



***2017-2021
Proposed
CAPITAL IMPROVEMENT PLAN
EQUIPMENT REPLACEMENT PLAN***

**CITY OF ARDEN HILLS
Council Work Session November 21, 2016**



DATE: November 21, 2016

TO: Honorable Mayor and City Council Members

FROM: Sue Iverson, Interim City Administrator/Director of Finance and Admin Svcs
Dave Perrault, Finance Analyst

SUBJECT: 2017 – 2021 Capital Improvement Program (CIP)

Action Requested

Provide feedback to staff on Proposed 2017 – 2021 CIP Plan.

Background

Annually the City prepares a five (5) year Capital Improvement Plan for budgeting and forecasting.

Discussion

The City Council previously met on July 18th, 2016 to discuss the preliminary CIP and provide feedback and changes. The following changes since the July meeting have been made:

- Requested changes by City Council at previous meeting
- County Road D and Shoreview Drive has been removed due to completion in 2016.
- The Ramsey County Emergency Management Equipment has been updated following a new quote received on November 14th for the necessary upgrades.

Public Works will also be providing a supplementary memo for Council review and comments.

Attachment

Attachment A: Capital Improvement Plan Book

City of Arden Hills, Minnesota

Capital Improvement Plan

2017 thru 2021

PROJECTS BY DEPARTMENT

| Department | Project# | Priority | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--|--------------|----------|------------------|------------------|------------------|------------------|----------------|------------------|
| Economic Development | | | | | | | | |
| Gateway Signs | 16-EDA-001 | n/a | 45,000 | 0 | | | | 45,000 |
| Economic Development Total | | | 45,000 | 0 | | | | 45,000 |
| Government Buildings | | | | | | | | |
| City Hall Maintenance | 17-Bldg-005 | 2 | 50,000 | | 25,000 | | 25,000 | 100,000 |
| Government Buildings Total | | | 50,000 | | 25,000 | | 25,000 | 100,000 |
| Parks Department | | | | | | | | |
| Playground Structure Replacement | 11-Park-003 | n/a | 65,000 | 125,000 | 120,000 | 45,000 | | 355,000 |
| Forestry Implementation Plan | 11-Park-004 | n/a | 5,000 | 5,000 | 5,000 | | | 15,000 |
| Development of TCAAP Park Facilities | 17-Park-001 | 3 | | 2,500,000 | 2,500,000 | 2,000,000 | | 7,000,000 |
| Hard Court Reconstruction | 18-Park-001 | 3 | 100,000 | 50,000 | 55,000 | 60,000 | | 265,000 |
| Parks Department Total | | | 170,000 | 2,680,000 | 2,680,000 | 2,105,000 | | 7,635,000 |
| Public Safety | | | | | | | | |
| LJFD Station Capital | 09-Pub-001 | n/a | 6,954 | 15,860 | 9,272 | | | 32,086 |
| LJFD Engine/Ladder Replacement | 17-Pub-001 | n/a | 172,020 | 15,128 | | | | 187,148 |
| LJFD Rescue/Chief/Utility Vehicle Replacement | 17-Pub-002 | n/a | 19,520 | | 45,140 | 50,752 | 24,400 | 139,812 |
| LJFD Radio Replacement | 17-Pub-003 | n/a | 16,348 | 16,348 | | | | 32,696 |
| LJFD Other Capital Equipment | 17-Pub-004 | n/a | 5,221 | 1,854 | 1,098 | | | 8,173 |
| County Emergency Siren Replacement | 17-Pub-005 | n/a | 28,000 | | | | | 28,000 |
| Public Safety Total | | | 248,063 | 49,190 | 55,510 | 50,752 | 24,400 | 427,915 |
| Sanitary Sewer Department | | | | | | | | |
| Sewer Lining/Rehabilitation | 09-Sew-002 | 3 | 400,000 | | 400,000 | | 400,000 | 1,200,000 |
| Reconstruct Lift Stations 11 | 10-Sew-003 | 3 | 10,000 | | | | | 10,000 |
| TCAAP Trunk Sanitary Sewer & Lift Station | 16-Sew-001 | 3 | 1,200,000 | | | | | 1,200,000 |
| Sanitary Sewer Department Total | | | 1,610,000 | | 400,000 | | 400,000 | 2,410,000 |
| Street Department | | | | | | | | |
| Hwy 96 and County Road F Sidewalk Improvement | 14-Str-002 | 3 | 425,000 | | | | | 425,000 |
| MnDOT Bridge Projects | 15-Str-061 | 3 | 100,000 | | | | | 100,000 |
| Hwy 96 Landscaping | 17-Str-003 | 4 | 300,000 | | | | | 300,000 |
| Old Snelling Ave including Bridge Reconstruction | 17-Str-004 | 3 | | | 1,750,000 | | | 1,750,000 |
| CR E Sidewalk and Old Hwy 10 Trail (Bethel) | 18-Str-003 | 3 | 400,000 | 1,000,000 | | | | 1,400,000 |
| Co Rd 96 Signal Maintenance | 18-Str-004 | 2 | | 6,000 | | | | 6,000 |
| Street Department Total | | | 1,225,000 | 1,006,000 | 1,750,000 | | | 3,981,000 |
| Surface Water Management Dept | | | | | | | | |
| Storm Pond Maintenance | 09-Storm-001 | 3 | 50,000 | 0 | 50,000 | | | 100,000 |

| Department | Project# | Priority | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---|--------------|----------|------------------|------------------|------------------|------------------|----------------|-------------------|
| Storm Water Inlet/Outlet Repairs | 13-Storm-001 | 3 | 25,000 | 0 | 25,000 | | | 50,000 |
| Storm Water BMP Study/Construction | 17-Storm-001 | 3 | 125,000 | | | | | 125,000 |
| Surface Water Management Dept Total | | | 200,000 | 0 | 75,000 | | | 275,000 |
| Technology | | | | | | | | |
| Springbrook Software Upgrades | 12-Tec-001 | n/a | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |
| Technology and Office Equipment | 12-Tec-002 | n/a | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |
| Communications Equipment | 12-Tec-003 | n/a | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 10,000 |
| Technology Total | | | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 60,000 |
| Water Department | | | | | | | | |
| Water Towers Repair and Repainting | 12-W-001 | 3 | 900,000 | | | | | 900,000 |
| Valve Replacement Program | 13-W-001 | 3 | 30,000 | 35,000 | 35,000 | 35,000 | 35,000 | 170,000 |
| Hydrant Replacement Program | 15-W-001 | 3 | 40,000 | | 40,000 | | 40,000 | 120,000 |
| TCAAP New Booster Station | 16-W-001 | 3 | 1,000,000 | | | | | 1,000,000 |
| TCAAP Trunk Water Improvements (Spine Road) | 16-W-002 | 3 | 1,000,000 | | | | | 1,000,000 |
| TCAAP Water Tower | 16-W-003 | 3 | | | | 4,800,000 | | 4,800,000 |
| CR E2 Water Replacement/Old Hwy 10 Water Loop | 17-W-001 | 4 | 400,000 | | | | | 400,000 |
| Water Department Total | | | 3,370,000 | 35,000 | 75,000 | 4,835,000 | 75,000 | 8,390,000 |
| GRAND TOTAL | | | 6,930,063 | 3,782,190 | 5,072,510 | 7,002,752 | 536,400 | 23,323,915 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Economic Development
 Contact Community Devl Dir
 Type Improvement
 Useful Life
 Category Economic Devl Improvement
 Priority n/a

Project # **16-EDA-001**
 Project Name **Gateway Signs**

Total Project Cost: \$45,000

Description

Install gateway signs at the major entrance points to the City. Potential locations for the signs include: (1) Highway 96 at Round Lake Boulevard and (2) at Lexington Avenue; (3) County Road E2 at I-35W; (4) County Road E at Highway 51 and (5) at Lexington Avenue; (6) County Road D at Cleveland Avenue (7) Lake Johanna Boulevard at the Roseville border; and (8) Lexington Avenue at the Roseville border. Potential sign locations are listed from north to south and are not in priority order.

The cost for a typical sign is \$25,000 per sign, including installation, lighting, and landscaping is estimated. Actual costs may be more or less depending on the amount of site improvements and/or landscaping that are necessary in a specific location.

The sign that is proposed for consideration in 2017 is at Lexington and Highway 96 and is estimated to cost approximately \$45,000.

The EDA General Fund balance includes approximately \$80,000 in reserves from previous transfers for Gateway signs.

Justification

Advance the economic development goals in the 2030 Comprehensive Plan. Implement the Guiding Plan for the B2 District. Work to better identify the entrance points to the City for businesses and visitors. Foster civic pride and community identity.

| Prior | Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|--------------------------|---------------|----------|------|------|------|---------------|
| 0 | Construction/Maintenance | 45,000 | 0 | | | | 45,000 |
| Total | Total | 45,000 | 0 | | | | 45,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-----------------|---------------|------|------|------|------|---------------|
| EDA Revenues | 45,000 | | | | | 45,000 |
| Total | 45,000 | | | | | 45,000 |

Budget Impact/Other

Annual maintenance costs for sign cleaning and care of landscaped beds surrounding the signs is estimated by the Public Works Department at \$500 per sign annually.

| Prior | Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|---------------------------|----------|------------|------------|------------|------------|--------------|
| 0 | Annual Maintenance Charge | 0 | 500 | 500 | 500 | 500 | 2,000 |
| Total | Total | 0 | 500 | 500 | 500 | 500 | 2,000 |

**Capital Improvement Plan
City of Arden Hills, Minnesota**

2017 thru 2021

Department Government Buildings
Contact Finance Director
Type Maintenance
Useful Life 10
Category Building Repair & Maint
Priority 2 Very Important

Project # **17-Bldg-005**
Project Name **City Hall Maintenance**

Total Project Cost: **\$100,000**

Description
City Hall will require ongoing maintenance and replacement of items to maintain operational duties.
Currently, the large condensing unit (main office) has developed a leak over the last three years, costing the city \$4,000 and \$4,500 in maintenance for 2015 and 2016 (ongoing), respectively. The two smaller condensing units (council chambers) have developed a leak this past spring, and will require replacement in the upcoming years.

Justification
These items are due for replacement, and will save the City future repair costs by replacing them in the near-term.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|------|---------------|------|---------------|----------------|
| Equip/Vehicles/Furnishings | 50,000 | | 25,000 | | 25,000 | 100,000 |
| Total | 50,000 | | 25,000 | | 25,000 | 100,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|---------------|------|---------------|------|---------------|----------------|
| Equipment/Building Replacement Fund | 50,000 | | 25,000 | | 25,000 | 100,000 |
| Total | 50,000 | | 25,000 | | 25,000 | 100,000 |

Budget Impact/Other

| Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Equipment and Vehicle repair costs | -3,000 | -3,000 | -3,000 | -3,000 | -3,000 | -15,000 |
| Total | -3,000 | -3,000 | -3,000 | -3,000 | -3,000 | -15,000 |

**Capital Improvement Plan
City of Arden Hills, Minnesota**

2017 thru 2021

Department Parks Department
Contact Park & Recreation Mgr
Type Improvement
Useful Life
Category Park Capital Equipment
Priority n/a

Project # **11-Park-003**
Project Name **Playground Structure Replacement**

Total Project Cost: **\$355,000**

Description

Play Structures are placed on a 20 year replacement pattern.

Justification

In order to maintain playground structures that meet current safety guidelines, require a minimum amount of maintenance, and have replacement parts available, a 20 year replacement schedule was established for play structures. The following is a list of play structures, the year they were constructed, the year they are scheduled to be replaced, and the anticipated replacement cost.

Hazelnut Park - 2017. This structure was last replaced in 1997. (\$65,000)
Freeway Park (\$45,000) & Cummings Park - 2018 (\$80,000). These structures were last replaced in 1998.
Arden Manor (\$75,000) & Arden Oaks (\$45,000) - 2019, These structures were last replaced in 1999.
Ingerson Park (\$45,000) - 2020, This structure was last replaced in 2000.

Includes removal of wood curbing and replacement with concrete curbing.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|---------------|----------------|----------------|---------------|------|----------------|
| Construction/Maintenance | 65,000 | 125,000 | 120,000 | 45,000 | | 355,000 |
| Total | 65,000 | 125,000 | 120,000 | 45,000 | | 355,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------------------------------|---------------|----------------|----------------|---------------|------|----------------|
| Capital Improvement Funds (PIR) | 65,000 | 125,000 | 120,000 | 45,000 | | 355,000 |
| Total | 65,000 | 125,000 | 120,000 | 45,000 | | 355,000 |

Budget Impact/Other

By replacing playground structures the City will see future cost savings by not having to purchase replacement parts for aging playground structures.

| Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------------------------------|-------------|-------------|-------------|-------------|-------------|---------------|
| Maintenance of Parks and Trails | -200 | -200 | -200 | -200 | -200 | -1,000 |
| Total | -200 | -200 | -200 | -200 | -200 | -1,000 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Parks Department
 Contact Park & Recreation Mgr
 Type Operational Maintenance
 Useful Life
 Category Park Capital Improvements
 Priority n/a

Project # **11-Park-004**
 Project Name **Forestry Implementation Plan**

Total Project Cost: **\$15,000**

Description
 With the Emerald Ash Borer identified in St. Paul in the spring of 2009, the studies show that the beetles will move out at a rate of one to two miles per year. Roseville found EAB in Langton Park and Northwestern has positive finds on both the Roseville and Arden Hills portion of campus. A positive tree was found in Sampson Park in the fall of 2013. Staff has included funding for extra removals and replacements that may be needed for Emerald Ash Borer.

Justification
 The City will have impacts to the Forestry with the Emerald Ash Borer Treatment, Removal and Replacement on the horizon.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|--------------|--------------|--------------|------|------|---------------|
| Construction/Maintenance | 5,000 | 5,000 | 5,000 | | | 15,000 |
| Total | 5,000 | 5,000 | 5,000 | | | 15,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------------------------------|--------------|--------------|--------------|------|------|---------------|
| Capital Improvement Funds (PIR) | 5,000 | 5,000 | 5,000 | | | 15,000 |
| Total | 5,000 | 5,000 | 5,000 | | | 15,000 |

Budget Impact/Other
 Removal and Replacement will be a large impact.

**Capital Improvement Plan
City of Arden Hills, Minnesota**

2017 thru 2021

Department Parks Department
Contact Public Works Director
Type Improvement
Useful Life 20
Category Park Capital Improvements
Priority 3 Important

Project # **17-Park-001**
Project Name **Development of TCAAP Park Facilities**

Total Project Cost: \$7,000,000

Description
This item is for the park development (not land acquisition) of park areas throughout TCAAP.

Justification
Ramsey County will be providing park land with the development of TCAAP but the City will be required to develop the parks. An estimate has been made of \$7.0 million for full build out of all the park areas according to the approved plan.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|-------------|------------------|------------------|------------------|-------------|------------------|
| Construction/Maintenance | | 2,500,000 | 2,500,000 | 2,000,000 | | 7,000,000 |
| Total | | 2,500,000 | 2,500,000 | 2,000,000 | | 7,000,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--|-------------|------------------|------------------|------------------|-------------|------------------|
| Park Capital Fund (Park Dedication Fees) | | 2,500,000 | 2,500,000 | 2,000,000 | | 7,000,000 |
| Total | | 2,500,000 | 2,500,000 | 2,000,000 | | 7,000,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Parks Department
 Contact Public Works Director
 Type Improvement
 Useful Life 20-25
 Category Park Capital Improvements
 Priority 3 Important

Project # **18-Park-001**
 Project Name **Hard Court Reconstruction**

Total Project Cost: \$265,000

Description
 The Maintenance Plan has placed the City's hard court play area's on a 5-7 year resurface schedule. Floral Park was last replaced in 2012. At that time, it was recommended that the City reconstruct that court in 5-6 years. There are structural cracks that cannot be corrected with a basic resurface. Hazelnut was resurfaced in 2013 and is scheduled to be reconstructed in 2019. Royal Hills was resurfaced in 2013 and is scheduled to be reconstructed in 2020. Johanna Marsh court was constructed in 1974 and is need of reconstruction, this is planned for 2017

Justification
 The cracks at Johanna Marsh, Floral Park, Hazelnut Park and Royal Hills cannot be resolved through a basic resurface. The court at Floral is surrounded by trees and roots are intruding into the playing surface. The constant leaves on the court and root intrusion reduces the life of this court. The City did root cutting and tree trimming/removal around the entire Floral court in 2012. This will help to keep the roots from continuing into the court area. Staff does not know the exact date the Floral court was built but estimates in the early 1980's. Johanna Marsh was built in 1974, Hazelnut was built in 1981 and Royal Hills in 1986. The court life is usally 25-30 years.
 Adjusted cost for Johanna Marsh and future projects 7/1/16 JMA
 Note: Added a court reconstruction to 2017 for Johanna Marsh. It was scheduled to be recoated in 2015 but the condition is such that recoating would be a not cost effective as the court should be reconstructed. The order of the courts planned to be reconstructed could be switched but all three should ultimately be done. 7/7/15 TJM

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|----------------|---------------|---------------|---------------|-------------|----------------|
| Construction/Maintenance | 100,000 | 50,000 | 55,000 | 60,000 | | 265,000 |
| Total | 100,000 | 50,000 | 55,000 | 60,000 | | 265,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------------------------------|----------------|---------------|---------------|---------------|-------------|----------------|
| Capital Improvement Funds (PIR) | 100,000 | 50,000 | 55,000 | 60,000 | | 265,000 |
| Total | 100,000 | 50,000 | 55,000 | 60,000 | | 265,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Public Safety
 Contact City Administrator
 Type Equipment
 Useful Life
 Category Public Safety
 Priority n/a

Project # **09-Pub-001**
 Project Name **LJFD Station Capital**

Total Project Cost: **\$32,086**

Description

Lake Johanna Fire Department provides a detailed capital budget which includes the costs to each City.

2017 - Firefighter lockers, replace furnace,
 Total Cost: \$28,500
 Arden Hills Cost: \$6,954

2018 - Repaint bay ceilings/walls, replace roof over bays.
 Total Cost: \$65,000
 Arden Hills Cost: \$15,860

2019 - Resurface bay floors
 Total Cost: \$38,000
 Arden Hills Cost: \$9,272

No costs projected past 2019

Justification

These expenditures are for:
 Station repairs, truck replacements and misc equipment.

More detailed explanations can be found in the Lake Johanna Capital Budget.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|--------------|---------------|--------------|-------------|-------------|---------------|
| Equip/Vehicles/Furnishings | 6,954 | 15,860 | 9,272 | | | 32,086 |
| Total | 6,954 | 15,860 | 9,272 | | | 32,086 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|--------------|---------------|--------------|-------------|-------------|---------------|
| Public Safety Capital Fund | 6,954 | 15,860 | 9,272 | | | 32,086 |
| Total | 6,954 | 15,860 | 9,272 | | | 32,086 |

Budget Impact/Other

There are no impacts to the operating budget of the City as it contracts for Fire Services from Lake Johanna Fire Department. Any savings as a result of this project would be reflected in the fire services contract in reduced building maintenance costs.

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Public Safety
 Contact City Administrator
 Type Equipment
 Useful Life
 Category Public Safety
 Priority n/a

Project # **17-Pub-001**
 Project Name **LJFD Engine/Ladder Replacement**

Total Project Cost: \$187,148

Description
 Lake Johanna Fire Department provides the City with a Capital Budget each year outlining expected capital outflows, the fire department has budgeted for the replacement of a fire engine in future years.
 Total Cost: \$705,000
 Arden Hills Cost: \$172,020

Justification
 These expenditures are for:
 Station repairs, truck replacements and misc equipment.
 More detailed explanations can be found in the Lake Johanna Capital Budget.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|----------------|---------------|------|------|------|----------------|
| Equip/Vehicles/Furnishings | 172,020 | 15,128 | | | | 187,148 |
| Total | 172,020 | 15,128 | | | | 187,148 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|----------------|---------------|------|------|------|----------------|
| Public Safety Capital Fund | 172,020 | 15,128 | | | | 187,148 |
| Total | 172,020 | 15,128 | | | | 187,148 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Public Safety
 Contact City Administrator
 Type Equipment
 Useful Life
 Category Public Safety
 Priority n/a

Project # **17-Pub-002**
 Project Name **LJFD Rescue/Chief/Utility Vehicle Replacement**

Total Project Cost: \$139,812

Description

Lake Johanna Fire Department provides the City with a Capital Budget each year outlining expected capital outflows, the fire department has budgeted for the replacement of a Rescue/Chief/Utility vehicles in future years.

2017
 Total Cost: \$80,000
 Arden Hills Cost: \$19,520

2019
 Total Cost: \$185,000
 Arden Hills Cost: \$45,140

2020
 Total Cost: \$208,000
 Arden Hills Cost: \$50,752

2021
 Total Cost: \$100,000
 Arden Hills Cost: \$24,400

Justification

These expenditures are for:
 Station repairs, truck replacements and misc equipment.

More detailed explanations can be found in the Lake Johanna Capital Budget.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|------|---------------|---------------|---------------|----------------|
| Equip/Vehicles/Furnishings | 19,520 | | 45,140 | 50,752 | 24,400 | 139,812 |
| Total | 19,520 | | 45,140 | 50,752 | 24,400 | 139,812 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|------|---------------|---------------|---------------|----------------|
| Public Safety Capital Fund | 19,520 | | 45,140 | 50,752 | 24,400 | 139,812 |
| Total | 19,520 | | 45,140 | 50,752 | 24,400 | 139,812 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Public Safety
 Contact City Administrator
 Type Equipment
 Useful Life
 Category Public Safety
 Priority n/a

Project # **17-Pub-003**
 Project Name **LJFD Radio Replacement**

Total Project Cost: **\$32,696**

Description

Lake Johanna Fire Department provides the City with a Capital Budget each year outlining expected capital outflows, the fire department has budgeted for the replacement of Portable Radios in 2017 and 2018.

2017
 Total Cost: \$67,000
 Arden Hills Cost: \$16,348

2018
 Total Cost: \$67,000
 Arden Hills Cost: \$16,348

Justification

These expenditures are for:
 Station repairs, truck replacements and misc equipment.

More detailed explanations can be found in the Lake Johanna Capital Budget.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|---------------|-------------|-------------|-------------|---------------|
| Equip/Vehicles/Furnishings | 16,348 | 16,348 | | | | 32,696 |
| Total | 16,348 | 16,348 | | | | 32,696 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|---------------|-------------|-------------|-------------|---------------|
| Public Safety Capital Fund | 16,348 | 16,348 | | | | 32,696 |
| Total | 16,348 | 16,348 | | | | 32,696 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Public Safety
 Contact City Administrator
 Type Equipment
 Useful Life
 Category Public Safety
 Priority n/a

Project # **17-Pub-004**
 Project Name **LJFD Other Capital Equipment**

Total Project Cost: \$8,173

Description

Lake Johanna Fire Department provides the City with a Capital Budget each year outlining expected capital outflows, below shows what the fire department expects to spend on other capital equipment in the upcoming years.

2017
 Tire Replacement
 Computer Replacement
 Saw Replacement
 Mobile CAD
 Total Cost: \$21,400
 Arden Hills Cost: \$5,221

2018
 Computer Replacement
 Replace AED's
 Total Cost: \$7,600
 Arden Hills Cost: \$1,854

2019
 SCBA Bottle Test
 Total Cost: \$4,500
 Arden Hills Cost: \$1,098

Justification

These expenditures are for:
 Station repairs, truck replacements and misc equipment.

More detailed explanations can be found in the Lake Johanna Capital Budget.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|--------------|--------------|--------------|-------------|-------------|--------------|
| Equip/Vehicles/Furnishings | 5,221 | 1,854 | 1,098 | | | 8,173 |
| Total | 5,221 | 1,854 | 1,098 | | | 8,173 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|--------------|--------------|--------------|-------------|-------------|--------------|
| Public Safety Capital Fund | 5,221 | 1,854 | 1,098 | | | 8,173 |
| Total | 5,221 | 1,854 | 1,098 | | | 8,173 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Public Safety
 Contact Finance Director
 Type Equipment
 Useful Life
 Category Public Safety
 Priority n/a

Project # 17-Pub-005
 Project Name **County Emergency Siren Replacement**

Total Project Cost: \$28,000

Description
 Ramsey County is planning on replacing emergency sirens, costs updated per Ramsey County on 11/14/2016. The current equipment will need to be upgraded in order to remain compatible with Ramsey County as they update their equipment. The updates include radios, antennas, accessory equipment needed to operate the new emergency system.

Justification
 Ramsey County is planning on replacing emergency sirens, costs updated per Ramsey County on 11/14/2016. DP

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|-------------|-------------|-------------|-------------|---------------|
| Equip/Vehicles/Furnishings | 28,000 | | | | | 28,000 |
| Total | 28,000 | | | | | 28,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|-------------|-------------|-------------|-------------|---------------|
| Public Safety Capital Fund | 28,000 | | | | | 28,000 |
| Total | 28,000 | | | | | 28,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Sanitary Sewer Department
 Contact Public Works Director
 Type Maintenance
 Useful Life 30
 Category Sanitary Sewer Maintenance
 Priority 3 Important

Project # **09-Sew-002**
 Project Name **Sewer Lining/Rehabilitation**

Total Project Cost: **\$3,200,000**

Description
 Sewer Lining and Rehabilitation.
 Note: Increased 2013 amount to 500,000 because there will likely be another round of I&I elimination grants from MCES. Will not use addition dollars unless they can be leveraged for grant monies. 5/21/12 TJM
 Note: An analysis of our system shows that we still have approximately 18 miles (40%) that are old clay lines subject to infiltration and root intrusion. It was estimated it would cost \$3,500,000 to line all of these clay lines over the next 20 years. Estimated expenditures have been extended for 20 years to reflect this cost. 10/1/12 TJM
 The City is expected to receive \$60,000 in grant revenue for 2017 per Public Works.

Justification
 As part of our sanitary sewer program, lines found with holes and cracks allowing for infiltration should be lined or repaired as needed. As the sewer infrastructure is aging, we should plan for a rehabilitation project on an annual basis.
 2016 estimates show a remaining need of 1.6 to 2.2 million. Set a funding level of \$400K every 2 years JMA 7/14/16

| Prior | Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total | Future |
|--------------|--------------------------|----------------|------|----------------|------|----------------|------------------|--------------|
| 1,200,000 | Construction/Maintenance | 400,000 | | 400,000 | | 400,000 | 1,200,000 | 800,000 |
| Total | Total | 400,000 | | 400,000 | | 400,000 | 1,200,000 | Total |

| Prior | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total | Future |
|--------------|-----------------------------|----------------|------|----------------|------|----------------|------------------|--------------|
| 1,200,000 | Sanitary Sewer Utility Fund | 400,000 | | 400,000 | | 400,000 | 1,200,000 | 800,000 |
| Total | Total | 400,000 | | 400,000 | | 400,000 | 1,200,000 | Total |

Budget Impact/Other
 This project will help the overall I&I reduction program. Savings are estimated at this time based on part of the surcharge fees for I&I by the Metropolitan Council.

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Sanitary Sewer Department

Contact Public Works Director

Type Improvement

Useful Life 20-25

Category Utility Improvements

Priority 3 Important

Project # **10-Sew-003**
 Project Name **Reconstruct Lift Stations 11**

Total Project Cost: **\$253,100**

Description

Project to replace lift stations 11 (1861 Highway 96) . The average life expectancy for a lift station is 25 years. New pumps and electrical panels would be installed. The new pumps and panels would be compatible with the other 14 lift stations located throughout the City.

Engineering/Design already completed, however, a review should be completed to ensure no design modifications are needed.

Note: Due to the 10/96 interchange construction LS 11 was not rebuilt, only LS 13 was authorized. It was designed in 2011 and will be built in 2012. Funding has been changed to reflect the change in project scope and LS 11 reconstruction will be added back into a later year. 5/21/12 TJM

Lift Station #11 may be impacted by the Highway 10/County Rd 96 improvement project, scheduled for 2011.

LS 11 was not impacted by the 10/96 project, nor was it possible to eliminate LS 11 because of the materials under Hwy 96 not supporting a gravity pipe to flow to RLR. LS 11 reconstruction will be put back in the CIP in 2015 4/22/14 TJM

Note: 7/21/14 Council Worksession moved to 2016 to help balance yearly expenditures.

Justification

The lift stations are over 40 years old and in need of replacement.

| Prior | Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|--------------------------|---------------|------|------|------|------|---------------|
| 243,100 | Construction/Maintenance | 10,000 | | | | | 10,000 |
| Total | Total | 10,000 | | | | | 10,000 |

| Prior | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|----------------------------------|---------------|------|------|------|------|---------------|
| 243,100 | Surface Water Mgmt Utility Funds | 10,000 | | | | | 10,000 |
| Total | Total | 10,000 | | | | | 10,000 |

Budget Impact/Other

As this project is completed in 2017, the bulk of the work having been done in 2016, the City will realize cost savings with reduced maintenance costs that would normally be attributed to this lift station.

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Sanitary Sewer Department
 Contact Public Works Director
 Type Improvement
 Useful Life 30
 Category Utility Improvements
 Priority 3 Important

Project # **16-Sew-001**
 Project Name **TCAAP Trunk Sanitary Sewer & Lift Station**

Total Project Cost: \$1,200,000

Description
 As the TCAAP site develops it will be served by a trunk sanitary sewer system and a lift station that collects all of TCAAP sewer flow (only TCAAP flow) and carries it through Mounds View to a MCES regional lift station.

Justification
 As Ramsey County starts to develop TCAAP infrastructure the City's sanitary sewer system will be placed in the Spine Road right-of-way.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|------------------|-------------|-------------|-------------|-------------|------------------|
| Construction/Maintenance | 1,200,000 | | | | | 1,200,000 |
| Total | 1,200,000 | | | | | 1,200,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|------------------------|------------------|-------------|-------------|-------------|-------------|------------------|
| TCAAP Reimbursements | 1,200,000 | | | | | 1,200,000 |
| Total | 1,200,000 | | | | | 1,200,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Street Department
 Contact Public Works Director
 Type Improvement
 Useful Life 30
 Category Streets:Misc
 Priority 3 Important

Project # **14-Str-002**
 Project Name **Hwy 96 and County Road F Sidewalk Improvement**

Total Project Cost: \$475,000

Description

In 2013 Ramsey County and MnDOT are completing Hwy 96 from approximately North Heights Church westerly to Round Lake Road. That improvement will have a bituminous trail on the south side and a concrete sidewalk on the north side. The previous Hwy 96 improvement did not extend sidewalk on the north side west of Hamline Avenue. Therefore, when the 2013 improvement is complete there will be a gap in the sidewalk on the north side from Hamline Avenue to approximately the entrance to North Heights Church (3600 Feet)

Note: with the construction on the 10/96 project carrying over into the summer of 2014 this sidewalk project is being delayed until 2015 so as not to cause more traffic problems. It will also be combined with the sidewalk fill in project on County Road F between Hamline and Lexington. There is a gap in the sidewalk from the new apartment building (Arden Village) to Hamline of approximately 600 feet.

Note: 7/21/14 Council Work Session moved to 2016 to be combine with the TCAAP spine road construction

Justification

Completing the sidewalk on the north side of Hwy 96 will make a continuous trail on the north side of Hwy 96 from West Round Lake Road easterly to the City of White Bear Lake.

The Ramsey County Cost Participation Policy states that the County will pay half the construction cost on new sidewalk along their roadways with the City paying the other half plus overhead costs.

| Prior | Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|--------------------------|----------------|------|------|------|------|----------------|
| 50,000 | Construction/Maintenance | 425,000 | | | | | 425,000 |
| Total | Total | 425,000 | | | | | 425,000 |

| Prior | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|--------------------|----------------|------|------|------|------|----------------|
| 50,000 | Ramsey County-CSAH | 150,000 | | | | | 150,000 |
| | State Aid Funds | 275,000 | | | | | 275,000 |
| Total | Total | 425,000 | | | | | 425,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Street Department
 Contact Public Works Director
 Type Improvement
 Useful Life 30
 Category Streets:Misc
 Priority 3 Important

Project # **15-Str-061**
 Project Name **MnDOT Bridge Projects**

Total Project Cost: \$1,000,000

Description

Mn/DOT has programmed the replacement of several bridges within or on the border of Arden Hills. These include the following bridges with the MnDOT plan year of construction.

2015 County Road E bridge over TH 51
 2015 TH 96 Interchange at 35W
 2015 County Road F (Lake Valentine Rd) bridge over 35W
 2016 County Road E2 interchange at 35W
 2016 County Road H Interchange at 35W

Generally MnDOT's policy is to provide pedestrian facilities on one side of new bridges. If the City(s) and/or County request pedestrian facilities on both sides on the bridge that cost is paid by the City and County. The County's cost participation policy states that for these types of projects the cost is split 50% County and 50% City(s)

Justification

Since these bridge projects are built for 50 to 75 years it may be prudent to carefully consider the addition of pedestrian facilities on both sides of the bridge.

Estimated City share for each of these bridge s is listed below. The estimates are based on the County cost participation policy of 50% County and 50% City(s). These estimates can be further redefined as each structure goes through the layout phase to determine the style of interchange and the length of bridge. The estimates are as follows:

| | |
|-------------------------------------|-----------|
| County Road E Bridge over TH 51 | \$250,000 |
| Hwy 96 Interchange at 35W | \$250,000 |
| County Road F Bridge over 35W | \$250,000 |
| County Raod E2 Interchange with 35W | \$250,000 |
| County Road H Interchange with 35W | \$250,000 |

| Prior | Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|--------------------------|----------------|------|------|------|------|----------------|
| 900,000 | Construction/Maintenance | 100,000 | | | | | 100,000 |
| Total | Total | 100,000 | | | | | 100,000 |

| Prior | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|-----------------|----------------|------|------|------|------|----------------|
| 900,000 | State Aid Funds | 100,000 | | | | | 100,000 |
| Total | Total | 100,000 | | | | | 100,000 |

Budget Impact/Other

When the bridge is reconstructed with pedestrian facilities the City may be responsible for snow removal acitivities for the these facilities.

| Prior | Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|---------------------------|------------|------------|------------|------------|------------|--------------|
| 400 | Annual Maintenance Charge | 400 | 400 | 400 | 400 | 400 | 2,000 |
| Total | Total | 400 | 400 | 400 | 400 | 400 | 2,000 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Street Department
 Contact Park & Recreation Mgr
 Type Improvement
 Useful Life 20-25
 Category Streets:Misc
 Priority 4 Less Important

Project # **17-Str-003**
 Project Name **Hwy 96 Landscaping**

Total Project Cost: **\$300,000**

Description
 MnDot and Ramsey County grade separated US 10/Hwy 96 in 2013/2014 and reconstructed the I-35W/Hwy 96 Interchange in 2015/2016. These projects created several new medians and boulevard areas that have not been landscaped as the remainder of the Hwy 96 corridor is through Arden Hills

Justification
 This work will complete the landscaping of the Hwy 96 corridor in Arden Hills

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|----------------|-------------|-------------|-------------|-------------|----------------|
| Construction/Maintenance | 300,000 | | | | | 300,000 |
| Total | 300,000 | | | | | 300,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------------------------------|----------------|-------------|-------------|-------------|-------------|----------------|
| Capital Improvement Funds (PIR) | 300,000 | | | | | 300,000 |
| Total | 300,000 | | | | | 300,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Street Department
 Contact Public Works Director
 Type Improvement
 Useful Life 20-25
 Category Streets: Reconstruction
 Priority 3 Important

Project # 17-Str-004
 Project Name Old Snelling Ave including Bridge Reconstruction

Total Project Cost: \$1,750,000

Description

The existing roadway has a minimal storm water management system in place. Records indicate that Snelling Avenue was crack sealed and seal coated in 1996. City staff will televise the utility lines to determine the extent of any necessary repairs.

A preliminary Scoping Document was prepared in December 2010. Several options for reconstruction were discussed. No major sanitary sewer or water problems were identified. There is a bridge at the south end that will need to be replaced at the same time. Final bridge plans have been completed and are submitted to MnDOT requesting Bridge Bonding funds

Snelling Ave (Co Rd E - TH51)

Estimated Residential Equivalent Units: 24

2005 AADT: 1650
 2009 AADT: 950

Note: Council authorized Bridge final plans in late 2011, in March 2012 Council decided street and bridge should be done together after Bridge Bonding Funds are secured. Earliest this could be accomplished is in 2013. 5/21/12 TJM

Bridge Bonding request submitted July of 2015 since won't be rebuilt at least until after 2015 replacement of CR E bridge over TH 51. TJM

Cummings Lane and Hamline Ave. north of Co. Rd. E could be easily added to this project for reclaiming of the road surface.

Justification

Records indicate Snelling Avenue was crack sealed and sealcoated in 1996. The existing roadway currently has a minimal storm water management system in place.

Snelling from TH51 to Co Rd E, 2005 PCI = 34, 2008 PCI = 31, 2011 PCI= (Increase due to heavy patching)

Utilities
 Watermain - no history of problems
 Sanitary Sewer - no history of problems, install chimney seals on all manholes; correct any I&I deficiencies.
 Storm Sewer - project must meet Rice Creek Watershed District requirements; improvements will improve water quality to Lake Johanna.

In order to better understand the project costs for this road segment, staff completed a field survey and some preliminary analysis for this project in 2010. Results of the survey and knowledge of existing conditions will assist in determining potential rehabilitation measures and associated construction cost estimates. The level of improvement will determine the storm water requirements.

Although this roadway has a low ADT it will likely be a significant detour when the CR E bridge is replaced in 2014 or 2015. In its current condition Snelling Ave will not likely hold up under increase traffic during the CR E bridge replacement. This segment is also listed as a PTRC high priority for a detached trail (Segment I).

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|------|------|------------------|------|------|------------------|
| Construction/Maintenance | | | 1,750,000 | | | 1,750,000 |
| Total | | | 1,750,000 | | | 1,750,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------------------------------|------|------|---------|------|------|---------|
| Capital Improvement Funds (PIR) | | | 250,000 | | | 250,000 |
| Grant Revenue | | | 125,000 | | | 125,000 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Street Department
 Contact Public Works Director

| | | |
|----------------------------------|------------------|------------------|
| State Aid Funds | 1,325,000 | 1,325,000 |
| Surface Water Mgmt Utility Funds | 50,000 | 50,000 |
| Total | 1,750,000 | 1,750,000 |

Budget Impact/Other

The street has deteriorated past the point where other forms of maintenance are cost-effective. Long-term, reconstruction will provide a consistent roadway section that will reduce costs associated with patching potholes and other pavement failures. Monitoring/maintenance will be required for new stormwater features that are not resident-maintained rain gardens.

Anticipated costs included here are for a Municipal State Aid fundable street rural reconditioning/reconstruction, bridge replacement and detached trail.

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Street Department
 Contact Public Works Director
 Type Improvement
 Useful Life 20-25
 Category Streets:Misc
 Priority 3 Important

Project # **18-Str-003**
 Project Name **CR E Sidewalk and Old Hwy 10 Trail (Bethel)**

Total Project Cost: \$1,400,000

Description
 Construct a sidewalk along CR E (side to be determined) from TH 51 Bridge to Old Hwy 10 and then a detached trail along the west side of Old Hwy 10 from County Road E to Bethel University's main entrance.
 Construction of the trail along Old Hwy 10 will need to be studied to determine to most cost-effective type of construction especially in areas of wetlands (detached boardwalk, shoulder of Old Hwy 10, urbanize a portion of Old Hwy 10 and construct trail immediately behind the curb).

Justification
 In 2013 Bethel University received a CUP for using the Country Financial building. As part of that CUP negotiation Bethel agreed to \$800,000 towards the trail over the years 2016-2023. The City committed in the CUP to having the trail from CR E/TH 51 over to Old Hwy 10 and then north along the west side of Old Hwy 10 to Bethel's main entrance by the end of 2018.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|----------------|------------------|------|------|------|------------------|
| Planning/Design | 400,000 | | | | | 400,000 |
| Construction/Maintenance | | 1,000,000 | | | | 1,000,000 |
| Total | 400,000 | 1,000,000 | | | | 1,400,000 |

| Prior | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total | Future |
|--------------|------------------------------------|----------------|----------------|----------------|----------------|----------------|------------------|--------------|
| 50,000 | Capital Improvement Funds (PIR) | 300,000 | | | | | 300,000 | 300,000 |
| Total | Donations/Developer Reimbursements | 50,000 | 100,000 | 100,000 | 100,000 | 100,000 | 450,000 | Total |
| | Ramsey County-CSAH | | 300,000 | | | | 300,000 | |
| | Total | 350,000 | 400,000 | 100,000 | 100,000 | 100,000 | 1,050,000 | |

Budget Impact/Other
 Between the contribution from Bethel University and the Ramsey County Cost Participation Policy there should be sufficient funds to construct the project. The City will likely be responsible for the design and interim funding until Bethel's full contribution is accomplished in 2021.

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Street Department
Contact Public Works Director
Type Maintenance
Useful Life 10-12
Category Streets:Misc
Priority 2 Very Important

Project # 18-Str-004
Project Name Co Rd 96 Signal Maintenance

Total Project Cost: \$6,000

Description
 Traffic Signal painting of signals at County Road 96 and Hamline and County Road 96 and Lexington.

Justification
 Maintenance of paint systems on traffic signals are the responsibility of the local jurisdiction. The paint maintenance on the signal at Hamline Avenue and Co Rd 96 is 100% Arden Hills. The paint maintenance on the signal at Co Rd 96 and Lexington Avenue is split 50% by Arden Hills and 50% by Shoreview.
 Ramsey county is working to organize signal painting along this corridor and allow cities to participate in a collective effort to contract for this work in 2018.
 The signals were installed in 2006

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|-------------|--------------|-------------|-------------|-------------|--------------|
| Construction/Maintenance | | 6,000 | | | | 6,000 |
| Total | | 6,000 | | | | 6,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------------------------------|-------------|--------------|-------------|-------------|-------------|--------------|
| Capital Improvement Funds (PIR) | | 6,000 | | | | 6,000 |
| Total | | 6,000 | | | | 6,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Surface Water Management D
 Contact Public Works Director
 Type Maintenance
 Useful Life 20-25
 Category Storm Water Maintenance
 Priority 3 Important

Project # **09-Storm-001**
 Project Name **Storm Pond Maintenance**

Total Project Cost: \$200,000

Description
 Development of a maintenance plan to be implemented to meet MPCA SWPPP requirements.
 Due to new regulations from the MPCA regarding disposal of materials removed from ponds, staff is reviewing best management practices and costs related to these types of projects.

Justification
 Storm pond cleaning and rehabilitation projects to meet surface water quality requirements.

| Prior | Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------|--------------------------|---------------|----------|---------------|------|------|----------------|
| 100,000 | Construction/Maintenance | 50,000 | 0 | 50,000 | | | 100,000 |
| | Total | 50,000 | 0 | 50,000 | | | 100,000 |

| Prior | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------|----------------------------------|---------------|----------|---------------|------|------|----------------|
| 100,000 | Surface Water Mgmt Utility Funds | 50,000 | 0 | 50,000 | | | 100,000 |
| | Total | 50,000 | 0 | 50,000 | | | 100,000 |

Budget Impact/Other
 There are no operational impacts associated with this project at this time.

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Surface Water Management D
Contact Public Works Director
Type Maintenance
Useful Life 15-17
Category Storm Water Maintenance
Priority 3 Important

Project # 13-Storm-001
Project Name Storm Water Inlet/Outlet Repairs

Total Project Cost: \$100,000

Description

One of the requirements of the City's MS4 permit is to annually inspect 20% of the inlets/outlets in our stormwater system. The City actually inspected 100% of them in the final year (2011) of our first MS4 permit. Many are in disrepair and need to be fixed.

Justification

To maintain our storm drainage system annually the City should undertake the repair of inlets/outlets and other erosion issues that are found throughout the system.

| Prior | Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|--------------------------|---------------|----------|---------------|------|------|---------------|
| 50,000 | Construction/Maintenance | 25,000 | 0 | 25,000 | | | 50,000 |
| Total | Total | 25,000 | 0 | 25,000 | | | 50,000 |

| Prior | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|----------------------------------|---------------|----------|---------------|------|------|---------------|
| 50,000 | Surface Water Mgmt Utility Funds | 25,000 | 0 | 25,000 | | | 50,000 |
| Total | Total | 25,000 | 0 | 25,000 | | | 50,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Surface Water Management D

Contact Public Works Director

Type Unassigned

Useful Life

Category Storm Water Maintenance

Priority 3 Important

Project # **17-Storm-001**
 Project Name **Storm Water BMP Study/Construction**

Total Project Cost: **\$175,000**

Description

Comprehensive study of water quality BMP needs throughout the City and opportunities to implement BMP that can improve water quality. In 2009 the Rice Creek Watershed District prepared a report titled Karth Lake Management Action Plan. The report identified Best Management Practices (BMP) that would help continue to improve the quality of lake water. This item would implement BMP #1 which would provide treatment for the runoff entering the south end of the lake from the industrial properties.

Justification

The City's NPDES permit requires that the City works to develop a program to address storm water quality. A number of water bodies the City of Arden Hills drains to are impaired and have or are in the process of creating a TMDL (total maximum daily load) for those waterbodies. Moving forward the City will be required to meet the terms laid out in the TMDL plan for the waterbody. This study would be able to identify where the greatest needs for BMPs are and help prioritize projects as they are identified. Karth Lake Improvement District has been very active in monitoring and improving the quality of water in Karth Lake. This item was identified by a RCWD report as a BMP that would improve the quality of runoff from the south end of the lake. The industrial properties in that area currently have no treatment of runoff before it enters Karth Lake.

| Prior | Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|--------------------------|----------------|------|------|------|------|----------------|
| 50,000 | Construction/Maintenance | 125,000 | | | | | 125,000 |
| Total | Total | 125,000 | | | | | 125,000 |

| Prior | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|----------------------------------|----------------|------|------|------|------|----------------|
| 50,000 | Surface Water Mgmt Utility Funds | 125,000 | | | | | 125,000 |
| Total | Total | 125,000 | | | | | 125,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Technology
 Contact Finance Director
 Type Technology
 Useful Life
 Category Equipment: Office
 Priority n/a

Project # **12-Tec-001**
 Project Name **Springbrook Software Upgrades**

Total Project Cost: \$25,000

Description
 The Finance Suite was upgraded in 2010 to the .Net version of the software. The City purchased Springbrook software in 2001-2002. In 2011-2014 we have been implementing the Human Resource module and the Central Services modules. As future enhancements are available we will be implementing this as well as upgrading the software, future modules include Project Management, licensing, business analytics, and dashboards.

Justification
 The current software was purchased in 2001-2002. Updating the software as updates become available continue to help us streamline our processes and tighten internal controls. As new technology becomes available - we need to update our systems to be able to function as the old software does not run on the older versions of operating systems and they are not supported. Updates were done in 2010 and we are still implementing some of those updates as they were not completely finished by the vendor or we had not had the staff time to implement. New enhancements to keep up to current technology are continuous.
 Funding will come from the Equipment Building and Replacement Fund but operating transfers will be made from each of the enterprise funds (Water, Sewer & Surface Water) to account for their cost of the software. This is consistent with the support and maintenance fee charges in the operating budget.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Technology | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |
| Total | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Equipment/Building Replacement Fund | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |
| Total | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |

Budget Impact/Other
 While there is no hard concrete cost savings, it will provide greater reporting capabilities, reduce staff time spent on running reports as this software will allow for department access to monitor activity. Future costs and efficiency can be achieved by eventually consolidating all City services to one software system, thus eliminating paper flow and double entry.
 Annual maintenance fees for the new modules will be added as we add modules.

| Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------------------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Annual Maintenance Charge | 2,700 | 2,880 | 2,995 | 3,010 | 3,500 | 15,085 |
| Total | 2,700 | 2,880 | 2,995 | 3,010 | 3,500 | 15,085 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Technology
 Contact Finance Director
 Type Technology
 Useful Life
 Category Equipment: Office
 Priority n/a

Project # 12-Tec-002
 Project Name Technology and Office Equipment

Total Project Cost: \$25,000

Description
 Equipment replacement of copiers, computers, and other various equipment and software. As technology advances, so does software and machines. New licenses must be purchased to upgrade and we must upgrade to stay compatible with other systems we integrate with at other levels, for example, website, CTV, State Auditor's Office, etc.

Justification
 Maintenance on all office equipment, computers, and machines plus software upgrades as old operating systems are no longer supported, we are forced to upgrade our systems, some printers and print drivers will no longer work with current equipment in this ever-changing environment.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Equip/Vehicles/Furnishings | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |
| Total | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Equipment/Building Replacement Fund | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |
| Total | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |

Budget Impact/Other
 None

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Technology
 Contact Finance Director
 Type Technology
 Useful Life
 Category Equipment: Office
 Priority n/a

Project # **12-Tec-003**
 Project Name **Communications Equipment**

Total Project Cost: **\$10,000**

Description
 Replace and upgrade audio visual and communications equipment as necessary with CTV, website, and in Council Chambers..

Justification
 Communicate information to residents and businesses in a manner and format that is up-to-date, efficient, and professional.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Technology | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 10,000 |
| Total | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 10,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Special Revenue Cable Fund | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 10,000 |
| Total | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 10,000 |

Budget Impact/Other
 Annual equipment maintenance of \$3,000 is currently included in the Cable Fund budget. No additional impact at this time.

| Prior | Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|---------------------------|----------|------|------|------|------|----------|
| 0 | Annual Maintenance Charge | 0 | | | | | 0 |
| Total | Total | 0 | | | | | 0 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Water Department
 Contact Public Works Director
 Type Operational Maintenance
 Useful Life 15-17
 Category Utility Maintenance
 Priority 3 Important

Project # **12-W-001**
 Project Name **Water Towers Repair and Repainting**

Total Project Cost: \$900,000

Description

The City has two water towers; a 500,000 gallon north tower and a 1,000,000 gallon south tower. Based on a 2005 inspection report some improvements are needed at the south tower. The north tower was last inspected in 2000 and repairs were undertaken in 2001.

In 2012 both water towers were inspected inside and outside using the "float down" method by Kollmer Consultants, inc of Stacy MN. Based upon these inspections the recommendation is to make minor structural modifications to each of towers together with a complete stripping of the existing paint and a full repainting. Kollmer recommended that the south water tower be completed in the next 1 to 2 years and the north water tower be completed in the next 2 to 3 years.

Note: 7/21/14 Council Worksession moved to 2016 due to TCAAP workload in 2015.
 Note: 6/4/15 Increased Cost to \$900K due to rising construction costs

Justification

In order to proceed with the repairs at the both towers plans and specs need to be prepared based on most recent inspection of the towers by Kollmer Consultants in 2012.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|----------------|-------------|-------------|-------------|-------------|----------------|
| Construction/Maintenance | 900,000 | | | | | 900,000 |
| Total | 900,000 | | | | | 900,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|------------------------|----------------|-------------|-------------|-------------|-------------|----------------|
| Water Utility Funds | 900,000 | | | | | 900,000 |
| Total | 900,000 | | | | | 900,000 |

Budget Impact/Other

**Capital Improvement Plan
City of Arden Hills, Minnesota**

2017 thru 2021

Department Water Department
Contact Public Works Director
Type Unassigned
Useful Life 30
Category Utility Maintenance
Priority 3 Important

Project # **13-W-001**
Project Name **Valve Replacement Program**

Total Project Cost: **\$750,000**

Description
Much of the City's water system was built in the 1960's through 1980's and with the City's "hot soils" there have been many failure of valves in the water system. Failures have ranged from deteriorated bolts to mechanical failure. Most valves have been replaced on an emergency basis thus far. This item is an attempt at planning for a certain amount of valve repair/repalcement on an annual basis. It is estimated that over the next 20 years as many as 175 existing valves will need to be repaired/replaced in our system. It is also estimated that the cost per valve will average \$4000 per valve over the 20 years.

Justification

| Prior | Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total | Future |
|--------------|--------------------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------|
| 120,000 | Construction/Maintenance | 30,000 | 35,000 | 35,000 | 35,000 | 35,000 | 170,000 | 460,000 |
| Total | Total | 30,000 | 35,000 | 35,000 | 35,000 | 35,000 | 170,000 | Total |

| Prior | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total | Future |
|--------------|---------------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------|
| 120,000 | Water Utility Funds | 30,000 | 35,000 | 35,000 | 35,000 | 35,000 | 170,000 | 460,000 |
| Total | Total | 30,000 | 35,000 | 35,000 | 35,000 | 35,000 | 170,000 | Total |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Water Department
 Contact Public Works Director
 Type Unassigned
 Useful Life 30
 Category Utility Maintenance
 Priority 3 Important

Project # 15-W-001
 Project Name Hydrant Replacement Program

Total Project Cost: \$400,000

Description
 The City's water system contains approximately 600 hydrants. It is reasonable to expect over the next 20 years some of those hydrants will need to be replaced. Assuming two per year over the next 20 years would mean that 40 hydrants would be replaced; some of these would be with PMP projects. Each replaced hydrant is estimated to cost \$10,000.

Justification

| Prior | Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total | Future |
|--------|--------------------------|---------------|------|---------------|------|---------------|----------------|--------------|
| 40,000 | Construction/Maintenance | 40,000 | | 40,000 | | 40,000 | 120,000 | 240,000 |
| | Total | 40,000 | | 40,000 | | 40,000 | 120,000 | Total |

| Prior | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total | Future |
|--------|---------------------|---------------|------|---------------|------|---------------|----------------|--------------|
| 40,000 | Water Utility Funds | 40,000 | | 40,000 | | 40,000 | 120,000 | 240,000 |
| | Total | 40,000 | | 40,000 | | 40,000 | 120,000 | Total |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Water Department
 Contact Public Works Director
 Type Improvement
 Useful Life 30
 Category Utility Improvements
 Priority 3 Important

Project # 16-W-001
 Project Name TCAAP New Booster Station

Total Project Cost: \$1,000,000

Description
 This item would construct an additional Water Booster Station near Old Highway 10 and I-694 to pump water from the low pressure zone to the high pressure zone. The booster station would be built on excess Ramsey County right of way and the structure would be made to look like a residential house due to its location.

Justification
 The City's water system currently only has one booster station providing water to the high pressure zone through a single crossing of i-694. If anything (lighting strike, wind storm, etc.) knocked out the current booster station for any length on time the high pressure zone could be out of water after the the half million gallon tower is drained.
 Construction of a second booster station will provide needed redundancy in the system so if one booster station fails or is taken down for service the high pressure zone will still be provided water.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|------------------|------|------|------|------|------------------|
| Construction/Maintenance | 1,000,000 | | | | | 1,000,000 |
| Total | 1,000,000 | | | | | 1,000,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------|------------------|------|------|------|------|------------------|
| TCAAP Reimbursements | 600,000 | | | | | 600,000 |
| Water Utility Funds | 400,000 | | | | | 400,000 |
| Total | 1,000,000 | | | | | 1,000,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Water Department
 Contact Public Works Director
 Type Improvement
 Useful Life 30
 Category Utility Improvements
 Priority 3 Important

Project # **16-W-002**
 Project Name **TCAAP Trunk Water Improvements (Spine Road)**

Total Project Cost: **\$1,000,000**

Description
 With the Ramsey County construction of the Spine Road, a TCAAP City trunk water main will also be installed. This improvement will be primarily in the Spine Road right-of-way but will include some water main outside of the right-of-way to get to the water tower site and the connection points to the City's existing system.

Justification
 In order to prepare the TCAAP site for development the City needs to extend trunk utilities into through the site with the construction of the Spine Road.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|------------------|------|------|------|------|------------------|
| Construction/Maintenance | 1,000,000 | | | | | 1,000,000 |
| Total | 1,000,000 | | | | | 1,000,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------|------------------|------|------|------|------|------------------|
| TCAAP Reimbursements | 1,000,000 | | | | | 1,000,000 |
| Total | 1,000,000 | | | | | 1,000,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Water Department
 Contact Public Works Director
 Type Improvement
 Useful Life 30
 Category Utility Improvements
 Priority 3 Important

Project # **16-W-003**
 Project Name **TCAAP Water Tower**

Total Project Cost: **\$4,800,000**

Description
 Construct a new 1.0-1.5 million gallon water tower (actual size to be determined in final design) on the TCAAP site.

Justification
 TCAAP will be served with water by expanding the City's current high pressure zone. Currently the high pressure zone only has a half million gallons of elevated storage. This amount of storage is not sufficient to provide for domestic consumption and fire flow. The additional tower will provide the needed storage. A site for the tower will be provided by Ramsey County on the TCAAP site.
 Moved to 2020 as need is not anticipated until development advances demand 7/1/16 JMA

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|-------------|-------------|-------------|------------------|-------------|------------------|
| Construction/Maintenance | | | | 4,800,000 | | 4,800,000 |
| Total | | | | 4,800,000 | | 4,800,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|------------------------|-------------|-------------|-------------|------------------|-------------|------------------|
| TCAAP Reimbursements | | | | 3,000,000 | | 3,000,000 |
| Water Utility Funds | | | | 1,800,000 | | 1,800,000 |
| Total | | | | 4,800,000 | | 4,800,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Water Department
 Contact Public Works Director
 Type Maintenance
 Useful Life 30
 Category Utility Maintenance
 Priority 4 Less Important

Project # 17-W-001
 Project Name CR E2 Water Replacement/Old Hwy 10 Water Loop

Total Project Cost: \$400,000

Description
 Water main on CR E2 from Old Hwy 10 to Valentine Hills School has experienced numerous breaks. Most recently in 2015 there were three different breaks when this section of water main had to be fed from the high pressure zone for a few days. All three breaks where due to deterioration of the pipe material until a hole appeared.
 Also, by creating a loop in the low pressure system by connecting the water main on CR E with this main on CR E2 the City will be better able to feed the low pressure system by rerouting and not have to rely on temporary feeds from the high pressure system.

Justification
 Recent water main breaks (four in 2015) on this section of main on CR E2 have all shown a deteriorated pipe material. Water breaks are exected to continue with high frequency as the pipe material continues to wear thin.
 2015 breaks - 3 on 5/12/15 and 1 on 8/4/15. Water main breaks cost between \$5,000 and \$10,000 to repair each break.
 Looping the low pressure system along Old Hwy 10 will provide needed additional redunancy in the system.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|----------------|-------------|-------------|-------------|-------------|----------------|
| Construction/Maintenance | 400,000 | | | | | 400,000 |
| Total | 400,000 | | | | | 400,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|------------------------|----------------|-------------|-------------|-------------|-------------|----------------|
| Water Utility Funds | 400,000 | | | | | 400,000 |
| Total | 400,000 | | | | | 400,000 |

Budget Impact/Other

City of Arden Hills, Minnesota

Capital Improvement Plan

2017 thru 2021

PROJECTS BY CATEGORY

| Category | Project# | Priority | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--|-------------|----------|----------------|----------------|----------------|----------------|---------------|------------------|
| Equipment: Public Works | | | | | | | | |
| Replace 1997 Street Sweeper (Unit 103) | 13-Eqp-004 | 3 | 250,000 | | | | | 250,000 |
| Large Area Mower (Unit 433) | 16-Eqp-001 | 3 | 40,000 | | | | | 40,000 |
| 1996 Trailer Replacement (Skidsteer/Roller) | 16-Eqp-003 | 4 | | 10,000 | | | | 10,000 |
| Replace Air Compressor (Unit 107) | 16-Eqp-004 | 4 | 29,500 | | | | | 29,500 |
| Replace 2006 Felling Trailer (Unit 415) | 17-Eqp-001 | 4 | 10,000 | | | | | 10,000 |
| Brush Chipper (Unit 426) | 17-Eqp-005 | 4 | 38,500 | | | | | 38,500 |
| Add Two Toro "Z" Lawn Mowers (TCAAP) | 18-Eqp-001 | 3 | | | 17,000 | | 18,000 | 35,000 |
| Replace 2005 Felling Trailer Unit (414) | 18-Eqp-002 | 4 | | | 10,000 | | | 10,000 |
| Replace Two 2014 Toro "Z" Lawn Mowers (451 & 452) | 18-Eqp-003 | 3 | | 24,000 | | | | 24,000 |
| Add Felling Trailer (TCAAP) | 18-Eqp-004 | 3 | | | 10,000 | | | 10,000 |
| Replace 1996 Roller (unit 106) | 18-Eqp-005 | 3 | | 41,500 | | | | 41,500 |
| Replace Easement Sewer Cleaning Machine (Unit 310) | 19-Eqp-001 | 3 | | | 70,000 | | | 70,000 |
| Add Generator Lift station emergency power | 19-Eqp-002 | 3 | 40,000 | | | | | 40,000 |
| Equipment: Public Works Total | | | 408,000 | 75,500 | 107,000 | | 18,000 | 608,500 |
| Vehicles | | | | | | | | |
| Add Pick-up Truck (TCAAP) | 17-EqpV-004 | 3 | 35,000 | | | | | 35,000 |
| Replace 2002 F-450 One Ton Truck (Unit 302) | 17-EqpV-001 | 3 | 72,000 | | | | | 72,000 |
| Replace 2001 Dump Truck with New Dump Truck (116) | 17-EqpV-002 | 3 | 125,000 | 115,000 | | | | 240,000 |
| Add Plow Truck w/Plow, Wing and Sander (TCAAP) | 18-EqpV-001 | 4 | | | 125,000 | 125,000 | | 250,000 |
| Add One-Ton Truck w/Plow and Sander (TCAAP) | 18-EqpV-002 | 4 | | | 82,000 | | | 82,000 |
| Add F350 Pick-up with Lift Gate (TCAAP) | 18-EqpV-003 | 4 | | | | 42,000 | | 42,000 |
| Add Pick-up Truck (TCAAP) | 18-EqpV-004 | 3 | | | 40,000 | | | 40,000 |
| Replace 2006 F-350 Four Dr w/ traffic sign (# 322) | 18-EqpV-005 | 3 | | 55,000 | | | | 55,000 |
| Replace 2008 F-350 Pick-up w/plow (unit 430) | 19-EqpV-002 | 4 | | | 55,000 | | | 55,000 |
| Vehicles Total | | | 232,000 | 170,000 | 302,000 | 167,000 | | 871,000 |
| Vehicles - Community Development | | | | | | | | |
| Replace 2004 Chevrolet Blazer (unit 502) - CD | 18-EqpV-006 | 3 | | 29,000 | | | | 29,000 |
| Vehicles - Community Development Total | | | | 29,000 | | | | 29,000 |
| GRAND TOTAL | | | 640,000 | 274,500 | 409,000 | 167,000 | 18,000 | 1,508,500 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 15
 Category Equipment: Public Works
 Priority 3 Important

Project # **13-Eqp-004**
 Project Name **Replace 1997 Street Sweeper (Unit 103)**

Total Project Cost: **\$250,000**

Description
 Equipment #105 - 1997 Elgin Street Sweeper.
 VIN # 585165
 Hours 2761 (2015)
 Hours 2864 (2016)
 Mileage 14,356 (2015)
 Mileage 14,946 (2016)

Justification
 Equipment will be 20 years old. Equipment replacement guidelines recommend replacement on 15-17 year cycle
 Repair costs for parts and labor:
 2006 - \$634.96
 2007 - \$764.53
 2008 - \$657.95
 2009 - \$7,627.62
 2010 - \$1,924.07
 2011 - \$2,197.05
 2012 - \$236.56
 2013 - \$1,857.27
 2014 - \$7,779.46
 2015- \$7,907
 2016- \$13,452
 Equipment is still operational and receives limited use which allows replacement to be pushed out to 2017
 This vehicle will be monitored for hours and repairs and adjusted as needed. Previous sweeper increased maintenance costs substantially after Year 15.
 Note: moved from 2015 to 2016 and increased cost based on state contract prices. 5/14/14 TJM
 Note: increase price to \$250K to reflect increases expected in equipment next year. 6/4/15 TJM
 Note: increase price to \$260K to reflect expected price increase 6/30/16 JMA

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|----------------|------|------|------|------|----------------|
| Equip/Vehicles/Furnishings | 260,000 | | | | | 260,000 |
| Estimated Trade-In Value | -10,000 | | | | | -10,000 |
| Total | 250,000 | | | | | 250,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|----------------|------|------|------|------|----------------|
| Equipment/Building Replacement Fund | 250,000 | | | | | 250,000 |
| Total | 250,000 | | | | | 250,000 |

Budget Impact/Other
 Reduce repair and maintenance costs.

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director

| Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|------------------------------------|------|-------------|-------------|------|------|-------------|
| Equipment and Vehicle repair costs | | -300 | -300 | | | -600 |
| Total | | -300 | -300 | | | -600 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 10-12
 Category Equipment: Public Works
 Priority 3 Important

Project # **16-Eqp-001**
 Project Name **Large Area Mower (Unit 433)**

Total Project Cost: **\$40,000**

Description
 Replacement of the 1999 Jacobson (model R-5111) 11 foot mower.
 Ser # 6912902371
 Hours
 2370 (2014)
 2496 (2015)
 2533 (2016)

Justification
 The Jacobson large area mower will be 19 years old in 2018. We have been spending a significant amount on repairs annually

2009 - \$7,292.11
 2010 - \$38.79
 2011 - \$4,524.10
 2012 - \$415.61
 2013 - \$252.00
 2014 - \$1,356.00
 2015 - \$137.00
 2016 - \$456

Note: Moved from 2016 to 2017 as the equipment is still operating well and is used less with the addition of the "Z" mowers to the fleet. 5/14/14
 TJM

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|-------------|-------------|-------------|-------------|---------------|
| Equip/Vehicles/Furnishings | 40,000 | | | | | 40,000 |
| Total | 40,000 | | | | | 40,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|---------------|-------------|-------------|-------------|-------------|---------------|
| Equipment/Building Replacement Fund | 40,000 | | | | | 40,000 |
| Total | 40,000 | | | | | 40,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
Contact Public Works Director
Type Equipment
Useful Life 20
Category Equipment: Public Works
Priority 4 Less Important

Project # 16-Eqp-003
Project Name 1996 Trailer Replacement (Skidsteer/Roller)

Total Project Cost: \$10,000

Description
Replace equipment # 108 - 1996 Redihaul Trailer 12'.
VIN #4755122T2V1013037
#85108
Note: Changed to pending as this trailer is not used in the winter and is reasonably good condition while other newer trailers that are used in the winter are in poorer condition. 4/14/14 TJM
Changed back to active as this trailer will be 22 years old in 2018 and paving projects are occupying more of public works time 6/30/16 JMA

Justification
Equipment will be 20 years old.
Repair costs for parts and labor:
2006 - \$365.37
2007 - \$120.96
2008 - none to date

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|---------------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | | 10,000 | | | | 10,000 |
| Total | | 10,000 | | | | 10,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|---------------|------|------|------|---------------|
| Equipment/Building Replacement Fund | | 10,000 | | | | 10,000 |
| Total | | 10,000 | | | | 10,000 |

Budget Impact/Other
Reduce repair costs.

Prior

-200

Total

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 20
 Category Equipment: Public Works
 Priority 4 Less Important

Project # **16-Eqp-004**
 Project Name **Replace Air Compressor (Unit 107)**

Total Project Cost: **\$29,500**

Description
 Replace a 1998 air compressor (Unit 107)
 Hours
 462 (2015)
 465 (2016)

Justification
 The current air compressor will be 19 years old in 2016. The air compressor is used for maintaining irrigation systems, jack hammering, installing street sign post, and blowing out cracks prior to crack filling material being applied.
 Note: Moved from 2016 to 2017. 5/14/14 TJM
 Note: adjusted price for 2017 6/30/16 JMA
 Repairs
 2013 \$ 123
 2014 \$74
 2015 \$169
 2016 \$50

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | 32,000 | | | | | 32,000 |
| Estimated Trade-In Value | -2,500 | | | | | -2,500 |
| Total | 29,500 | | | | | 29,500 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|---------------|------|------|------|------|---------------|
| Equipment/Building Replacement Fund | 29,500 | | | | | 29,500 |
| Total | 29,500 | | | | | 29,500 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 13-15
 Category Equipment: Public Works
 Priority 4 Less Important

Project # **17-Eqp-001**
 Project Name **Replace 2006 Felling Trailer (Unit 415)**

Total Project Cost: **\$10,000**

Description
 Replace 2006 Felling trailer with new 14 foot trailer

Justification
 The 2006 Felling Trailer is showing wear due to significant winter use. It does not meet LMC recommendations for ergonomics of use due to the manual lifting of the access ramps. It is proposed to replace it with a 14 foot trailer with improved ergonomics of operation.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | 10,000 | | | | | 10,000 |
| Total | 10,000 | | | | | 10,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|---------------|------|------|------|------|---------------|
| Equipment/Building Replacement Fund | 10,000 | | | | | 10,000 |
| Total | 10,000 | | | | | 10,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 15-17
 Category Equipment: Public Works
 Priority 4 Less Important

Project # 17-Eqp-005
 Project Name Brush Chipper (Unit 426)

Total Project Cost: \$38,500

Description
 Replace equipment # 426 - 1996 Vermeer Chipper
 VIN # iVRK1513-10000799
 Hours
 587 (2014)
 676 (2015)
 702 (2016)
 #85426
 price increased to reflect 2017 pricing 6/30/16 JMA

Justification
 Equipment will be 21 years old in 2017.
 Repair costs for parts and labor:
 2006 - 150.00
 2007 - 142.61
 2008 - \$476.63
 2009 - \$476.63
 2012- \$1,762.45
 2013- \$1.328
 2014- \$365
 2015- \$810
 2016 - \$0
 This piece of equipment will be 18 years old. However this piece of equipment is not used often and is in good condition. Condition will be monitored and replacement will be adjusted as deemed appropriate.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | 42,000 | | | | | 42,000 |
| Estimated Trade-In Value | -3,500 | | | | | -3,500 |
| Total | 38,500 | | | | | 38,500 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|---------------|------|------|------|------|---------------|
| Equipment/Building Replacement Fund | 38,500 | | | | | 38,500 |
| Total | 38,500 | | | | | 38,500 |

Budget Impact/Other
 Reduce repair costs.

Prior
 -400
 Total

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 5
 Category Equipment: Public Works
 Priority 3 Important

Project # **18-Eqp-001**
 Project Name **Add Two Toro "Z" Lawn Mowers (TCAAP)**

Total Project Cost: **\$35,000**

Description
 Add a third and fourth Toro "Z" mower to the fleet anticipating the start to development of what will ultimately be approximately 20 acres of park area in TCAAP along with medians and boulevard along the Spine Road and Thumb Road .
 Moved to 2019/2021 due to slowing of TCAAP schedule 6/30/16 JMA

Justification
 Expansion of the grass area to be mowed and maintain due to TCAAP development is anticipated to have begun by 2018 and continue to grow as TCAAP builds out. At full development it is anticipated a second mowing crew will be needed to keep up.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|------|---------------|------|---------------|---------------|
| Equip/Vehicles/Furnishings | | | 17,000 | | 18,000 | 35,000 |
| Total | | | 17,000 | | 18,000 | 35,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|------|---------------|------|---------------|---------------|
| Equipment/Building Replacement Fund | | | 17,000 | | 18,000 | 35,000 |
| Total | | | 17,000 | | 18,000 | 35,000 |

Budget Impact/Other

| Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|------------------------------------|------|------|------------|------------|------------|------------|
| Equipment and Vehicle repair costs | | | 250 | 250 | 250 | 750 |
| Total | | | 250 | 250 | 250 | 750 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 13-15
 Category Equipment: Public Works
 Priority 4 Less Important

Project # **18-Eqp-002**
 Project Name **Replace 2005 Felling Trailer Unit (414)**

Total Project Cost: **\$10,000**

Description
 Replace 2005 Felling trailer
 Moved to 2019 due to slowing of TCAAP schedule 6/30/16 JMA

Justification
 Replace the 2005 Felling trailer with a 22 foot trailer with better ergonomics

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|------|---------------|------|------|---------------|
| Equip/Vehicles/Furnishings | | | 10,000 | | | 10,000 |
| Total | | | 10,000 | | | 10,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|------|---------------|------|------|---------------|
| Equipment/Building Replacement Fund | | | 10,000 | | | 10,000 |
| Total | | | 10,000 | | | 10,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 5
 Category Equipment: Public Works
 Priority 3 Important

Project # **18-Eqp-003**
 Project Name **Replace Two 2014 Toro "Z" Lawn Mowers (451 & 452)**

Total Project Cost: \$24,000

Description
 Replace Two 2014 Toro "Z" Lawn Mowers
 451 Hours 661 (2015)
 452 Hours 620 (2015)
 451 Hours 805 (2016)
 452 Hours 774 (2016)

Justification
 The trade in value of the Toro "Z" mowers is maximized if they are traded in with warranty still remaining. Due to the amount of time these pieces of equipment are used during the summer months they are traded in on a three year cycle.
 Repairs and maintenance of items not covered under warranty
 #451
 2014 - \$132
 2015 - \$923
 2016 - \$61
 #452
 2014 - \$151
 2015 - \$623
 2016 - \$78

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|---------------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | | 34,000 | | | | 34,000 |
| Estimated Trade-In Value | | -10,000 | | | | -10,000 |
| Total | | 24,000 | | | | 24,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|---------------|------|------|------|---------------|
| Equipment/Building Replacement Fund | | 24,000 | | | | 24,000 |
| Total | | 24,000 | | | | 24,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department: Equipment
 Contact: Public Works Director
 Type: Equipment
 Useful Life: 10-12
 Category: Equipment: Public Works
 Priority: 3 Important

Project # **18-Eqp-004**
 Project Name **Add Felling Trailer (TCAAP)**

Total Project Cost: **\$10,000**

Description

Add a Felling trailer to the fleet to allow for a second mowing crew.
 Moved to 2019 due to slowing of TCAAP Schedule 6/30/16 JMA

Justification

Over the course of the development of TCAAP a second mowing crew will need to be added. The trailer will be necessary to carry the mowers and other grass maintenance equipment.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|------|---------------|------|------|---------------|
| Equip/Vehicles/Furnishings | | | 10,000 | | | 10,000 |
| Total | | | 10,000 | | | 10,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|------|---------------|------|------|---------------|
| Equipment/Building Replacement Fund | | | 10,000 | | | 10,000 |
| Total | | | 10,000 | | | 10,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 15-17
 Category Equipment: Public Works
 Priority 3 Important

Project # **18-Eqp-005**
 Project Name **Replace 1996 Roller (unit 106)**

Total Project Cost: \$41,500

Description
 1996 880 Wacker Roller (Unit 85106)
 Hours 728 (2016)

Justification
 usefull life on this piece of eqipment is 15-17 years in 2018 this will be 22 year old
 this piece of eqipment is used for street repairs related various activities including street repair, watermain repairs, storm sewer repairs.
 Repairs
 2013 - \$85
 2014 - \$114
 2015 - \$89

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|---------------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | | 40,000 | | | | 40,000 |
| Estimated Trade-In Value | | 1,500 | | | | 1,500 |
| Total | | 41,500 | | | | 41,500 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|---------------|------|------|------|---------------|
| Equipment/Building Replacement Fund | | 41,500 | | | | 41,500 |
| Total | | 41,500 | | | | 41,500 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 20
 Category Equipment: Public Works
 Priority 3 Important

Project # 19-Eqp-001
 Project Name Replace Easement Sewer Cleaning Machine (Unit 310)

Total Project Cost: \$70,000

Description
 The easement sewer cleaning machine is jointly owned by Arden Hills nad White Bear Township. In 2019 it will be 20 years old.

Justification
 The easement sewer cleaning maching will be 20 years old in 2019. Being jointly owned by Arden Hills and White Bear Township this piece of equipment gets significant use every year. The funding for this replacement will be split between the two communities. Coordination will be necessary between the two communities regarding having funding available.

Repairs
 2014 \$120
 2015 \$452
 2016 \$0

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|------|---------------|------|------|---------------|
| Equip/Vehicles/Furnishings | | | 35,000 | | | 35,000 |
| Other | | | 35,000 | | | 35,000 |
| Total | | | 70,000 | | | 70,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|------|---------------|------|------|---------------|
| Equipment/Building Replacement Fund | | | 35,000 | | | 35,000 |
| Total | | | 35,000 | | | 35,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 20-25
 Category Equipment: Public Works
 Priority 3 Important

Project # **19-Eqp-002**
 Project Name **Add Generator Lift station emergency power**

Total Project Cost: \$40,000

Description
 Add 100 KW mobile generator for lift station backup power

Justification
 Lift Station 11 was reconstructed in 2016 and a fenced pad for a backup generator was created. The electrical panel was wired to provide the ability to add a generator in this location. With 14 lift stations through out the city there is a need for backup power source to avoid sewage backups during power outages.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|-------------|-------------|-------------|-------------|---------------|
| Equip/Vehicles/Furnishings | 40,000 | | | | | 40,000 |
| Total | 40,000 | | | | | 40,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-----------------------------|---------------|-------------|-------------|-------------|-------------|---------------|
| Sanitary Sewer Utility Fund | 40,000 | | | | | 40,000 |
| Total | 40,000 | | | | | 40,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 10-12
 Category Vehicles
 Priority 3 Important

Project # 17-EgpV-004
 Project Name Add Pick-up Truck (TCAAP)

Total Project Cost: \$35,000

Description
 Add a pick-up truck to the public works fleet for the sanitary sewer and water service inspections in TCAAP.
 Inspections and locates expected to begin in 2017 6/30/16 JMA

Justification
 Public Works does the inspections of new sanitary sewer and water services. With the development of TCAAP expected to begin in 2017 with homes and other buildings this will be a busy position. In order to not take away from current crew capacity as TCAAP develops it may be necessary to add a dedicated staff member and vehicle to provide this service.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | 35,000 | | | | | 35,000 |
| Total | 35,000 | | | | | 35,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|---------------|------|------|------|------|---------------|
| Equipment/Building Replacement Fund | 35,000 | | | | | 35,000 |
| Total | 35,000 | | | | | 35,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 10-12
 Category Vehicles
 Priority 3 Important

Project # 17-EqpV-001
 Project Name Replace 2002 F-450 One Ton Truck (Unit 302)

Total Project Cost: \$72,000

Description
 Replace Unit 302 a 2002 F450 one ton truck with plow and sander.
 Mileage 60,759
 mileage 62,274 (2016)

Justification
 The one ton trucks are the "work horse" of the City fleet. They are typically replaced on a 10-12 year rotation. This truck will be 13 years old in 2017. this truck was passed over for replacement when another of the same chassis style needed to be replaced due to a bad motor.
 Repairs
 2013 \$2,568
 2014 \$1,232
 2015 \$405
 2016 \$152

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | 82,000 | | | | | 82,000 |
| Estimated Trade-In Value | -10,000 | | | | | -10,000 |
| Total | 72,000 | | | | | 72,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|---------------|------|------|------|------|---------------|
| Equipment/Building Replacement Fund | 72,000 | | | | | 72,000 |
| Total | 72,000 | | | | | 72,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department: Equipment
 Contact: Public Works Director
 Type: Equipment
 Useful Life: 10
 Category: Vehicles
 Priority: 3 Important

Project # **17-EqpV-002**
 Project Name **Replace 2001 Dump Truck with New Dump Truck (116)**

Total Project Cost: \$240,000

Description

In 2011 a used dump truck with plow and de-icing equipment was added to the fleet by purchasing one of Ramsey County's 10 year old vehicles. In 2017 the 2001 used dump truck was planned to be replaced the same way with a vehicle purchased from Ramsey County. Ramsey County does not have any trucks available in 2017 or in the near future.

Replacement of this plow truck will need to be made with a new dump truck with plow, sander and brine delivery system. Build on a truck like this is a 18 month process.

There is currently no back up equipment should this Dump Truck become inoperable.

Mileage 46,468 (2016)
 Hours 3,760 (2016)

Justification

The 2001 dump truck will be 16 years old. A used used dump truck is anticipated to be able to purchase from the Ramsey County fleet.

Repairs
 2013 \$3,212
 2014 \$7,954
 2015 \$3,138
 2016 \$1,842

mileage xxxxx

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|----------------|----------------|------|------|------|----------------|
| Equip/Vehicles/Furnishings | 125,000 | 125,000 | | | | 250,000 |
| Estimated Trade-In Value | | -10,000 | | | | -10,000 |
| Total | 125,000 | 115,000 | | | | 240,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|----------------|----------------|------|------|------|----------------|
| Equipment/Building Replacement Fund | 125,000 | 115,000 | | | | 240,000 |
| Total | 125,000 | 115,000 | | | | 240,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department: Equipment
 Contact: Public Works Director
 Type: Equipment
 Useful Life: 15
 Category: Vehicles
 Priority: 4 Less Important

Project # **18-EqpV-001**
 Project Name **Add Plow Truck w/Plow, Wing and Sander (TCAAP)**

Total Project Cost: **\$250,000**

Description
 Add the fourth plow truck with plow, wing and sander due to the start of the development of TCAAP.
 Note: 7/21/14 Council Worksession moved to 2019, will continue to evaluate as TCAAP starts to develop
 Moved to 2020 delivery with 18 month build period 6/30/16 JMA

Justification
 As TCAAP develops the City will have more streets to plow and maintain. In order for the same level of service to be maintained in the existing City at some point a fourth plow route will need to be established. As this date comes closer, the development of TCAAP will be reviewed and this addition to the fleet will be pushed out if appropriate.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|------|----------------|----------------|------|----------------|
| Equip/Vehicles/Furnishings | | | 125,000 | 125,000 | | 250,000 |
| Total | | | 125,000 | 125,000 | | 250,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|------|----------------|----------------|------|----------------|
| Equipment/Building Replacement Fund | | | 125,000 | 125,000 | | 250,000 |
| Total | | | 125,000 | 125,000 | | 250,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 10-12
 Category Vehicles
 Priority 4 Less Important

Project # **18-EqpV-002**
 Project Name **Add One-Ton Truck w/Plow and Sander (TCAAP)**

Total Project Cost: **\$82,000**

Description
 Add a one-ton truck with plow and sander to the City fleet for the maintance of new infrastructure in TCAAP
 Moved to 2019 with the slowing of the TCAAP schedule 6/30/16 JMA

Justification
 With the development of TCAAP it will be necessary to add to the City fleet in order to maintain the same level of service. As 2018 nears the development in TCAAP will be reviewed and the year of purchase may be adjusted.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|-------------|-------------|---------------|-------------|-------------|---------------|
| Equip/Vehicles/Furnishings | | | 82,000 | | | 82,000 |
| Total | | | 82,000 | | | 82,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|-------------|-------------|---------------|-------------|-------------|---------------|
| Equipment/Building Replacement Fund | | | 82,000 | | | 82,000 |
| Total | | | 82,000 | | | 82,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 10-12
 Category Vehicles
 Priority 4 Less Important

Project # **18-EqpV-003**
 Project Name **Add F350 Pick-up with Lift Gate (TCAAP)**

Total Project Cost: \$42,000

Description
 Add a F350 pickup with lift gate to the fleet for the infrastructure in TCAAP
 NOTE: 7/21/14 Council Work Session moved to 2019, will continue to evaluate as TCAAP starts to develop.
 Moved to 2020 with the slowing of the TCAAP schedule 6/30/16 JMA

Justification
 With the development of TCAAP infrastructure a pickup will need to be added to the fleet to maintain the same level of services throughout the City. As 2018 nears the development in TCAAP will be reviewed and the purchase date will be modified if appropriate.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|------|------|---------------|------|---------------|
| Equip/Vehicles/Furnishings | | | | 42,000 | | 42,000 |
| Total | | | | 42,000 | | 42,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|------|------|---------------|------|---------------|
| Equipment/Building Replacement Fund | | | | 42,000 | | 42,000 |
| Total | | | | 42,000 | | 42,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 13-15
 Category Vehicles
 Priority 3 Important

Project # **18-EqpV-004**
 Project Name **Add Pick-up Truck (TCAAP)**

Total Project Cost: \$40,000

Description
 Add pick-up truck to the public works fleet.
 Moved to 2019 with the slowing of the TCAAP schedule 6/30/16 JMA

Justification
 With the need to start a second mowing crew for the TCAAP development a truck will be needed to pull the equipment trailer and transport the workers.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|------|---------------|------|------|---------------|
| Equip/Vehicles/Furnishings | | | 40,000 | | | 40,000 |
| Total | | | 40,000 | | | 40,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|------|---------------|------|------|---------------|
| Equipment/Building Replacement Fund | | | 40,000 | | | 40,000 |
| Total | | | 40,000 | | | 40,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 10-12
 Category Vehicles
 Priority 3 Important

Project # **18-EqpV-005**
 Project Name **Replace 2006 F-350 Four Dr w/ traffic sign (# 322)**

Total Project Cost: \$55,000

Description
 Replace 2006 F-350 four door, 2x4, pick-up outfitted with traffic message board
 VIN #1FTWW30566EA19380
 Mileage 70,160 (2016)

Justification
 Truck will be 12 years old in 2018. Pick Up trucks are programed to be replaced on a 10-12 year cycle.
 Repairs
 2013 - \$103
 2014 - \$880
 2015 - \$397
 2016 - \$444

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|---------------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | | 45,000 | | | | 45,000 |
| Estimated Trade-In Value | | 10,000 | | | | 10,000 |
| Total | | 55,000 | | | | 55,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|---------------|------|------|------|---------------|
| Equipment/Building Replacement Fund | | 35,000 | | | | 35,000 |
| Total | | 35,000 | | | | 35,000 |

Budget Impact/Other
 reduced maintenace costs / maximize resale value

| Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|------------------------------------|------|------------|------|------|------|------------|
| Equipment and Vehicle repair costs | | 200 | | | | 200 |
| Total | | 200 | | | | 200 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 10-12
 Category Vehicles
 Priority 4 Less Important

Project # 19-EqpV-002
 Project Name Replace 2008 F-350 Pick-up w/plow (unit 430)

Total Project Cost: \$55,000

Description
 Replace Pick-up truck (unit 85430)
 2008 - F-350 with plow and power tail gate - 4x4
 VIN #1FTSF31558EE35324
 purchased in 2009
 mileage 60,751 (2016)

Justification
 truck will be 10 years old in 2019, Pick -up trucks are programed to be replaced on a 10-12 year cycle with plowing trucks such as this needing replacement closer to the 10 year mark.
 Repairs
 2013 - \$1,542
 2014 - \$596
 2015 - \$142
 2016 - \$1,648

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|------|---------------|------|------|---------------|
| Equip/Vehicles/Furnishings | | | 45,000 | | | 45,000 |
| Estimated Trade-In Value | | | 10,000 | | | 10,000 |
| Total | | | 55,000 | | | 55,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|------|---------------|------|------|---------------|
| Equipment/Building Replacement Fund | | | 55,000 | | | 55,000 |
| Total | | | 55,000 | | | 55,000 |

Budget Impact/Other
 reduced maintenace costs / maximize resal value

| Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|------------------------------------|------|------|------|------------|------|------------|
| Equipment and Vehicle repair costs | | | | 200 | | 200 |
| Total | | | | 200 | | 200 |

Capital Improvement Plan
 City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Community Devl Dir
 Type Equipment
 Useful Life 10-12
 Category Vehicles - Community Develo
 Priority 3 Important

Project # 18-EqpV-006
 Project Name Replace 2004 Chevrolet Blazer (unit 502) - CD

Total Project Cost: \$29,000

Description

Replace 2004 Chevrolet Blazer (unit 502) building inspection vehicle
 Replacement vehicle programmed to be a Ford Escape 4WD
 VIN #1GNDDT13X94K165862
 Mileage 60,204 (2016)

Justification

This vehicle will be 14 years old in 2018, equipment replacement guidelines suggest replacing this vehicle on a 10-12 year cycle. With the development of TCAAP residential inspections are anticipated to increase and create more trips on this vehicle.

Repairs

2013 - \$607
 2014 - \$3,056
 2015 - \$477

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|---------------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | | 30,000 | | | | 30,000 |
| Estimated Trade-In Value | | -1,000 | | | | -1,000 |
| Total | | 29,000 | | | | 29,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|---------------|------|------|------|---------------|
| Equipment/Building Replacement Fund | | 29,000 | | | | 29,000 |
| Total | | 29,000 | | | | 29,000 |

Budget Impact/Other

reduce repair costs

| Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|------------------------------------|------|------------|------|------|------|------------|
| Equipment and Vehicle repair costs | | 200 | | | | 200 |
| Total | | 200 | | | | 200 |

City of Arden Hills, Minnesota

Capital Improvement Plan

2017 thru 2021

PROJECTS BY FUNDING SOURCE

| Source | Project# | Priority | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---|-------------|----------|----------------|----------------|----------------|----------------|----------------|------------------|
| Capital Improvement Funds (PIR) | | | | | | | | |
| Playground Structure Replacement | 11-Park-003 | n/a | 65,000 | 125,000 | 120,000 | 45,000 | | 355,000 |
| Forestry Implementation Plan | 11-Park-004 | n/a | 5,000 | 5,000 | 5,000 | | | 15,000 |
| Hwy 96 Landscaping | 17-Str-003 | 4 | 300,000 | | | | | 300,000 |
| Old Snelling Ave including Bridge Reconstruction | 17-Str-004 | 3 | | | 250,000 | | | 250,000 |
| Hard Court Reconstruction | 18-Park-001 | 3 | 100,000 | 50,000 | 55,000 | 60,000 | | 265,000 |
| CR E Sidewalk and Old Hwy 10 Trail (Bethel) | 18-Str-003 | 3 | 300,000 | | | | | 300,000 |
| Co Rd 96 Signal Maintenance | 18-Str-004 | 2 | | 6,000 | | | | 6,000 |
| Capital Improvement Funds (PIR) Total | | | 770,000 | 186,000 | 430,000 | 105,000 | | 1,491,000 |
| Donations/Developer Reimbursements | | | | | | | | |
| CR E Sidewalk and Old Hwy 10 Trail (Bethel) | 18-Str-003 | 3 | 50,000 | 100,000 | 100,000 | 100,000 | 100,000 | 450,000 |
| Donations/Developer Reimbursements Total | | | 50,000 | 100,000 | 100,000 | 100,000 | 100,000 | 450,000 |
| EDA Revenues | | | | | | | | |
| Gateway Signs | 16-EDA-001 | n/a | 45,000 | | | | | 45,000 |
| EDA Revenues Total | | | 45,000 | | | | | 45,000 |
| Equipment/Building Replacement Fun | | | | | | | | |
| Springbrook Software Upgrades | 12-Tec-001 | n/a | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |
| Technology and Office Equipment | 12-Tec-002 | n/a | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |
| Replace 1997 Street Sweeper (Unit 103) | 13-Eqp-004 | 3 | 250,000 | | | | | 250,000 |
| Large Area Mower (Unit 433) | 16-Eqp-001 | 3 | 40,000 | | | | | 40,000 |
| 1996 Trailer Replacement (Skidsteer/Roller) | 16-Eqp-003 | 4 | | 10,000 | | | | 10,000 |
| Replace Air Compressor (Unit 107) | 16-Eqp-004 | 4 | 29,500 | | | | | 29,500 |
| City Hall Maintenance | 17-Bldg-005 | 2 | 50,000 | | 25,000 | | 25,000 | 100,000 |
| Add Pick-up Truck (TCAAP) | 17-EqpV-004 | 3 | 35,000 | | | | | 35,000 |
| Replace 2006 Felling Trailer (Unit 415) | 17-Eqp-001 | 4 | 10,000 | | | | | 10,000 |
| Brush Chipper (Unit 426) | 17-Eqp-005 | 4 | 38,500 | | | | | 38,500 |
| Replace 2002 F-450 One Ton Truck (Unit 302) | 17-EqpV-001 | 3 | 72,000 | | | | | 72,000 |
| Replace 2001 Dump Truck with New Dump Truck (116) | 17-EqpV-002 | 3 | 125,000 | 115,000 | | | | 240,000 |
| Add Two Toro "Z" Lawn Mowers (TCAAP) | 18-Eqp-001 | 3 | | | 17,000 | | 18,000 | 35,000 |
| Replace 2005 Felling Trailer Unit (414) | 18-Eqp-002 | 4 | | | 10,000 | | | 10,000 |
| Replace Two 2014 Toro "Z" Lawn Mowers (451 & 452) | 18-Eqp-003 | 3 | | 24,000 | | | | 24,000 |
| Add Felling Trailer (TCAAP) | 18-Eqp-004 | 3 | | | 10,000 | | | 10,000 |
| Replace 1996 Roller (unit 106) | 18-Eqp-005 | 3 | | 41,500 | | | | 41,500 |
| Add Plow Truck w/Plow, Wing and Sander (TCAAP) | 18-EqpV-001 | 4 | | | 125,000 | 125,000 | | 250,000 |
| Add One-Ton Truck w/Plow and Sander (TCAAP) | 18-EqpV-002 | 4 | | | 82,000 | | | 82,000 |
| Add F350 Pick-up with Lift Gate (TCAAP) | 18-EqpV-003 | 4 | | | | 42,000 | | 42,000 |
| Add Pick-up Truck (TCAAP) | 18-EqpV-004 | 3 | | | 40,000 | | | 40,000 |

| Source | Project# | Priority | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---|-------------|----------|----------------|------------------|------------------|------------------|----------------|------------------|
| Replace 2006 F-350 Four Dr w/ traffic sign (# 322) | 18-EqpV-005 | 3 | | 35,000 | | | | 35,000 |
| Replace 2004 Chevrolet Blazer (unit 502) - CD | 18-EqpV-006 | 3 | | 29,000 | | | | 29,000 |
| Replace Easement Sewer Cleaning Machine (Unit 310) | 19-Eqp-001 | 3 | | | 35,000 | | | 35,000 |
| Replace 2008 F-350 Pick-up w/plow (unit 430) | 19-EqpV-002 | 4 | | | 55,000 | | | 55,000 |
| Equipment/Building Replacement Fund Total | | | 660,000 | 264,500 | 409,000 | 177,000 | 53,000 | 1,563,500 |
| Grant Revenue | | | | | | | | |
| Old Snelling Ave including Bridge Reconstruction | 17-Str-004 | 3 | | | 125,000 | | | 125,000 |
| Grant Revenue Total | | | | | 125,000 | | | 125,000 |
| Park Capital Fund (Park Dedication F | | | | | | | | |
| Development of TCAAP Park Facilities | 17-Park-001 | 3 | | 2,500,000 | 2,500,000 | 2,000,000 | | 7,000,000 |
| Park Capital Fund (Park Dedication Fees) Total | | | | 2,500,000 | 2,500,000 | 2,000,000 | | 7,000,000 |
| Public Safety Capital Fund | | | | | | | | |
| LJFD Station Capital | 09-Pub-001 | n/a | 6,954 | 15,860 | 9,272 | | | 32,086 |
| LJFD Engine/Ladder Replacement | 17-Pub-001 | n/a | 172,020 | 15,128 | | | | 187,148 |
| LJFD Rescue/Chief/Utility Vehicle Replacement | 17-Pub-002 | n/a | 19,520 | | 45,140 | 50,752 | 24,400 | 139,812 |
| LJFD Radio Replacement | 17-Pub-003 | n/a | 16,348 | 16,348 | | | | 32,696 |
| LJFD Other Capital Equipment | 17-Pub-004 | n/a | 5,221 | 1,854 | 1,098 | | | 8,173 |
| County Emergency Siren Replacement | 17-Pub-005 | n/a | 28,000 | | | | | 28,000 |
| Public Safety Capital Fund Total | | | 248,063 | 49,190 | 55,510 | 50,752 | 24,400 | 427,915 |
| Ramsey County-CSAH | | | | | | | | |
| Hwy 96 and County Road F Sidewalk Improvement | 14-Str-002 | 3 | 150,000 | | | | | 150,000 |
| CR E Sidewalk and Old Hwy 10 Trail (Bethel) | 18-Str-003 | 3 | | 300,000 | | | | 300,000 |
| Ramsey County-CSAH Total | | | 150,000 | 300,000 | | | | 450,000 |
| Sanitary Sewer Utility Fund | | | | | | | | |
| Sewer Lining/Rehabilitation | 09-Sew-002 | 3 | 400,000 | | 400,000 | | 400,000 | 1,200,000 |
| Add Generator Lift station emergency power | 19-Eqp-002 | 3 | 40,000 | | | | | 40,000 |
| Sanitary Sewer Utility Fund Total | | | 440,000 | | 400,000 | | 400,000 | 1,240,000 |
| Special Revenue Cable Fund | | | | | | | | |
| Communications Equipment | 12-Tec-003 | n/a | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 10,000 |
| Special Revenue Cable Fund Total | | | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 10,000 |
| State Aid Funds | | | | | | | | |
| Hwy 96 and County Road F Sidewalk Improvement | 14-Str-002 | 3 | 275,000 | | | | | 275,000 |
| MnDOT Bridge Projects | 15-Str-061 | 3 | 100,000 | | | | | 100,000 |
| Old Snelling Ave including Bridge Reconstruction | 17-Str-004 | 3 | | | 1,325,000 | | | 1,325,000 |
| State Aid Funds Total | | | 375,000 | | 1,325,000 | | | 1,700,000 |

| Source | Project# | Priority | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--|--------------|----------|------------------|------------------|------------------|------------------|----------------|-------------------|
| Surface Water Mgmt Utility Funds | | | | | | | | |
| Storm Pond Maintenance | 09-Storm-001 | 3 | 50,000 | 0 | 50,000 | | | 100,000 |
| Reconstruct Lift Stations 11 | 10-Sew-003 | 3 | 10,000 | | | | | 10,000 |
| Storm Water Inlet/Outlet Repairs | 13-Storm-001 | 3 | 25,000 | 0 | 25,000 | | | 50,000 |
| Storm Water BMP Study/Construction | 17-Storm-001 | 3 | 125,000 | | | | | 125,000 |
| Old Snelling Ave including Bridge Reconstruction | 17-Str-004 | 3 | | | 50,000 | | | 50,000 |
| Surface Water Mgmt Utility Funds Total | | | 210,000 | 0 | 125,000 | | | 335,000 |
| TCAAP Reimbursements | | | | | | | | |
| TCAAP Trunk Sanitary Sewer & Lift Station | 16-Sew-001 | 3 | 1,200,000 | | | | | 1,200,000 |
| TCAAP New Booster Station | 16-W-001 | 3 | 600,000 | | | | | 600,000 |
| TCAAP Trunk Water Improvements (Spine Road) | 16-W-002 | 3 | 1,000,000 | | | | | 1,000,000 |
| TCAAP Water Tower | 16-W-003 | 3 | | | | 3,000,000 | | 3,000,000 |
| TCAAP Reimbursements Total | | | 2,800,000 | | | 3,000,000 | | 5,800,000 |
| Water Utility Funds | | | | | | | | |
| Water Towers Repair and Repainting | 12-W-001 | 3 | 900,000 | | | | | 900,000 |
| Valve Replacement Program | 13-W-001 | 3 | 30,000 | 35,000 | 35,000 | 35,000 | 35,000 | 170,000 |
| Hydrant Replacement Program | 15-W-001 | 3 | 40,000 | | 40,000 | | 40,000 | 120,000 |
| TCAAP New Booster Station | 16-W-001 | 3 | 400,000 | | | | | 400,000 |
| TCAAP Water Tower | 16-W-003 | 3 | | | | 1,800,000 | | 1,800,000 |
| CR E2 Water Replacement/Old Hwy 10 Water Loop | 17-W-001 | 4 | 400,000 | | | | | 400,000 |
| Water Utility Funds Total | | | 1,770,000 | 35,000 | 75,000 | 1,835,000 | 75,000 | 3,790,000 |
| GRAND TOTAL | | | 7,520,063 | 3,436,690 | 5,546,510 | 7,269,752 | 654,400 | 24,427,415 |

City of Arden Hills, Minnesota
Capital Improvement Plan
 2017 thru 2021

SOURCES AND USES OF FUNDS

| Source | | 2017 | 2018 | 2019 | 2020 | 2021 |
|--|--------------|-----------|-----------|-----------|-----------|-----------|
| Capital Improvement Funds (PIR) | | | | | | |
| Beginning Balance | | 4,279,156 | 4,224,156 | 4,753,156 | 5,038,156 | 5,648,156 |
| Revenues and Other Fund Sources | | | | | | |
| <i>Revenue</i> | | | | | | |
| Estimated Rev from Assessments | | 400,000 | 400,000 | 400,000 | 400,000 | 400,000 |
| Interest Income | | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 |
| Interfund Loan Int | | 15,000 | 15,000 | 15,000 | 15,000 | 15,000 |
| | <i>Total</i> | 515,000 | 515,000 | 515,000 | 515,000 | 515,000 |
| <i>Other Fund Sources</i> | | | | | | |
| Transfer from General Fund | | 200,000 | 200,000 | 200,000 | 200,000 | 200,000 |
| | <i>Total</i> | 200,000 | 200,000 | 200,000 | 200,000 | 200,000 |
| Total Revenues and Other Fund Sources | | 715,000 | 715,000 | 715,000 | 715,000 | 715,000 |
| Total Funds Available | | 4,994,156 | 4,939,156 | 5,468,156 | 5,753,156 | 6,363,156 |
| Expenditures and Uses | | | | | | |
| <i>Capital Projects & Equipment</i> | | | | | | |
| <i>Parks Department</i> | | | | | | |
| Playground Structure Replacement | 11-Park-003 | (65,000) | (125,000) | (120,000) | (45,000) | 0 |
| Forestry Implementation Plan | 11-Park-004 | (5,000) | (5,000) | (5,000) | 0 | 0 |
| Hard Court Reconstruction | 18-Park-001 | (100,000) | (50,000) | (55,000) | (60,000) | 0 |
| | <i>Total</i> | (170,000) | (180,000) | (180,000) | (105,000) | 0 |
| <i>Street Department</i> | | | | | | |
| Hwy 96 Landscaping | 17-Str-003 | (300,000) | 0 | 0 | 0 | 0 |
| Old Snelling Ave including Bridge Reconstruction | 17-Str-004 | 0 | 0 | (250,000) | 0 | 0 |
| CR E Sidewalk and Old Hwy 10 Trail (Bethel) | 18-Str-003 | (300,000) | 0 | 0 | 0 | 0 |
| Co Rd 96 Signal Maintenance | 18-Str-004 | 0 | (6,000) | 0 | 0 | 0 |
| | <i>Total</i> | (600,000) | (6,000) | (250,000) | 0 | 0 |
| Total Expenditures and Uses | | (770,000) | (186,000) | (430,000) | (105,000) | 0 |
| Change in Fund Balance | | (55,000) | 529,000 | 285,000 | 610,000 | 715,000 |
| Ending Balance | | 4,224,156 | 4,753,156 | 5,038,156 | 5,648,156 | 6,363,156 |

| Source | 2017 | 2018 | 2019 | 2020 | 2021 |
|--|------------|----------|-----------|-----------|-----------|
| Donations/Developer Reimbursements | | | | | |
| Beginning Balance | 0 | 0 | 100,000 | 100,000 | 100,000 |
| Revenues and Other Fund Sources | | | | | |
| <i>Revenue</i> | | | | | |
| Donations | 50,000 | 200,000 | 100,000 | 100,000 | 100,000 |
| <i>Total</i> | 50,000 | 200,000 | 100,000 | 100,000 | 100,000 |
| Total Revenues and Other Fund Sources | 50,000 | 200,000 | 100,000 | 100,000 | 100,000 |
| Total Funds Available | 50,000 | 200,000 | 200,000 | 200,000 | 200,000 |
| Expenditures and Uses | | | | | |
| <i>Capital Projects & Equipment</i> | | | | | |
| <i>Street Department</i> | | | | | |
| CR E Sidewalk and Old Hwy 10 Trail (Bethel) | 18-Str-003 | (50,000) | (100,000) | (100,000) | (100,000) |
| <i>Total</i> | | (50,000) | (100,000) | (100,000) | (100,000) |
| Total Expenditures and Uses | | (50,000) | (100,000) | (100,000) | (100,000) |
| Change in Fund Balance | 0 | 100,000 | 0 | 0 | 0 |
| Ending Balance | 0 | 100,000 | 100,000 | 100,000 | 100,000 |

| Source | 2017 | 2018 | 2019 | 2020 | 2021 |
|--|------------|-----------|-----------|-----------|-----------|
| EDA Revenues | | | | | |
| Beginning Balance | 302,050 | 208,240 | 185,206 | 187,821 | 185,954 |
| Revenues and Other Fund Sources | | | | | |
| <i>Revenue</i> | | | | | |
| Miscellaneous Revenues | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 |
| <i>Total</i> | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 |
| <i>Other Fund Sources</i> | | | | | |
| Transfer from General Fund | 90,000 | 120,000 | 150,000 | 150,000 | 150,000 |
| <i>Total</i> | 90,000 | 120,000 | 150,000 | 150,000 | 150,000 |
| Total Revenues and Other Fund Sources | 92,000 | 122,000 | 152,000 | 152,000 | 152,000 |
| Total Funds Available | 394,050 | 330,240 | 337,206 | 339,821 | 337,954 |
| Expenditures and Uses | | | | | |
| <i>Capital Projects & Equipment</i> | | | | | |
| <i>Economic Development</i> | | | | | |
| Gateway Signs | 16-EDA-001 | (45,000) | 0 | 0 | 0 |
| <i>Total</i> | | (45,000) | 0 | 0 | 0 |
| <i>Other Uses</i> | | | | | |
| Operating Expenditures | | (140,810) | (145,034) | (149,385) | (153,867) |
| <i>Total</i> | | (140,810) | (145,034) | (149,385) | (153,867) |
| Total Expenditures and Uses | | (185,810) | (145,034) | (149,385) | (153,867) |
| Change in Fund Balance | (93,810) | (23,034) | 2,615 | (1,867) | (6,483) |
| Ending Balance | 208,240 | 185,206 | 187,821 | 185,954 | 179,471 |

| Source | | 2017 | 2018 | 2019 | 2020 | 2021 |
|--|--------------|-----------|-----------|-----------|-----------|-----------|
| Equipment/Building Replacement Fund | | | | | | |
| Beginning Balance | | (69,665) | (438,900) | (412,635) | (530,870) | (407,105) |
| Revenues and Other Fund Sources | | | | | | |
| <i>Revenue</i> | | | | | | |
| Interest Income | | 0 | 0 | 0 | 0 | 0 |
| Technology Charges to Funds Op Budget | | 10,000 | 10,000 | 10,000 | 20,000 | 20,000 |
| | <i>Total</i> | 10,000 | 10,000 | 10,000 | 20,000 | 20,000 |
| <i>Other Fund Sources</i> | | | | | | |
| Transfer from General Fund | | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 |
| Transfer from Sanitary Sewer Fund | | 96,870 | 96,870 | 96,870 | 96,870 | 96,870 |
| Transfer from Surface Water Fund | | 65,499 | 65,499 | 65,499 | 65,499 | 65,499 |
| Transfer from Water Fund | | 68,396 | 68,396 | 68,396 | 68,396 | 96,870 |
| | <i>Total</i> | 280,765 | 280,765 | 280,765 | 280,765 | 309,239 |
| Total Revenues and Other Fund Sources | | 290,765 | 290,765 | 290,765 | 300,765 | 329,239 |
| Total Funds Available | | 221,100 | (148,135) | (121,870) | (230,105) | (77,866) |
| Expenditures and Uses | | | | | | |
| <i>Capital Projects & Equipment</i> | | | | | | |
| <u>Equipment</u> | | | | | | |
| Replace 1997 Street Sweeper (Unit 103) | 13-Eqp-004 | (250,000) | 0 | 0 | 0 | 0 |
| Large Area Mower (Unit 433) | 16-Eqp-001 | (40,000) | 0 | 0 | 0 | 0 |
| 1996 Trailer Replacement (Skidsteer/Roller) | 16-Eqp-003 | 0 | (10,000) | 0 | 0 | 0 |
| Replace Air Compressor (Unit 107) | 16-Eqp-004 | (29,500) | 0 | 0 | 0 | 0 |
| Add Pick-up Truck (TCAAP) | 17-EqpV-004 | (35,000) | 0 | 0 | 0 | 0 |
| Replace 2006 Felling Trailer (Unit 415) | 17-Eqp-001 | (10,000) | 0 | 0 | 0 | 0 |
| Brush Chipper (Unit 426) | 17-Eqp-005 | (38,500) | 0 | 0 | 0 | 0 |
| Replace 2002 F-450 One Ton Truck (Unit 302) | 17-EqpV-001 | (72,000) | 0 | 0 | 0 | 0 |
| Replace 2001 Dump Truck with New Dump Truck (116) | 17-EqpV-002 | (125,000) | (115,000) | 0 | 0 | 0 |
| Add Two Toro "Z" Lawn Mowers (TCAAP) | 18-Eqp-001 | 0 | 0 | (17,000) | 0 | (18,000) |
| Replace 2005 Felling Trailer Unit (414) | 18-Eqp-002 | 0 | 0 | (10,000) | 0 | 0 |
| Replace Two 2014 Toro "Z" Lawn Mowers (451 & 452) | 18-Eqp-003 | 0 | (24,000) | 0 | 0 | 0 |
| Add Felling Trailer (TCAAP) | 18-Eqp-004 | 0 | 0 | (10,000) | 0 | 0 |
| Replace 1996 Roller (unit 106) | 18-Eqp-005 | 0 | (41,500) | 0 | 0 | 0 |
| Add Plow Truck w/Plow, Wing and Sander (TCAAP) | 18-EqpV-001 | 0 | 0 | (125,000) | (125,000) | 0 |
| Add One-Ton Truck w/Plow and Sander (TCAAP) | 18-EqpV-002 | 0 | 0 | (82,000) | 0 | 0 |
| Add F350 Pick-up with Lift Gate (TCAAP) | 18-EqpV-003 | 0 | 0 | 0 | (42,000) | 0 |
| Add Pick-up Truck (TCAAP) | 18-EqpV-004 | 0 | 0 | (40,000) | 0 | 0 |
| Replace 2006 F-350 Four Dr w/ traffic sign (# 322) | 18-EqpV-005 | 0 | (35,000) | 0 | 0 | 0 |
| Replace 2004 Chevrolet Blazer (unit 502) - CD | 18-EqpV-006 | 0 | (29,000) | 0 | 0 | 0 |
| Replace Easement Sewer Cleaning Machine (Unit 310) | 19-Eqp-001 | 0 | 0 | (35,000) | 0 | 0 |
| Replace 2008 F-350 Pick-up w/plow (unit 430) | 19-EqpV-002 | 0 | 0 | (55,000) | 0 | 0 |

| Source | | 2017 | 2018 | 2019 | 2020 | 2021 |
|--|--------------|-----------|-----------|-----------|-----------|-----------|
| Equipment/Building Replacement Fund | | | | | | |
| | <i>Total</i> | (600,000) | (254,500) | (374,000) | (167,000) | (18,000) |
| <u>Government Buildings</u> | | | | | | |
| City Hall Maintenance | 17-Bldg-005 | (50,000) | 0 | (25,000) | 0 | (25,000) |
| | <i>Total</i> | (50,000) | 0 | (25,000) | 0 | (25,000) |
| <u>Technology</u> | | | | | | |
| Springbrook Software Upgrades | 12-Tec-001 | (5,000) | (5,000) | (5,000) | (5,000) | (5,000) |
| Technology and Office Equipment | 12-Tec-002 | (5,000) | (5,000) | (5,000) | (5,000) | (5,000) |
| | <i>Total</i> | (10,000) | (10,000) | (10,000) | (10,000) | (10,000) |
| Total Expenditures and Uses | | (660,000) | (264,500) | (409,000) | (177,000) | (53,000) |
| Change in Fund Balance | | (369,235) | 26,265 | (118,235) | 123,765 | 276,239 |
| Ending Balance | | (438,900) | (412,635) | (530,870) | (407,105) | (130,866) |

| Source | | 2017 | 2018 | 2019 | 2020 | 2021 |
|--|--------------|------|------|------|------|------|
| General Fund | | | | | | |
| Beginning Balance | | 0 | 0 | 0 | 0 | 0 |
| Revenues and Other Fund Sources | | | | | | |
| <i>Revenue</i> | | | | | | |
| No Funds | | 0 | 0 | 0 | 0 | 0 |
| | <i>Total</i> | 0 | 0 | 0 | 0 | 0 |
| Total Revenues and Other Fund Sources | | 0 | 0 | 0 | 0 | 0 |
| Total Funds Available | | 0 | 0 | 0 | 0 | 0 |
| Change in Fund Balance | | 0 | 0 | 0 | 0 | 0 |
| Ending Balance | | 0 | 0 | 0 | 0 | 0 |

| Source | 2017 | 2018 | 2019 | 2020 | 2021 |
|--|---------|---------|------------|------|------|
| Grant Revenue | | | | | |
| Beginning Balance | 0 | 125,000 | 125,000 | 0 | 0 |
| Revenues and Other Fund Sources | | | | | |
| <i>Revenue</i> | | | | | |
| Grant Revenue | 125,000 | 0 | 0 | 0 | 0 |
| <i>Total</i> | 125,000 | 0 | 0 | 0 | 0 |
| Total Revenues and Other Fund Sources | 125,000 | 0 | 0 | 0 | 0 |
| Total Funds Available | 125,000 | 125,000 | 125,000 | 0 | 0 |
| Expenditures and Uses | | | | | |
| <i>Capital Projects & Equipment</i> | | | | | |
| <i>Street Department</i> | | | | | |
| Old Snelling Ave including Bridge Reconstruction | | | 17-Str-004 | | |
| | 0 | 0 | (125,000) | 0 | 0 |
| <i>Total</i> | 0 | 0 | (125,000) | 0 | 0 |
| Total Expenditures and Uses | 0 | 0 | (125,000) | 0 | 0 |
| Change in Fund Balance | 125,000 | 0 | (125,000) | 0 | 0 |
| Ending Balance | 125,000 | 125,000 | 0 | 0 | 0 |

| Source | 2017 | 2018 | 2019 | 2020 | 2021 | | | |
|---|------|-------------|-------------|-------------|-------------|-------------|-------------|---|
| Park Capital Fund (Park Dedication Fees) | | | | | | | | |
| Beginning Balance | 0 | 0 | 0 | 0 | 0 | | | |
| Revenues and Other Fund Sources | | | | | | | | |
| <i>Revenue</i> | | | | | | | | |
| Interest Revenue | 0 | 0 | 0 | 0 | 0 | | | |
| Park Dedication | 0 | 2,500,000 | 2,500,000 | 2,000,000 | 0 | | | |
| <i>Total</i> | 0 | 2,500,000 | 2,500,000 | 2,000,000 | 0 | | | |
| Total Revenues and Other Fund Sources | 0 | 2,500,000 | 2,500,000 | 2,000,000 | 0 | | | |
| Total Funds Available | 0 | 2,500,000 | 2,500,000 | 2,000,000 | 0 | | | |
| Expenditures and Uses | | | | | | | | |
| <i>Capital Projects & Equipment</i> | | | | | | | | |
| <i>Parks Department</i> | | | | | | | | |
| Development of TCAAP Park Facilities | | | 17-Park-001 | 0 | (2,500,000) | (2,500,000) | (2,000,000) | 0 |
| <i>Total</i> | 0 | (2,500,000) | (2,500,000) | (2,000,000) | 0 | | | |
| Total Expenditures and Uses | 0 | (2,500,000) | (2,500,000) | (2,000,000) | 0 | | | |
| Change in Fund Balance | 0 | 0 | 0 | 0 | 0 | | | |
| Ending Balance | 0 | 0 | 0 | 0 | 0 | | | |

| Source | | 2017 | 2018 | 2019 | 2020 | 2021 |
|---|--------------|-----------|-----------|-----------|-----------|-----------|
| Public Safety Capital Fund | | | | | | |
| Beginning Balance | | 140,337 | (83,226) | (107,916) | (138,926) | (165,178) |
| Revenues and Other Fund Sources | | | | | | |
| <i>Revenue</i> | | | | | | |
| Interest Revenue | | 3,500 | 3,500 | 3,500 | 3,500 | 3,500 |
| | <i>Total</i> | 3,500 | 3,500 | 3,500 | 3,500 | 3,500 |
| <i>Other Fund Sources</i> | | | | | | |
| Charitable Gambling | | 21,000 | 21,000 | 21,000 | 21,000 | 21,000 |
| | <i>Total</i> | 21,000 | 21,000 | 21,000 | 21,000 | 21,000 |
| Total Revenues and Other Fund Sources | | 24,500 | 24,500 | 24,500 | 24,500 | 24,500 |
| Total Funds Available | | 164,837 | (58,726) | (83,416) | (114,426) | (140,678) |
| Expenditures and Uses | | | | | | |
| <i>Capital Projects & Equipment</i> | | | | | | |
| <i>Public Safety</i> | | | | | | |
| LJFD Station Capital | 09-Pub-001 | (6,954) | (15,860) | (9,272) | 0 | 0 |
| LJFD Engine/Ladder Replacement | 17-Pub-001 | (172,020) | (15,128) | 0 | 0 | 0 |
| LJFD Rescue/Chief/Utility Vehicle Replacement | 17-Pub-002 | (19,520) | 0 | (45,140) | (50,752) | (24,400) |
| LJFD Radio Replacement | 17-Pub-003 | (16,348) | (16,348) | 0 | 0 | 0 |
| LJFD Other Capital Equipment | 17-Pub-004 | (5,221) | (1,854) | (1,098) | 0 | 0 |
| County Emergency Siren Replacement | 17-Pub-005 | (28,000) | 0 | 0 | 0 | 0 |
| | <i>Total</i> | (248,063) | (49,190) | (55,510) | (50,752) | (24,400) |
| Total Expenditures and Uses | | (248,063) | (49,190) | (55,510) | (50,752) | (24,400) |
| Change in Fund Balance | | (223,563) | (24,690) | (31,010) | (26,252) | 100 |
| Ending Balance | | (83,226) | (107,916) | (138,926) | (165,178) | (165,078) |

| Source | 2017 | 2018 | 2019 | 2020 | 2021 |
|--|------|------|------|------|------|
| Ramsey Co Donation | | | | | |
| Beginning Balance | 0 | 0 | 0 | 0 | 0 |
| Revenues and Other Fund Sources | | | | | |
| No Funds | 0 | 0 | 0 | 0 | 0 |
| <i>Total</i> | 0 | 0 | 0 | 0 | 0 |
| Total Revenues and Other Fund Sources | 0 | 0 | 0 | 0 | 0 |
| Total Funds Available | 0 | 0 | 0 | 0 | 0 |
| Change in Fund Balance | 0 | 0 | 0 | 0 | 0 |
| Ending Balance | 0 | 0 | 0 | 0 | 0 |

| Source | 2017 | 2018 | 2019 | 2020 | 2021 |
|--|-----------|-----------|------|------|------|
| Ramsey County-CSAH | | | | | |
| Beginning Balance | 0 | 0 | 0 | 0 | 0 |
| Revenues and Other Fund Sources | | | | | |
| <i>Revenue</i> | | | | | |
| State Aid | 150,000 | 300,000 | 0 | 0 | 0 |
| <i>Total</i> | 150,000 | 300,000 | 0 | 0 | 0 |
| Total Revenues and Other Fund Sources | 150,000 | 300,000 | 0 | 0 | 0 |
| Total Funds Available | 150,000 | 300,000 | 0 | 0 | 0 |
| Expenditures and Uses | | | | | |
| <i>Capital Projects & Equipment</i> | | | | | |
| <i>Street Department</i> | | | | | |
| Hwy 96 and County Road F Sidewalk Improvement 14-Str-002 | (150,000) | 0 | 0 | 0 | 0 |
| CR E Sidewalk and Old Hwy 10 Trail (Bethel) 18-Str-003 | 0 | (300,000) | 0 | 0 | 0 |
| <i>Total</i> | (150,000) | (300,000) | 0 | 0 | 0 |
| Total Expenditures and Uses | (150,000) | (300,000) | 0 | 0 | 0 |
| Change in Fund Balance | 0 | 0 | 0 | 0 | 0 |
| Ending Balance | 0 | 0 | 0 | 0 | 0 |

| Source | 2017 | 2018 | 2019 | 2020 | 2021 |
|--|------------|-------------|-------------|-------------|-------------|
| Sanitary Sewer Utility Fund | | | | | |
| Beginning Balance | (568,306) | (853,679) | (771,585) | (1,102,764) | (1,047,989) |
| Revenues and Other Fund Sources | | | | | |
| <i>Revenue</i> | | | | | |
| Grant Revenue | 60,000 | 0 | 0 | 0 | 0 |
| Operating Revenue | 1,827,762 | 1,864,317 | 1,901,604 | 1,939,636 | 1,978,429 |
| <i>Total</i> | 1,887,762 | 1,864,317 | 1,901,604 | 1,939,636 | 1,978,429 |
| Total Revenues and Other Fund Sources | 1,887,762 | 1,864,317 | 1,901,604 | 1,939,636 | 1,978,429 |
| Total Funds Available | 1,319,456 | 1,010,638 | 1,130,019 | 836,872 | 930,440 |
| Expenditures and Uses | | | | | |
| <i>Capital Projects & Equipment</i> | | | | | |
| <i>Equipment</i> | | | | | |
| Add Generator Lift station emergency power | 19-Eqp-002 | (40,000) | 0 | 0 | 0 |
| <i>Total</i> | | (40,000) | 0 | 0 | 0 |
| <i>Sanitary Sewer Department</i> | | | | | |
| Sewer Lining/Rehabilitation | 09-Sew-002 | (400,000) | 0 | (400,000) | 0 |
| <i>Total</i> | | (400,000) | 0 | (400,000) | 0 |
| <i>Other Uses</i> | | | | | |
| Operating Expenditures | | (1,636,265) | (1,685,353) | (1,735,913) | (1,787,991) |
| Operating transfer to Equipment Fund | | (96,870) | (96,870) | (96,870) | (96,870) |
| <i>Total</i> | | (1,733,135) | (1,782,223) | (1,832,783) | (1,884,861) |
| Total Expenditures and Uses | | (2,173,135) | (1,782,223) | (2,232,783) | (1,884,861) |
| Change in Fund Balance | (285,373) | 82,094 | (331,179) | 54,775 | (360,071) |
| Ending Balance | (853,679) | (771,585) | (1,102,764) | (1,047,989) | (1,408,060) |

| Source | 2017 | 2018 | 2019 | 2020 | 2021 |
|--|------------|-----------|-----------|-----------|-----------|
| Special Revenue Cable Fund | | | | | |
| Beginning Balance | 205,341 | 169,035 | 128,100 | 82,397 | 31,783 |
| Revenues and Other Fund Sources | | | | | |
| <i>Revenue</i> | | | | | |
| Operating Revenues | 115,000 | 115,000 | 115,000 | 115,000 | 115,000 |
| <i>Total</i> | 115,000 | 115,000 | 115,000 | 115,000 | 115,000 |
| <i>Other Fund Sources</i> | | | | | |
| Interest Revenue | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 |
| <i>Total</i> | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 |
| Total Revenues and Other Fund Sources | 120,000 | 120,000 | 120,000 | 120,000 | 120,000 |
| Total Funds Available | 325,341 | 289,035 | 248,100 | 202,397 | 151,783 |
| Expenditures and Uses | | | | | |
| <i>Capital Projects & Equipment</i> | | | | | |
| <i>Technology</i> | | | | | |
| Communications Equipment | 12-Tec-003 | (2,000) | (2,000) | (2,000) | (2,000) |
| <i>Total</i> | | (2,000) | (2,000) | (2,000) | (2,000) |
| <i>Other Uses</i> | | | | | |
| Operating Expenditures | | (154,306) | (158,935) | (163,703) | (168,614) |
| <i>Total</i> | | (154,306) | (158,935) | (163,703) | (168,614) |
| Total Expenditures and Uses | | (156,306) | (160,935) | (165,703) | (170,614) |
| Change in Fund Balance | | (36,306) | (40,935) | (45,703) | (50,614) |
| Ending Balance | | 169,035 | 128,100 | 82,397 | 31,783 |
| | | | | | (23,890) |

| Source | 2017 | 2018 | 2019 | 2020 | 2021 |
|---|-----------|-----------|-------------|-------------|-------------|
| State Aid Funds | | | | | |
| Beginning Balance | (774,250) | (884,889) | (620,528) | (1,681,167) | (1,416,806) |
| Revenues and Other Fund Sources | | | | | |
| <i>Revenue</i> | | | | | |
| Estimated Revenues | 264,361 | 264,361 | 264,361 | 264,361 | 264,361 |
| <i>Total</i> | 264,361 | 264,361 | 264,361 | 264,361 | 264,361 |
| Total Revenues and Other Fund Sources | 264,361 | 264,361 | 264,361 | 264,361 | 264,361 |
| Total Funds Available | (509,889) | (620,528) | (356,167) | (1,416,806) | (1,152,445) |
| Expenditures and Uses | | | | | |
| <i>Capital Projects & Equipment</i> | | | | | |
| <i>Street Department</i> | | | | | |
| Hwy 96 and County Road F Sidewalk Improvement 14-Str-002 | (275,000) | 0 | 0 | 0 | 0 |
| MnDOT Bridge Projects 15-Str-061 | (100,000) | 0 | 0 | 0 | 0 |
| Old Snelling Ave including Bridge Reconstruction 17-Str-004 | 0 | 0 | (1,325,000) | 0 | 0 |
| <i>Total</i> | (375,000) | 0 | (1,325,000) | 0 | 0 |
| Total Expenditures and Uses | (375,000) | 0 | (1,325,000) | 0 | 0 |
| Change in Fund Balance | (110,639) | 264,361 | (1,060,639) | 264,361 | 264,361 |
| Ending Balance | (884,889) | (620,528) | (1,681,167) | (1,416,806) | (1,152,445) |

| Source | | 2017 | 2018 | 2019 | 2020 | 2021 |
|--|--------------|-----------|-----------|-----------|-----------|-----------|
| Surface Water Mgmt Utility Funds | | | | | | |
| Beginning Balance | | 161,896 | 94,231 | 242,801 | 272,792 | 434,399 |
| Revenues and Other Fund Sources | | | | | | |
| <i>Revenue</i> | | | | | | |
| Operating Revenue | | 727,483 | 749,307 | 771,786 | 794,940 | 818,788 |
| | <i>Total</i> | 727,483 | 749,307 | 771,786 | 794,940 | 818,788 |
| Total Revenues and Other Fund Sources | | 727,483 | 749,307 | 771,786 | 794,940 | 818,788 |
| Total Funds Available | | 889,379 | 843,538 | 1,014,587 | 1,067,732 | 1,253,187 |
| Expenditures and Uses | | | | | | |
| <i>Capital Projects & Equipment</i> | | | | | | |
| <u>Sanitary Sewer Department</u> | | | | | | |
| Reconstruct Lift Stations 11 | 10-Sew-003 | (10,000) | 0 | 0 | 0 | 0 |
| | <i>Total</i> | (10,000) | 0 | 0 | 0 | 0 |
| <u>Street Department</u> | | | | | | |
| Old Snelling Ave including Bridge Reconstruction | 17-Str-004 | 0 | 0 | (50,000) | 0 | 0 |
| | <i>Total</i> | 0 | 0 | (50,000) | 0 | 0 |
| <u>Surface Water Management Dept</u> | | | | | | |
| Storm Pond Maintenance | 09-Storm-001 | (50,000) | 0 | (50,000) | 0 | 0 |
| Storm Water Inlet/Outlet Repairs | 13-Storm-001 | (25,000) | 0 | (25,000) | 0 | 0 |
| Storm Water BMP Study/Construction | 17-Storm-001 | (125,000) | 0 | 0 | 0 | 0 |
| | <i>Total</i> | (200,000) | 0 | (75,000) | 0 | 0 |
| <i>Other Uses</i> | | | | | | |
| Operating Expenditures | | (519,649) | (535,238) | (551,296) | (567,834) | (584,870) |
| Transfer to Equipment Fund | | (65,499) | (65,499) | (65,499) | (65,499) | (65,499) |
| | <i>Total</i> | (585,148) | (600,737) | (616,795) | (633,333) | (650,369) |
| Total Expenditures and Uses | | (795,148) | (600,737) | (741,795) | (633,333) | (650,369) |
| Change in Fund Balance | | (67,665) | 148,570 | 29,991 | 161,607 | 168,419 |
| Ending Balance | | 94,231 | 242,801 | 272,792 | 434,399 | 602,818 |

| Source | 2017 | 2018 | 2019 | 2020 | 2021 |
|--|------------|-------------|------|-------------|------|
| TCAAP Reimbursements | | | | | |
| Beginning Balance | 0 | 0 | 0 | 0 | 0 |
| Revenues and Other Fund Sources | | | | | |
| <i>Revenue</i> | | | | | |
| TCAAP Reimbursements | 0 | 0 | 0 | 3,000,000 | 0 |
| TCAAP Reimbursements | 2,800,000 | 0 | 0 | 0 | 0 |
| <i>Total</i> | 2,800,000 | 0 | 0 | 3,000,000 | 0 |
| Total Revenues and Other Fund Sources | 2,800,000 | 0 | 0 | 3,000,000 | 0 |
| Total Funds Available | 2,800,000 | 0 | 0 | 3,000,000 | 0 |
| Expenditures and Uses | | | | | |
| <i>Capital Projects & Equipment</i> | | | | | |
| <u>Sanitary Sewer Department</u> | | | | | |
| TCAAP Trunk Sanitary Sewer & Lift Station | 16-Sew-001 | (1,200,000) | 0 | 0 | 0 |
| <i>Total</i> | | (1,200,000) | 0 | 0 | 0 |
| <u>Water Department</u> | | | | | |
| TCAAP New Booster Station | 16-W-001 | (600,000) | 0 | 0 | 0 |
| TCAAP Trunk Water Improvements (Spine Road) | 16-W-002 | (1,000,000) | 0 | 0 | 0 |
| TCAAP Water Tower | 16-W-003 | 0 | 0 | (3,000,000) | 0 |
| <i>Total</i> | | (1,600,000) | 0 | (3,000,000) | 0 |
| Total Expenditures and Uses | | (2,800,000) | 0 | (3,000,000) | 0 |
| Change in Fund Balance | 0 | 0 | 0 | 0 | 0 |
| Ending Balance | 0 | 0 | 0 | 0 | 0 |

| Source | 2017 | 2018 | 2019 | 2020 | 2021 |
|--|---------|---------|---------|---------|---------|
| TIF District | | | | | |
| Beginning Balance | 263,786 | 263,786 | 263,786 | 263,786 | 263,786 |
| Revenues and Other Fund Sources | | | | | |
| <i>Revenue</i> | | | | | |
| No Funds | 0 | 0 | 0 | 0 | 0 |
| <i>Total</i> | 0 | 0 | 0 | 0 | 0 |
| Total Revenues and Other Fund Sources | 0 | 0 | 0 | 0 | 0 |
| Total Funds Available | 263,786 | 263,786 | 263,786 | 263,786 | 263,786 |
| Change in Fund Balance | 0 | 0 | 0 | 0 | 0 |
| Ending Balance | 263,786 | 263,786 | 263,786 | 263,786 | 263,786 |

| Source | | 2017 | 2018 | 2019 | 2020 | 2021 |
|---|--------------|-------------|-------------|-------------|-------------|-------------|
| Water Utility Funds | | | | | | |
| Beginning Balance | | 841,673 | (656,736) | (433,709) | (265,129) | (1,871,912) |
| Revenues and Other Fund Sources | | | | | | |
| <i>Revenue</i> | | | | | | |
| Operating Revenue | | 2,376,354 | 2,423,881 | 2,472,358 | 2,521,806 | 2,572,242 |
| | <i>Total</i> | 2,376,354 | 2,423,881 | 2,472,358 | 2,521,806 | 2,572,242 |
| Total Revenues and Other Fund Sources | | 2,376,354 | 2,423,881 | 2,472,358 | 2,521,806 | 2,572,242 |
| Total Funds Available | | 3,218,027 | 1,767,145 | 2,038,649 | 2,256,677 | 700,330 |
| Expenditures and Uses | | | | | | |
| <i>Capital Projects & Equipment</i> | | | | | | |
| <i>Water Department</i> | | | | | | |
| Water Towers Repair and Repainting | 12-W-001 | (900,000) | 0 | 0 | 0 | 0 |
| Valve Replacement Program | 13-W-001 | (30,000) | (35,000) | (35,000) | (35,000) | (35,000) |
| Hydrant Replacement Program | 15-W-001 | (40,000) | 0 | (40,000) | 0 | (40,000) |
| TCAAP New Booster Station | 16-W-001 | (400,000) | 0 | 0 | 0 | 0 |
| TCAAP Water Tower | 16-W-003 | 0 | 0 | 0 | (1,800,000) | 0 |
| CR E2 Water Replacement/Old Hwy 10 Water Loop | 17-W-001 | (400,000) | 0 | 0 | 0 | 0 |
| | <i>Total</i> | (1,770,000) | (35,000) | (75,000) | (1,835,000) | (75,000) |
| <i>Other Uses</i> | | | | | | |
| Operating Expenditures | | (2,036,367) | (2,097,458) | (2,160,382) | (2,225,193) | (2,291,949) |
| Transfer to Equipment Fund | | (68,396) | (68,396) | (68,396) | (68,396) | (68,396) |
| | <i>Total</i> | (2,104,763) | (2,165,854) | (2,228,778) | (2,293,589) | (2,360,345) |
| Total Expenditures and Uses | | (3,874,763) | (2,200,854) | (2,303,778) | (4,128,589) | (2,435,345) |
| Change in Fund Balance | | (1,498,409) | 223,027 | 168,580 | (1,606,783) | 136,897 |
| Ending Balance | | (656,736) | (433,709) | (265,129) | (1,871,912) | (1,735,015) |

Project By Category -- City Funds Only

| Category | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--|------------------|----------------|----------------|----------------|----------------|------------------|
| Building Repair and Maint | | | | | | |
| City Hall Maintenance | 50,000 | | 25,000 | | 25,000 | 100,000 |
| Building and Repair Maint Total | 50,000 | - | 25,000 | - | 25,000 | 100,000 |
| Economic Development Improvement | | | | | | |
| Gateway Signs | 45,000 | | | | | 45,000 |
| Economic Development Improvements Total | 45,000 | - | - | - | - | 45,000 |
| Equipment: Office | | | | | | |
| Springbrook Software Upgrades | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |
| Technology and Office Equipment | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |
| Communications Equipment | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 10,000 |
| Equipment: Office Total | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 60,000 |
| Park Capital Equipment | | | | | | |
| Playground Structure Replacement | 65,000 | 125,000 | 120,000 | 45,000 | | 355,000 |
| Park Capital Equipment Total | 65,000 | 125,000 | 120,000 | 45,000 | - | 355,000 |
| Park Capital Improvements | | | | | | |
| Forestry Implementation Plan | 5,000 | 5,000 | 5,000 | | | 15,000 |
| Hard Court Reconstruction | 100,000 | 50,000 | 55,000 | 60,000 | | 265,000 |
| Park Capital Improvements Total | 105,000 | 55,000 | 60,000 | 60,000 | - | 280,000 |
| Public Safety | | | | | | |
| LJFD Station Capital | 6,954 | 15,860 | 9,272 | | | 32,086 |
| LJFD Engine/Ladder Replacement | 172,020 | 15,128 | | | | 187,148 |
| LJFD Rescue/Chief/Utility Vehicle | 19,520 | | 45,140 | 50,752 | 24,400 | 139,812 |
| LJFD Radio Replacement | 16,348 | 16,348 | | | | 32,696 |
| LJFD Other Capital Equipment | 5,221 | 1,854 | 1,098 | | | 8,173 |
| County Emergency Siren Replacement | 28,000 | | | | | 28,000 |
| Public Safety Total | 248,063 | 49,190 | 55,510 | 50,752 | 24,400 | 427,915 |
| Sanitary Sewer Maintenance | | | | | | |
| Sewer Lining/Rehabilitation | 400,000 | | 400,000 | | 400,000 | 1,200,000 |
| Sanitary Sewer Maintenance | 400,000 | - | 400,000 | - | 400,000 | 1,200,000 |
| Storm Water Maintenance | | | | | | |
| Storm Pond Maintenance | 50,000 | | 50,000 | | | 100,000 |
| Storm Water Inlet/Outlet Repairs | 25,000 | | 25,000 | | | 50,000 |
| Storm Water BMP | 125,000 | | | | | 125,000 |
| Reconstruct Lift Station 11 | 10,000 | | | | | 10,000 |
| Sanitary Sewer Maintenance | 210,000 | - | 75,000 | - | - | 285,000 |
| Streets: Reconstruction | | | | | | |
| CR E Sidewalk and Old Hwy 10 Trail | 300,000 | | | | | 300,000 |
| Streets: Reconstruction Total | 300,000 | - | - | - | - | 300,000 |
| Streets: Misc | | | | | | |
| Hwy 96 Landscaping | 300,000 | | | | | 300,000 |
| Co Rd 96 Signal Maintenance | | 6,000 | | | | 6,000 |
| Streets: Misc | 300,000 | 6,000 | - | - | - | 306,000 |
| Utility Improvements | | | | | | |
| Reconstruct Lift Station 11 | 10,000 | | | | | 10,000 |
| Utility Improvements Total | 10,000 | - | - | - | - | 10,000 |
| Utility Maintenance | | | | | | |
| Water Tower Repair and Repainting | 900,000 | | | | | 900,000 |
| Valve Replacement | 30,000 | 35,000 | 35,000 | 35,000 | 35,000 | 170,000 |
| Hydrant Replacement Program | 40,000 | | 40,000 | | 40,000 | 120,000 |
| Co Rd E2 Water Replacement Old Hwy 10 | 400,000 | | | | | 400,000 |
| Utility Maintenance | 1,370,000 | 35,000 | 75,000 | 35,000 | 75,000 | 1,590,000 |
| Grand Total | 3,065,063 | 282,190 | 797,510 | 202,752 | 511,400 | 4,858,915 |

City of Arden Hills, Minnesota
 Capital Improvement Plan
 2017 thru 2021
PROJECTS BY DEPARTMENT

| Department | Project # | Priority | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---|--------------|----------|------------------|------------------|------------------|----------------|----------------|------------------|
| Economic Development | | | | | | | | |
| Gateway Signs | 16-EDA-001 | n/a | 45,000 | | | | | 45,000 |
| Economic Development Total | | | 45,000 | 0 | 0 | 0 | 0 | 45,000 |
| Government Buildings | | | | | | | | |
| City Hall Maintenance | 17-Bldg-005 | 2 | 50,000 | | 25,000 | | 25,000 | 100,000 |
| Economic Development Total | | | 50,000 | 0 | 25,000 | 0 | 25,000 | 100,000 |
| Parks Department | | | | | | | | |
| Playground Structure Replacement | 11-Park-003 | n/a | 65,000 | 125,000 | 120,000 | 45,000 | | 355,000 |
| Forestry Implementation Plan | 11-Park-004 | n/a | 5,000 | 5,000 | 5,000 | | | 15,000 |
| Hard Court Reconstruction | 18-Park-001 | 3 | 100,000 | 50,000 | 55,000 | 60,000 | | 265,000 |
| Parks Department Total | | | 170,000 | 180,000 | 180,000 | 105,000 | 0 | 635,000 |
| Public Safety | | | | | | | | |
| LFJD Station Capital | 09-Pub-001 | n/a | 6,954 | 15,860 | 9,272 | | | 32,086 |
| LFJD Engine/Ladder Replacement | 17-Pub-001 | n/a | 172,020 | 15,128 | | | | 187,148 |
| LFJD Rescue/Chief/Utility Vehicle Replacement | 17-Pub-002 | n/a | 19,520 | | 45,140 | 50,752 | 24,400 | 139,812 |
| LFJD Radio Replacement | 17-Pub-003 | n/a | 16,348 | 16,348 | | | | 32,696 |
| LFJD Other Capital Equipment | 17-Pub-004 | n/a | 5,221 | 1,854 | 1,098 | | | 8,173 |
| County Emergency Siren Replacement | 17-Pub-005 | n/a | 28,000 | | | | | 28,000 |
| Public Safety Total | | | 248,063 | 49,190 | 55,510 | 50,752 | 24,400 | 427,915 |
| Sanitary Sewer Department | | | | | | | | |
| Sewer Lining/Rehabilitation | 09-Sew-002 | 3 | 400,000 | | 400,000 | | 400,000 | 1,200,000 |
| Reconstruct Lift Station 11 | 10-Sew-003 | 3 | 10,000 | | | | | 10,000 |
| Sanitary Sewer Department | | | 410,000 | 0 | 400,000 | 0 | 400,000 | 1,210,000 |
| Street Department | | | | | | | | |
| Hwy 96 and County Road F Sidewalk Impr | 14-Str-002 | 3 | 425,000 | | | | | 425,000 |
| MnDOT Bridge Projects | 15-Str-061 | 3 | 100,000 | | | | | 100,000 |
| Hwy 96 Landscaping | 17-Str-003 | 4 | 300,000 | | | | | 300,000 |
| Old Snelling Ave including Bridge Restoration | 17-Str-004 | 3 | | | 1,750,000 | | | 1,750,000 |
| CO RD E Sidewalk and Old HWY 10 Trail | 18-Str-003 | 3 | 400,000 | 1,000,000 | | | | 1,400,000 |
| CO RD 9 Signal Maintenance | 18-Str-004 | 2 | | 6,000 | | | | 6,000 |
| Street Department Total | | | 1,225,000 | 1,006,000 | 1,750,000 | 0 | 0 | 3,981,000 |
| Surface Water Management Department | | | | | | | | |
| Storm Pond Maintenance | 09-Storm-01 | 3 | 50,000 | | 50,000 | | | 100,000 |
| Storm Water Inlet/Outlet Repairs | 13-Storm-001 | 3 | 25,000 | | 25,000 | | | 50,000 |
| Storm Water BMP Study | 17-Storm-001 | 3 | 125,000 | | | | | 125,000 |
| Surface Water Management Dept Total | | | 200,000 | 0 | 75,000 | 0 | 0 | 275,000 |
| Technology | | | | | | | | |
| Springbrook Software Upgrades | 12-Tec-001 | n/a | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |
| Technology and Office Equipment | 12-Tec-002 | n/a | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |
| Communications Equipment | 12-Tec-003 | n/a | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 10,000 |
| Technology Total | | | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 60,000 |

| Department | Project # | Priority | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|------------------------------------|-----------|----------|------------------|------------------|------------------|----------------|----------------|------------------|
| Water Department | | | | | | | | <i>900,000</i> |
| Water Tower Repair and Painting | 12-W-001 | 3 | 900,000 | | | | | <i>170,000</i> |
| Valve Replacement Program | 13-W-001 | 3 | 30,000 | 35,000 | 35,000 | 35,000 | 35,000 | <i>120,000</i> |
| Hydrant Replacement Program | 15-W-001 | 3 | 40,000 | | 40,000 | | 40,000 | <i>400,000</i> |
| CR E2 Water Replacement/Old Hwy 10 | 17-W-001 | 4 | 400,000 | | | | | |
| Water Total | | | 1,370,000 | 35,000 | 75,000 | 35,000 | 75,000 | 1,590,000 |
| Grand Total | | | 3,730,063 | 1,282,190 | 2,547,510 | 202,752 | 511,400 | 8,323,915 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Economic Development
 Contact Community Devl Dir
 Type Improvement
 Useful Life
 Category Economic Devl Improvement
 Priority n/a

Project # **16-EDA-001**
 Project Name **Gateway Signs**

Total Project Cost: **\$45,000**

Description

Install gateway signs at the major entrance points to the City. Potential locations for the signs include: (1) Highway 96 at Round Lake Boulevard and (2) at Lexington Avenue; (3) County Road E2 at I-35W; (4) County Road E at Highway 51 and (5) at Lexington Avenue; (6) County Road D at Cleveland Avenue (7) Lake Johanna Boulevard at the Roseville border; and (8) Lexington Avenue at the Roseville border. Potential sign locations are listed from north to south and are not in priority order.

The cost for a typical sign is \$25,000 per sign, including installation, lighting, and landscaping is estimated. Actual costs may be more or less depending on the amount of site improvements and/or landscaping that are necessary in a specific location.

The sign that is proposed for consideration in 2017 is at Lexington and Highway 96 and is estimated to cost approximately \$45,000.

The EDA General Fund balance includes approximately \$80,000 in reserves from previous transfers for Gateway signs.

Justification

Advance the economic development goals in the 2030 Comprehensive Plan. Implement the Guiding Plan for the B2 District. Work to better identify the entrance points to the City for businesses and visitors. Foster civic pride and community identity.

| Prior | Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------|--------------------------|---------------|----------|------|------|------|---------------|
| 0 | Construction/Maintenance | 45,000 | 0 | | | | 45,000 |
| | Total | 45,000 | 0 | | | | 45,000 |

| | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--|-----------------|---------------|------|------|------|------|---------------|
| | EDA Revenues | 45,000 | | | | | 45,000 |
| | Total | 45,000 | | | | | 45,000 |

Budget Impact/Other

Annual maintenance costs for sign cleaning and care of landscaped beds surrounding the signs is estimated by the Public Works Department at \$500 per sign annually.

| Prior | Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------|---------------------------|----------|------------|------------|------------|------------|--------------|
| 0 | Annual Maintenance Charge | 0 | 500 | 500 | 500 | 500 | 2,000 |
| | Total | 0 | 500 | 500 | 500 | 500 | 2,000 |

**Capital Improvement Plan
City of Arden Hills, Minnesota**

2017 thru 2021

Department Government Buildings
Contact Finance Director
Type Maintenance
Useful Life 10
Category Building Repair & Maint
Priority 2 Very Important

Project # 17-Bldg-005
Project Name City Hall Maintenance

Total Project Cost: \$100,000

Description
City Hall will require ongoing maintenance and replacement of items to maintain operational duties.
Currently, the large condensing unit (main office) has developed a leak over the last three years, costing the city \$4,000 and \$4,500 in maintenance for 2015 and 2016 (ongoing), respectively. The two smaller condensing units (council chambers) have developed a leak this past spring, and will require replacement in the upcoming years.

Justification
These items are due for replacement, and will save the City future repair costs by replacing them in the near-term.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|------|---------------|------|---------------|----------------|
| Equip/Vehicles/Furnishings | 50,000 | | 25,000 | | 25,000 | 100,000 |
| Total | 50,000 | | 25,000 | | 25,000 | 100,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|---------------|------|---------------|------|---------------|----------------|
| Equipment/Building Replacement Fund | 50,000 | | 25,000 | | 25,000 | 100,000 |
| Total | 50,000 | | 25,000 | | 25,000 | 100,000 |

Budget Impact/Other

| Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Equipment and Vehicle repair costs | -3,000 | -3,000 | -3,000 | -3,000 | -3,000 | -15,000 |
| Total | -3,000 | -3,000 | -3,000 | -3,000 | -3,000 | -15,000 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Parks Department
 Contact Park & Recreation Mgr
 Type Improvement
 Useful Life
 Category Park Capital Equipment
 Priority n/a

Project # **11-Park-003**
 Project Name **Playground Structure Replacement**

Total Project Cost: **\$355,000**

Description
 Play Structures are placed on a 20 year replacement pattern.

Justification
 In order to maintain playground structures that meet current safety guidelines, require a minimum amount of maintenance, and have replacement parts available, a 20 year replacement schedule was established for play structures. The following is a list of play structures, the year they were constructed, the year they are scheduled to be replaced, and the anticipated replacement cost.
 Hazelnut Park - 2017. This structure was last replaced in 1997. (\$65,000)
 Freeway Park (\$45,000) & Cummings Park - 2018 (\$80,000). These structures were last replaced in 1998.
 Arden Manor (\$75,000) & Arden Oaks (\$45,000) - 2019, These structures were last replaced in 1999.
 Ingerson Park (\$45,000) - 2020, This structure was last replaced in 2000.
 Includes removal of wood curbing and replacement with concrete curbing.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|---------------|----------------|----------------|---------------|------|----------------|
| Construction/Maintenance | 65,000 | 125,000 | 120,000 | 45,000 | | 355,000 |
| Total | 65,000 | 125,000 | 120,000 | 45,000 | | 355,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------------------------------|---------------|----------------|----------------|---------------|------|----------------|
| Capital Improvement Funds (PIR) | 65,000 | 125,000 | 120,000 | 45,000 | | 355,000 |
| Total | 65,000 | 125,000 | 120,000 | 45,000 | | 355,000 |

Budget Impact/Other
 By replacing playground structures the City will see future cost savings by not having to purchase replacement parts for aging playground structures.

| Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------------------------------|-------------|-------------|-------------|-------------|-------------|---------------|
| Maintenance of Parks and Trails | -200 | -200 | -200 | -200 | -200 | -1,000 |
| Total | -200 | -200 | -200 | -200 | -200 | -1,000 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Parks Department
 Contact Park & Recreation Mgr
 Type Operational Maintenance
 Useful Life
 Category Park Capital Improvements
 Priority n/a

Project # **11-Park-004**
 Project Name **Forestry Implementation Plan**

Total Project Cost: \$15,000

Description
 With the Emerald Ash Borer identified in St. Paul in the spring of 2009, the studies show that the beetles will move out at a rate of one to two miles per year. Roseville found EAB in Langton Park and Northwestern has positive finds on both the Roseville and Arden Hills portion of campus. A positive tree was found in Sampson Park in the fall of 2013. Staff has included funding for extra removals and replacements that may be needed for Emerald Ash Borer.

Justification
 The City will have impacts to the Forestry with the Emerald Ash Borer Treatment, Removal and Replacement on the horizon.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|--------------|--------------|--------------|------|------|---------------|
| Construction/Maintenance | 5,000 | 5,000 | 5,000 | | | 15,000 |
| Total | 5,000 | 5,000 | 5,000 | | | 15,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------------------------------|--------------|--------------|--------------|------|------|---------------|
| Capital Improvement Funds (PIR) | 5,000 | 5,000 | 5,000 | | | 15,000 |
| Total | 5,000 | 5,000 | 5,000 | | | 15,000 |

Budget Impact/Other
 Removal and Replacement will be a large impact.

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Parks Department
 Contact Public Works Director
 Type Improvement
 Useful Life 20-25
 Category Park Capital Improvements
 Priority 3 Important

Project # **18-Park-001**
 Project Name **Hard Court Reconstruction**

Total Project Cost: **\$265,000**

Description
 The Maintenance Plan has placed the City's hard court play area's on a 5-7 year resurface schedule. Floral Park was last replaced in 2012. At that time, it was recommended that the City reconstruct that court in 5-6 years. There are structural cracks that cannot be corrected with a basic resurface. Hazelnut was resurfaced in 2013 and is scheduled to be reconstructed in 2019. Royal Hills was resurfaced in 2013 and is scheduled to be reconstructed in 2020. Johanna Marsh court was constructed in 1974 and is need of reconstruction, this is planned for 2017

Justification
 The cracks at Johanna Marsh, Floral Park, Hazelnut Park and Royal Hills cannot be resolved through a basic resurface. The court at Floral is surrounded by trees and roots are intruding into the playing surface. The constant leaves on the court and root intrusion reduces the life of this court. The City did root cutting and tree trimming/removal around the entire Floral court in 2012. This will help to keep the roots from continuing into the court area. Staff does not know the exact date the Floral court was built but estimates in the early 1980's. Johanna Marsh was built in 1974, Hazelnut was built in 1981 and Royal Hills in 1986. The court life is usally 25-30 years.
 Adjusted cost for Johanna Marsh and future projects 7/1/16 JMA
 Note: Added a court reconstruction to 2017 for Johanna Marsh. It was scheduled to be recoated in 2015 but the condition is such that recoating would be a not cost effective as the court should be reconstructed. The order of the courts planned to be reconstructed could be switched but all three should ultimately be done. 7/7/15 TJM

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|----------------|---------------|---------------|---------------|-------------|----------------|
| Construction/Maintenance | 100,000 | 50,000 | 55,000 | 60,000 | | 265,000 |
| Total | 100,000 | 50,000 | 55,000 | 60,000 | | 265,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------------------------------|----------------|---------------|---------------|---------------|-------------|----------------|
| Capital Improvement Funds (PIR) | 100,000 | 50,000 | 55,000 | 60,000 | | 265,000 |
| Total | 100,000 | 50,000 | 55,000 | 60,000 | | 265,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Public Safety
 Contact City Administrator
 Type Equipment
 Useful Life
 Category Public Safety
 Priority n/a

Project # **09-Pub-001**
 Project Name **LJFD Station Capital**

Total Project Cost: **\$32,086**

Description

Lake Johanna Fire Department provides a detailed capital budget which includes the costs to each City.

2017 - Firefighter lockers, replace furnace,
 Total Cost: \$28,500
 Arden Hills Cost: \$6,954

2018 - Repaint bay ceilings/walls, replace roof over bays.
 Total Cost: \$65,000
 Arden Hills Cost: \$15,860

2019 - Resurface bay floors
 Total Cost: \$38,000
 Arden Hills Cost: \$9,272

No costs projected past 2019

Justification

These expenditures are for:
 Station repairs, truck replacements and misc equipment.

More detailed explanations can be found in the Lake Johanna Capital Budget.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|--------------|---------------|--------------|-------------|-------------|---------------|
| Equip/Vehicles/Furnishings | 6,954 | 15,860 | 9,272 | | | 32,086 |
| Total | 6,954 | 15,860 | 9,272 | | | 32,086 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|--------------|---------------|--------------|-------------|-------------|---------------|
| Public Safety Capital Fund | 6,954 | 15,860 | 9,272 | | | 32,086 |
| Total | 6,954 | 15,860 | 9,272 | | | 32,086 |

Budget Impact/Other

There are no impacts to the operating budget of the City as it contracts for Fire Services from Lake Johanna Fire Department. Any savings as a result of this project would be reflected in the fire services contract in reduced building maintenance costs.

**Capital Improvement Plan
City of Arden Hills, Minnesota**

2017 thru 2021

Department Public Safety
Contact City Administrator
Type Equipment
Useful Life
Category Public Safety
Priority n/a

Project # **17-Pub-001**
Project Name **LJFD Engine/Ladder Replacement**

Total Project Cost: **\$187,148**

Description
Lake Johanna Fire Department provides the City with a Capital Budget each year outlining expected capital outflows, the fire department has budgeted for the replacement of a fire engine in future years.

Total Cost: \$705,000
Arden Hills Cost: \$172,020

Justification
These expenditures are for:
Station repairs, truck replacements and misc equipment.

More detailed explanations can be found in the Lake Johanna Capital Budget.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|----------------|---------------|-------------|-------------|-------------|----------------|
| Equip/Vehicles/Furnishings | 172,020 | 15,128 | | | | 187,148 |
| Total | 172,020 | 15,128 | | | | 187,148 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|----------------|---------------|-------------|-------------|-------------|----------------|
| Public Safety Capital Fund | 172,020 | 15,128 | | | | 187,148 |
| Total | 172,020 | 15,128 | | | | 187,148 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Public Safety
 Contact City Administrator
 Type Equipment
 Useful Life
 Category Public Safety
 Priority n/a

Project # 17-Pub-002
 Project Name LJFD Rescue/Chief/Utility Vehicle Replacement

Total Project Cost: \$139,812

Description

Lake Johanna Fire Department provides the City with a Capital Budget each year outlining expected capital outflows, the fire department has budgeted for the replacement of a Rescue/Chief/Utility vehicles in future years.

2017
 Total Cost: \$80,000
 Arden Hills Cost: \$19,520

2019
 Total Cost: \$185,000
 Arden Hills Cost: \$45,140

2020
 Total Cost: \$208,000
 Arden Hills Cost: \$50,752

2021
 Total Cost: \$100,000
 Arden Hills Cost: \$24,400

Justification

These expenditures are for:
 Station repairs, truck replacements and misc equipment.

More detailed explanations can be found in the Lake Johanna Capital Budget.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|------|---------------|---------------|---------------|----------------|
| Equip/Vehicles/Furnishings | 19,520 | | 45,140 | 50,752 | 24,400 | 139,812 |
| Total | 19,520 | | 45,140 | 50,752 | 24,400 | 139,812 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|------|---------------|---------------|---------------|----------------|
| Public Safety Capital Fund | 19,520 | | 45,140 | 50,752 | 24,400 | 139,812 |
| Total | 19,520 | | 45,140 | 50,752 | 24,400 | 139,812 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Public Safety
 Contact City Administrator
 Type Equipment
 Useful Life
 Category Public Safety
 Priority n/a

Project # **17-Pub-003**
 Project Name **LJFD Radio Replacement**

Total Project Cost: \$32,696

Description

Lake Johanna Fire Department provides the City with a Capital Budget each year outlining expected capital outflows, the fire department has budgeted for the replacement of Portable Radios in 2017 and 2018.

2017
 Total Cost: \$67,000
 Arden Hills Cost: \$16,348

2018
 Total Cost: \$67,000
 Arden Hills Cost: \$16,348

Justification

These expenditures are for:
 Station repairs, truck replacements and misc equipment.

More detailed explanations can be found in the Lake Johanna Capital Budget.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|---------------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | 16,348 | 16,348 | | | | 32,696 |
| Total | 16,348 | 16,348 | | | | 32,696 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|---------------|------|------|------|---------------|
| Public Safety Capital Fund | 16,348 | 16,348 | | | | 32,696 |
| Total | 16,348 | 16,348 | | | | 32,696 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Public Safety
 Contact City Administrator
 Type Equipment
 Useful Life
 Category Public Safety
 Priority n/a

Project # **17-Pub-004**
 Project Name **LJFD Other Capital Equipment**

Total Project Cost: \$8,173

Description

Lake Johanna Fire Department provides the City with a Capital Budget each year outlining expected capital outflows, below shows what the fire department expects to spend on other capital equipment in the upcoming years.

2017
 Tire Replacement
 Computer Replacement
 Saw Replacement
 Mobile CAD
 Total Cost: \$21,400
 Arden Hills Cost: \$5,221

2018
 Computer Replacement
 Replace AED's
 Total Cost: \$7,600
 Arden Hills Cost: \$1,854

2019
 SCBA Bottle Test
 Total Cost: \$4,500
 Arden Hills Cost: \$1,098

Justification

These expenditures are for:
 Station repairs, truck replacements and misc equipment.

More detailed explanations can be found in the Lake Johanna Capital Budget.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|--------------|--------------|--------------|------|------|--------------|
| Equip/Vehicles/Furnishings | 5,221 | 1,854 | 1,098 | | | 8,173 |
| Total | 5,221 | 1,854 | 1,098 | | | 8,173 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|--------------|--------------|--------------|------|------|--------------|
| Public Safety Capital Fund | 5,221 | 1,854 | 1,098 | | | 8,173 |
| Total | 5,221 | 1,854 | 1,098 | | | 8,173 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Public Safety
 Contact Finance Director
 Type Equipment
 Useful Life
 Category Public Safety
 Priority n/a

Project # **17-Pub-005**
 Project Name **County Emergency Siren Replacement**

Total Project Cost: **\$28,000**

Description
 Ramsey County is planning on replacing emergency sirens, costs updated per Ramsey County on 11/14/2016. The current equipment will need to be upgraded in order to remain compatible with Ramsey County as they update their equipment. The updates include radios, antennas, accessory equipment needed to operate the new emergency system.

Justification
 Ramsey County is planning on replacing emergency sirens, costs updated per Ramsey County on 11/14/2016. DP

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | 28,000 | | | | | 28,000 |
| Total | 28,000 | | | | | 28,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|------|------|------|------|---------------|
| Public Safety Capital Fund | 28,000 | | | | | 28,000 |
| Total | 28,000 | | | | | 28,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Sanitary Sewer Department
 Contact Public Works Director
 Type Maintenance
 Useful Life 30
 Category Sanitary Sewer Maintenance
 Priority 3 Important

Project # **09-Sew-002**
 Project Name **Sewer Lining/Rehabilitation**

Total Project Cost: **\$3,200,000**

Description
 Sewer Lining and Rehabilitation.
 Note: Increased 2013 amount to 500,000 because there will likely be another round of I&I elimination grants from MCES. Will not use addition dollars unless they can be leveraged for grant monies. 5/21/12 TJM
 Note: An analysis of our system shows that we still have approximately 18 miles (40%) that are old clay lines subject to infiltration and root intrusion. It was estimated it would cost \$3,500,000 to line all of these clay lines over the next 20 years. Estimated expenditures have been extended for 20 years to reflect this cost. 10/1/12 TJM
 The City is expected to receive \$60,000 in grant revenue for 2017 per Public Works.

Justification
 As part of our sanitary sewer program, lines found with holes and cracks allowing for infiltration should be lined or repaired as needed. As the sewer infrastructure is aging, we should plan for a rehabilitation project on an annual basis.
 2016 estimates show a remaining need of 1.6 to 2.2 million. Set a funding level of \$400K every 2 years JMA 7/14/16

| Prior | Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total | Future |
|--------------|--------------------------|----------------|------|----------------|------|----------------|------------------|--------------|
| 1,200,000 | Construction/Maintenance | 400,000 | | 400,000 | | 400,000 | 1,200,000 | 800,000 |
| Total | Total | 400,000 | | 400,000 | | 400,000 | 1,200,000 | Total |

| Prior | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total | Future |
|--------------|-----------------------------|----------------|------|----------------|------|----------------|------------------|--------------|
| 1,200,000 | Sanitary Sewer Utility Fund | 400,000 | | 400,000 | | 400,000 | 1,200,000 | 800,000 |
| Total | Total | 400,000 | | 400,000 | | 400,000 | 1,200,000 | Total |

Budget Impact/Other
 This project will help the overall I&I reduction program. Savings are estimated at this time based on part of the surcharge fees for I&I by the Metropolitan Council.

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Sanitary Sewer Department
 Contact Public Works Director
 Type Improvement
 Useful Life 20-25
 Category Utility Improvements
 Priority 3 Important

Project # **10-Sew-003**
 Project Name **Reconstruct Lift Stations 11**

Total Project Cost: \$253,100

Description

Project to replace lift stations 11 (1861 Highway 96) . The average life expectancy for a lift station is 25 years. New pumps and electrical panels would be installed. The new pumps and panels would be compatible with the other 14 lift stations located throughout the City.

Engineering/Design already completed, however, a review should be completed to ensure no design modifications are needed.

Note: Due to the 10/96 interchange construction LS 11 was not rebuilt, only LS 13 was authorized. It was designed in 2011 and will be built in 2012. Funding has been changed to reflect the change in project scope and LS 11 reconstruction will be added back into a later year. 5/21/12 TJM

Lift Station #11 may be impacted by the Highway 10/County Rd 96 improvement project, scheduled for 2011.

LS 11 was not impacted by the 10/96 project, nor was it possible to eliminate LS 11 because of the materials under Hwy 96 not supporting a gravity pipe to flow to RLR. LS 11 reconstruction will be put back in the CIP in 2015 4/22/14 TJM

Note: 7/21/14 Council Worksession moved to 2016 to help balance yearly expenditures.

Justification

The lift stations are over 40 years old and in need of replacement.

| Prior | Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|--------------------------|---------------|------|------|------|------|---------------|
| 243,100 | Construction/Maintenance | 10,000 | | | | | 10,000 |
| Total | Total | 10,000 | | | | | 10,000 |

| Prior | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|----------------------------------|---------------|------|------|------|------|---------------|
| 243,100 | Surface Water Mgmt Utility Funds | 10,000 | | | | | 10,000 |
| Total | Total | 10,000 | | | | | 10,000 |

Budget Impact/Other

As this project is completed in 2017, the bulk of the work having been done in 2016, the City will realize cost savings with reduced maintenance costs that would normally be attributed to this lift station.

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Street Department
 Contact Public Works Director
 Type Improvement
 Useful Life 30
 Category Streets:Misc
 Priority 3 Important

Project # **14-Str-002**
 Project Name **Hwy 96 and County Road F Sidewalk Improvement**

Description **Total Project Cost: \$475,000**

In 2013 Ramsey County and MnDOT are completing Hwy 96 from approximately North Heights Church westerly to Round Lake Road. That improvement will have a bituminous trail on the south side and a concrete sidewalk on the north side. The previous Hwy 96 improvement did not extend sidewalk on the north side west of Hamline Avenue. Therefore, when the 2013 improvement is complete there will be a gap in the sidewalk on the north side from Hamline Avenue to approximately the entrance to North Heights Church (3600 Feet)

Note: with the construction on the 10/96 project carrying over into the summer of 2014 this sidewalk project is being delayed until 2015 so as not to cause more traffic problems. It will also be combined with the sidewalk fill in project on County Road F between Hamline and Lexington. There is a gap in the sidewalk from the new apartment building (Arden Village) to Hamline of approximately 600 feet.

Note: 7/21/14 Council Work Session moved to 2016 to be combine with the TCAAP spine road construction

Justification

Completing the sidewalk on the north side of Hwy 96 will make a continuous trail on the north side of Hwy 96 from West Round Lake Road easterly to the City of White Bear Lake.

The Ramsey County Cost Participation Policy states that the County will pay half the construction cost on new sidewalk along their roadways with the City paying the other half plus overhead costs.

| Prior | Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|--------------------------|----------------|------|------|------|------|----------------|
| 50,000 | Construction/Maintenance | 425,000 | | | | | 425,000 |
| Total | Total | 425,000 | | | | | 425,000 |

| Prior | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|--------------------|----------------|------|------|------|------|----------------|
| 50,000 | Ramsey County-CSAH | 150,000 | | | | | 150,000 |
| | State Aid Funds | 275,000 | | | | | 275,000 |
| Total | Total | 425,000 | | | | | 425,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Street Department
 Contact Public Works Director
 Type Improvement
 Useful Life 30
 Category Streets:Misc
 Priority 3 Important

Project # **15-Str-061**
 Project Name **MnDOT Bridge Projects**

Total Project Cost: **\$1,000,000**

Description

Mn/DOT has programmed the replacement of several bridges within or on the border of Arden Hills. These include the following bridges with the MnDOT plan year of construction.

2015 County Road E bridge over TH 51
 2015 TH 96 Interchange at 35W
 2015 County Road F (Lake Valentine Rd) bridge over 35W
 2016 County Road E2 interchange at 35W
 2016 County Road H Interchange at 35W

Generally MnDOT's policy is to provide pedestrian facilities on one side of new bridges. If the City(s) and/or County request pedestrian facilities on both sides on the bridge that cost is paid by the City and County. The County's cost participation policy states that for these types of projects the cost is split 50% County and 50% City(s)

Justification

Since these bridge projects are built for 50 to 75 years it may be prudent to carefully consider the addition of pedestrian facilities on both sides of the bridge.

Estimated City share for each of these bridge s is listed below. The estimates are based on the County cost participation policy of 50% County and 50% City(s). These estimates can be further redefined as each structure goes through the layout phase to determine the style of interchange and the length of bridge. The estimates are as follows:

County Road E Bridge over TH 51 \$250,000
 Hwy 96 Interchange at 35W \$250,000
 County Road F Bridge over 35W \$250,000
 County Raod E2 Interchange with 35W \$250,000
 County Road H Interchange with 35W \$250,000

| Prior | Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|--------------------------|----------------|------|------|------|------|----------------|
| 900,000 | Construction/Maintenance | 100,000 | | | | | 100,000 |
| Total | Total | 100,000 | | | | | 100,000 |

| Prior | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|-----------------|----------------|------|------|------|------|----------------|
| 900,000 | State Aid Funds | 100,000 | | | | | 100,000 |
| Total | Total | 100,000 | | | | | 100,000 |

Budget Impact/Other

When the bridge is reconstructed with pedestrian facilities the City may be responsible for snow removal activities for the these facilities.

| Prior | Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|---------------------------|------------|------------|------------|------------|------------|--------------|
| 400 | Annual Maintenance Charge | 400 | 400 | 400 | 400 | 400 | 2,000 |
| Total | Total | 400 | 400 | 400 | 400 | 400 | 2,000 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Street Department
 Contact Park & Recreation Mgr
 Type Improvement
 Useful Life 20-25
 Category Streets:Misc
 Priority 4 Less Important

Project # 17-Str-003
 Project Name Hwy 96 Landscaping

Total Project Cost: \$300,000

Description
 MnDot and Ramsey County grade separated US 10/Hwy 96 in 2013/2014 and reconstructed the I-35W/Hwy 96 Interchange in 2015/2016. These projects created several new medians and boulevard areas that have not been landscaped as the remainder of the Hwy 96 corridor is through Arden Hills

Justification
 This work will complete the landscaping of the Hwy 96 corridor in Arden Hills

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|----------------|------|------|------|------|----------------|
| Construction/Maintenance | 300,000 | | | | | 300,000 |
| Total | 300,000 | | | | | 300,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------------------------------|----------------|------|------|------|------|----------------|
| Capital Improvement Funds (PIR) | 300,000 | | | | | 300,000 |
| Total | 300,000 | | | | | 300,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Street Department
 Contact Public Works Director
 Type Improvement
 Useful Life 20-25
 Category Streets: Reconstruction
 Priority 3 Important

Project # 17-Str-004
 Project Name Old Snelling Ave including Bridge Reconstruction

Total Project Cost: \$1,750,000

Description

The existing roadway has a minimal storm water management system in place. Records indicate that Snelling Avenue was crack sealed and seal coated in 1996. City staff will televisive the utility lines to determine the extent of any necessary repairs.

A preliminary Scoping Document was prepared in December 2010. Several options for reconstruction were discussed. No major sanitary sewer or water problems were identified.

There is a bridge at the south end that will need to be replaced at the same time. Final bridge plans have been completed and are submitted to MnDOT requesting Bridge Bonding funds

Snelling Ave (Co Rd E - TH51)

Estimated Residential Equivalent Units: 24

2005 AADT: 1650
 2009 AADT: 950

Note: Council authorized Bridge final plans in late 2011, in March 2012 Council decided street and bridge should be done together after Bridge Bonding Funds are secured. Earliest this could be accomplished is in 2013. 5/21/12 TJM

Bridge Bonding request submitted July of 2015 since won't be rebuilt at least until after 2015 replacement of CR E bridge over TH 51. TJM

Cummings Lane and Hamline Ave. north of Co. Rd. E could be easily added to this project for reclaiming of the road surface.

Justification

Records indicate Snelling Avenue was crack sealed and sealcoated in 1996. The existing roadway currently has a minimal storm water management system in place.

Snelling from TH51 to Co Rd E, 2005 PCI = 34, 2008 PCI = 31, 2011 PCI= (Increase due to heavy patching)

Utilities
 Watermain - no history of problems
 Sanitary Sewer - no history of problems, install chimney seals on all manholes; correct any I&I deficiencies.
 Storm Sewer - project must meet Rice Creek Watershed District requirements; improvements will improve water quality to Lake Johanna.

In order to better understand the project costs for this road segment, staff completed a field survey and some preliminary analysis for this project in 2010. Results of the survey and knowledge of existing conditions will assist in determining potential rehabilitation measures and associated construction cost estimates. The level of improvement will determine the storm water requirements.

Although this roadway has a low ADT it will likely be a significant detour when the CR E bridge is replaced in 2014 or 2015. In its current condition Snelling Ave will not likely hold up under increase traffic during the CR E bridge replacement. This segment is also listed as a PTRC high priority for a detached trail (Segment I).

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|------|------|------------------|------|------|------------------|
| Construction/Maintenance | | | 1,750,000 | | | 1,750,000 |
| Total | | | 1,750,000 | | | 1,750,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------------------------------|------|------|---------|------|------|---------|
| Capital Improvement Funds (PIR) | | | 250,000 | | | 250,000 |
| Grant Revenue | | | 125,000 | | | 125,000 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 *thru* 2021

Department Street Department
 Contact Public Works Director

| | | |
|----------------------------------|------------------|------------------|
| State Aid Funds | 1,325,000 | 1,325,000 |
| Surface Water Mgmt Utility Funds | 50,000 | 50,000 |
| Total | 1,750,000 | 1,750,000 |

Budget Impact/Other

The street has deteriorated past the point where other forms of maintenance are cost-effective. Long-term, reconstruction will provide a consistent roadway section that will reduce costs associated with patching potholes and other pavement failures. Monitoring/maintenance will be required for new stormwater features that are not resident-maintained rain gardens.

Anticipated costs included here are for a Municipal State Aid fundable street rural reconditioning/reconstruction, bridge replacement and detached trail.

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Street Department
 Contact Public Works Director
 Type Improvement
 Useful Life 20-25
 Category Streets:Misc
 Priority 3 Important

Project # **18-Str-003**
 Project Name **CR E Sidewalk and Old Hwy 10 Trail (Bethel)**

Total Project Cost: \$1,400,000

Description
 Construct a sidewalk along CR E (side to be determined) from TH 51 Bridge to Old Hwy 10 and then a detached trail along the west side of Old Hwy 10 from County Road E to Bethel University's main entrance.
 Construction of the trail along Old Hwy 10 will need to be studied to determine to most cost-effective type of construction especially in areas of wetlands (detached boardwalk, shoulder of Old Hwy 10, urbanize a portion of Old Hwy 10 and construct trail immediately behind the curb).

Justification
 In 2013 Bethel University received a CUP for using the Country Financial building. As part of that CUP negotiation Bethel agreed to \$800,000 towards the trail over the years 2016-2023. The City committed in the CUP to having the trail from CR E/TH 51 over to Old Hwy 10 and then north along the west side of Old Hwy 10 to Bethel's main entrance by the end of 2018.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|----------------|------------------|------|------|------|------------------|
| Planning/Design | 400,000 | | | | | 400,000 |
| Construction/Maintenance | | 1,000,000 | | | | 1,000,000 |
| Total | 400,000 | 1,000,000 | | | | 1,400,000 |

| Prior | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total | Future |
|--------------|------------------------------------|----------------|----------------|----------------|----------------|----------------|------------------|--------------|
| 50,000 | Capital Improvement Funds (PIR) | 300,000 | | | | | 300,000 | 300,000 |
| Total | Donations/Developer Reimbursements | 50,000 | 100,000 | 100,000 | 100,000 | 100,000 | 450,000 | Total |
| | Ramsey County-CSAH | | 300,000 | | | | 300,000 | |
| | Total | 350,000 | 400,000 | 100,000 | 100,000 | 100,000 | 1,050,000 | |

Budget Impact/Other
 Between the contribution from Bethel University and the Ramsey County Cost Participation Policy there should be sufficient funds to construct the project. The City will likely be responsible for the design and interim funding until Bethel's full contribution is accomplished in 2021.

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Street Department
 Contact Public Works Director
 Type Maintenance
 Useful Life 10-12
 Category Streets:Misc
 Priority 2 Very Important

Project # **18-Str-004**
 Project Name **Co Rd 96 Signal Maintenance**

Total Project Cost: **\$6,000**

Description
 Traffic Signal painting of signals at County Road 96 and Hamline and County Road 96 and Lexington.

Justification
 Maintenance of paint systems on traffic signals are the responsibility of the local jurisdiction. The paint maintenance on the signal at Hamline Avenue and Co Rd 96 is 100% Arden Hills. The paint maintenance on the signal at Co Rd 96 and Lexington Avenue is split 50% by Arden Hills and 50% by Shoreview.
 Ramsey county is working to organize signal painting along this corridor and allow cities to participate in a collective effort to contract for this work in 2018.
 The signals were installed in 2006

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|-------------|--------------|-------------|-------------|-------------|--------------|
| Construction/Maintenance | | 6,000 | | | | 6,000 |
| Total | | 6,000 | | | | 6,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------------------------------|-------------|--------------|-------------|-------------|-------------|--------------|
| Capital Improvement Funds (PIR) | | 6,000 | | | | 6,000 |
| Total | | 6,000 | | | | 6,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Surface Water Management D
 Contact Public Works Director
 Type Maintenance
 Useful Life 20-25
 Category Storm Water Maintenance
 Priority 3 Important

Project # **09-Storm-001**
 Project Name **Storm Pond Maintenance**

Total Project Cost: \$200,000

Description
 Development of a maintenance plan to be implemented to meet MPCA SWPPP requirements.
 Due to new regulations from the MPCA regarding disposal of materials removed from ponds, staff is reviewing best management practices and costs related to these types of projects.

Justification
 Storm pond cleaning and rehabilitation projects to meet surface water quality requirements.

| Prior | Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|--------------------------|---------------|----------|---------------|------|------|----------------|
| 100,000 | Construction/Maintenance | 50,000 | 0 | 50,000 | | | 100,000 |
| Total | Total | 50,000 | 0 | 50,000 | | | 100,000 |

| Prior | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|----------------------------------|---------------|----------|---------------|------|------|----------------|
| 100,000 | Surface Water Mgmt Utility Funds | 50,000 | 0 | 50,000 | | | 100,000 |
| Total | Total | 50,000 | 0 | 50,000 | | | 100,000 |

Budget Impact/Other
 There are no operational impacts associated with this project at this time.

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Surface Water Management D
 Contact Public Works Director
 Type Maintenance
 Useful Life 15-17
 Category Storm Water Maintenance
 Priority 3 Important

Project # **13-Storm-001**
 Project Name **Storm Water Inlet/Outlet Repairs**

Total Project Cost: **\$100,000**

Description
 One of the requirements of the City's MS4 permit is to annually inspect 20% of the inlets/outlets in our stormwater system. The City actually inspected 100% of them in the final year (2011) of our first MS4 permit. Many are in disrepair and need to be fixed.

Justification
 To maintain our storm drainage system annually the City should undertake the repair of inlets/outlets and other erosion issues that are found throughout the system.

| Prior | Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------|--------------------------|---------------|----------|---------------|------|------|---------------|
| 50,000 | Construction/Maintenance | 25,000 | 0 | 25,000 | | | 50,000 |
| | Total | 25,000 | 0 | 25,000 | | | 50,000 |

| Prior | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------|----------------------------------|---------------|----------|---------------|------|------|---------------|
| 50,000 | Surface Water Mgmt Utility Funds | 25,000 | 0 | 25,000 | | | 50,000 |
| | Total | 25,000 | 0 | 25,000 | | | 50,000 |

Budget Impact/Other

**Capital Improvement Plan
City of Arden Hills, Minnesota**

2017 thru 2021

Department Surface Water Management D

Contact Public Works Director

Type Unassigned

Useful Life

Category Storm Water Maintenance

Priority 3 Important

Project # **17-Storm-001**
Project Name **Storm Water BMP Study/Construction**

Total Project Cost: \$175,000

Description

Comprehensive study of water quality BMP needs throughout the City and opportunities to implement BMP that can improve water quality.

In 2009 the Rice Creek Watershed District prepared a report titled Karth Lake Management Action Plan. The report identified Best Management Practices (BMP) that would help continue to improve the quality of lake water. This item would implement BMP #1 which would provide treatment for the runoff entering the south end of the lake from the industrial properties.

Justification

The City's NPDES permit requires that the City works to develop a program to address storm water quality. A number of water bodies the City of Arden Hills drains to are impaired and have or are in the process of creating a TMDL (total maximum daily load) for those waterbodies. Moving forward the City will be required to meet the terms laid out in the TMDL plan for the waterbody. This study would be able to identify where the greatest needs for BMPs are and help prioritize projects as they are identified

Karth Lake Improvement District has been very active in monitoring and improving the quality of water in Karth Lake. This item was identified by a RCWD report as a BMP that would improve the quality of runoff from the south end of the lake. The industrial properties in that area currently have no treatment of runoff before it enters Karth Lake.

| Prior | Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|--------------------------|----------------|------|------|------|------|----------------|
| 50,000 | Construction/Maintenance | 125,000 | | | | | 125,000 |
| Total | Total | 125,000 | | | | | 125,000 |

| Prior | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|----------------------------------|----------------|------|------|------|------|----------------|
| 50,000 | Surface Water Mgmt Utility Funds | 125,000 | | | | | 125,000 |
| Total | Total | 125,000 | | | | | 125,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Technology
 Contact Finance Director
 Type Technology
 Useful Life
 Category Equipment: Office
 Priority n/a

Project # **12-Tec-001**
 Project Name **Springbrook Software Upgrades**

Total Project Cost: \$25,000

Description
 The Finance Suite was upgraded in 2010 to the .Net version of the software. The City purchased Springbrook software in 2001-2002. In 2011-2014 we have been implementing the Human Resource module and the Central Services modules. As future enhancements are available we will be implementing this as well as upgrading the software, future modules include Project Management, licensing, business analytics, and dashboards.

Justification
 The current software was purchased in 2001-2002. Updating the software as updates become available continue to help us streamline our processes and tighten internal controls. As new technology becomes available - we need to update our systems to be able to function as the old software does not run on the older versions of operating systems and they are not supported. Updates were done in 2010 and we are still implementing some of those updates as they were not completely finished by the vendor or we had not had the staff time to implement. New enhancements to keep up to current technology are continuous.
 Funding will come from the Equipment Building and Replacement Fund but operating transfers will be made from each of the enterprise funds (Water, Sewer & Surface Water) to account for their cost of the software. This is consistent with the support and maintenance fee charges in the operating budget.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Technology | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |
| Total | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Equipment/Building Replacement Fund | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |
| Total | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |

Budget Impact/Other
 While there is no hard concrete cost savings, it will provide greater reporting capabilities, reduce staff time spent on running reports as this software will allow for department access to monitor activity. Future costs and efficiency can be achieved by eventually consolidating all City services to one software system, thus eliminating paper flow and double entry.
 Annual maintenance fees for the new modules will be added as we add modules.

| Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------------------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Annual Maintenance Charge | 2,700 | 2,880 | 2,995 | 3,010 | 3,500 | 15,085 |
| Total | 2,700 | 2,880 | 2,995 | 3,010 | 3,500 | 15,085 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Technology
 Contact Finance Director
 Type Technology
 Useful Life
 Category Equipment: Office
 Priority n/a

Project # **12-Tec-002**
 Project Name **Technology and Office Equipment**

Total Project Cost: \$25,000

Description
 Equipment replacement of copiers, computers, and other various equipment and software. As technology advances, so does software and machines. New licenses must be purchased to upgrade and we must upgrade to stay compatible with other systems we integrate with at other levels, for example, website, CTV, State Auditor's Office, etc.

Justification
 Maintenance on all office equipment, computers, and machines plus software upgrades as old operating systems are no longer supported, we are forced to upgrade our systems, some printers and print drivers will no longer work with current equipment in this ever-changing environment.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Equip/Vehicles/Furnishings | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |
| Total | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Equipment/Building Replacement Fund | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |
| Total | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 25,000 |

Budget Impact/Other
 None

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Technology
 Contact Finance Director
 Type Technology
 Useful Life
 Category Equipment: Office
 Priority n/a

Project # **12-Tec-003**
 Project Name **Communications Equipment**

Total Project Cost: **\$10,000**

Description
 Replace and upgrade audio visual and communications equipment as necessary with CTV, website, and in Council Chambers..

Justification
 Communicate information to residents and businesses in a manner and format that is up-to-date, efficient, and professional.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Technology | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 10,000 |
| Total | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 10,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Special Revenue Cable Fund | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 10,000 |
| Total | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 10,000 |

Budget Impact/Other
 Annual equipment maintenance of \$3,000 is currently included in the Cable Fund budget. No additional impact at this time.

| Prior | Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------|---------------------------|----------|------|------|------|------|----------|
| 0 | Annual Maintenance Charge | 0 | | | | | 0 |
| Total | Total | 0 | | | | | 0 |

**Capital Improvement Plan
City of Arden Hills, Minnesota**

2017 thru 2021

Department Water Department
Contact Public Works Director
Type Operational Maintenance
Useful Life 15-17
Category Utility Maintenance
Priority 3 Important

Project # **12-W-001**
Project Name **Water Towers Repair and Repainting**

Total Project Cost: **\$900,000**

Description

The City has two water towers; a 500,000 gallon north tower and a 1,000,000 gallon south tower. Based on a 2005 inspection report some improvements are needed at the south tower. The north tower was last inspected in 2000 and repairs were undertaken in 2001.

In 2012 both water towers were inspected inside and outside using the "float down" method by Kollmer Consultants, inc of Stacy MN. Based upon these inspections the recommendation is to make minor structural modifications to each of towers together with a complete stripping of the existing paint and a full repainting. Kollmer recommended that the south water tower be completed in the next 1 to 2 years and the north water tower be completed in the next 2 to 3 years.

Note: 7/21/14 Council Worksession moved to 2016 due to TCAAP workload in 2015.
Note: 6/4/15 Increased Cost to \$900K due to rising construction costs

Justification

In order to proceed with the repairs at the both towers plans and specs need to be prepared based on most recent inspection of the towers by Kollmer Consultants in 2012.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|----------------|------|------|------|------|----------------|
| Construction/Maintenance | 900,000 | | | | | 900,000 |
| Total | 900,000 | | | | | 900,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------------------|----------------|------|------|------|------|----------------|
| Water Utility Funds | 900,000 | | | | | 900,000 |
| Total | 900,000 | | | | | 900,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Water Department
 Contact Public Works Director
 Type Unassigned
 Useful Life 30
 Category Utility Maintenance
 Priority 3 Important

Project # **13-W-001**
 Project Name **Valve Replacement Program**

Total Project Cost: \$750,000

Description
 Much of the City's water system was built in the 1960's through 1980's and with the City's "hot soils" there have been many failure of valves in the water system. Failures have ranged from deterioriated bolts to mechanical failure. Most valves have been replaced on an emergency basis thus far. This item is an attempt at planning for a certain amount of valve repair/repalcement on an annual basis. It is estimated that over the next 20 years as many as 175 existing valves will need to be repaired/replaced in our system. It is also estimated that the cost per valve will average \$4000 per valve over the 20 years.

Justification

| Prior | Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total | Future |
|---------|--------------------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------|
| 120,000 | Construction/Maintenance | 30,000 | 35,000 | 35,000 | 35,000 | 35,000 | 170,000 | 460,000 |
| | Total | 30,000 | 35,000 | 35,000 | 35,000 | 35,000 | 170,000 | Total |

| Prior | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total | Future |
|---------|---------------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------|
| 120,000 | Water Utility Funds | 30,000 | 35,000 | 35,000 | 35,000 | 35,000 | 170,000 | 460,000 |
| | Total | 30,000 | 35,000 | 35,000 | 35,000 | 35,000 | 170,000 | Total |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Water Department
 Contact Public Works Director
 Type Unassigned
 Useful Life 30
 Category Utility Maintenance
 Priority 3 Important

Project # **15-W-001**
 Project Name **Hydrant Replacement Program**

Total Project Cost: **\$400,000**

Description

The City's water system contains approximately 600 hydrants. It is reasonable to expect over the next 20 years some of those hydrants will need to be replaced. Assuming two per year over the next 20 years would mean that 40 hydrants would be replaced; some of these would be with PMP projects. Each replaced hydrant is estimated to cost \$10,000.

Justification

| Prior | Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total | Future |
|--------------|--------------------------|---------------|------|---------------|------|---------------|----------------|--------------|
| 40,000 | Construction/Maintenance | 40,000 | | 40,000 | | 40,000 | 120,000 | 240,000 |
| Total | Total | 40,000 | | 40,000 | | 40,000 | 120,000 | Total |

| Prior | Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total | Future |
|--------------|---------------------|---------------|------|---------------|------|---------------|----------------|--------------|
| 40,000 | Water Utility Funds | 40,000 | | 40,000 | | 40,000 | 120,000 | 240,000 |
| Total | Total | 40,000 | | 40,000 | | 40,000 | 120,000 | Total |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Water Department
 Contact Public Works Director
 Type Maintenance
 Useful Life 30
 Category Utility Maintenance
 Priority 4 Less Important

Project # 17-W-001
 Project Name CR E2 Water Replacement/Old Hwy 10 Water Loop

Total Project Cost: \$400,000

Description

Water main on CR E2 from Old Hwy 10 to Valentine Hills School has experienced numerous breaks. Most recently in 2015 there were three different breaks when this section of water main had to be fed from the high pressure zone for a few days. All three breaks where due to deterioration of the pipe material until a hole appeared.

Also, by creating a loop in the low pressure system by connecting the water main on CR E with this main on CR E2 the City will be better able to feed the low pressure system by rerouting and not have to rely on temporary feeds from the high pressure system.

Justification

Recent water main breaks (four in 2015) on this section of main on CR E2 have all shown a deteriorated pipe material. Water breaks are exected to continue with high frequency as the pipe material continues to wear thin.

2015 breaks - 3 on 5/12/15 and 1 on 8/4/15. Water main breaks cost between \$5,000 and \$10,000 to repair each break.

Looping the low pressure system along Old Hwy 10 will provide needed additional redunancy in the system.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|----------------|------|------|------|------|----------------|
| Construction/Maintenance | 400,000 | | | | | 400,000 |
| Total | 400,000 | | | | | 400,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---------------------|----------------|------|------|------|------|----------------|
| Water Utility Funds | 400,000 | | | | | 400,000 |
| Total | 400,000 | | | | | 400,000 |

Budget Impact/Other

City of Arden Hills, Minnesota
Capital Improvement Plan
 2017 thru 2021
PROJECTS BY CATEGORY

| Category | Project # | Priority | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--|-------------|----------|----------------|----------------|----------------|----------|----------|------------------|
| Equipment: Public Works | | | | | | | | |
| Replace 1997 Street Sweeper (103) | 13-Eqp-004 | 3 | 250,000 | | | | | 250,000 |
| Large Area Mower (Unit 433) | 16-Eqp-001 | 3 | 40,000 | | | | | 40,000 |
| 1996 Trailer Replacement (Skidsteer/Roller) | 16-Eqp-003 | 4 | | 10,000 | | | | 10,000 |
| Replace Air Compressor (Unit 107) | 16-Eqp-004 | 4 | 29,500 | | | | | 29,500 |
| Replace 2006 Felling Trailer (415) | 17-Eqp-001 | 4 | 10,000 | | | | | 10,000 |
| Brush Chipper (Unit 426) | 17-Eqp-005 | n/a | 38,500 | | | | | 38,500 |
| Replace 2005 Felling Trailer (414) | 18-Eqp-002 | 4 | | | 10,000 | | | 10,000 |
| Replace 1996 Roller (unit 106) | 18-Eqp-005 | 3 | | 41,500 | | | | 41,500 |
| Replace Two 2014 Toro "Z" Lawn Mowers (451 & 452) | 18-Eqp-003 | 3 | | 24,000 | | | | 24,000 |
| Replace Easement Sewer Cleaning Machine (Unit 310) | 19-Eqp-001 | 3 | | | 70,000 | | | 70,000 |
| Add Generator Lift station emergency power | 19-Eqp-002 | 3 | 40,000 | | | | | 40,000 |
| Equipment: Public Works Total | | | 408,000 | 75,500 | 80,000 | 0 | 0 | 563,500 |
| Vehicles | | | | | | | | |
| Replace 2002 One-Ton Truck (Unit 302) | 17-EqpV-001 | 3 | 72,000 | | | | | 72,000 |
| Replace 2001 Dump Truck with Used Dump Truck (116) | 17-EqpV-002 | 3 | 125,000 | 115,000 | | | | 240,000 |
| Replace 2006 F-350 Four Dr w/ traffic sign (#322) | 18-EqpV-005 | 3 | | 55,000 | | | | 55,000 |
| Replace 2008 F-350 Pick-up w/ plow (unit 430) | 19-EqpV-002 | 4 | | | 55,000 | | | 55,000 |
| Vehicles - Community Development | | | | | | | | |
| Replace 2004 Chevrolet Blazer (unit 502) - CD | 18-EqpV-006 | 3 | | 29,000 | | | | 29,000 |
| Vehicles Total | | | 197,000 | 199,000 | 55,000 | 0 | 0 | 451,000 |
| Grand Total | | | 605,000 | 274,500 | 135,000 | 0 | 0 | 1,014,500 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 15
 Category Equipment: Public Works
 Priority 3 Important

Project # **13-Eqp-004**
 Project Name **Replace 1997 Street Sweeper (Unit 103)**

Total Project Cost: \$250,000

Description
 Equipment #105 - 1997 Elgin Street Sweeper.
 VIN # 585165
 Hours 2761 (2015)
 Hours 2864 (2016)
 Mileage 14,356 (2015)
 Mileage 14,946 (2016)

Justification
 Equipment will be 20 years old. Equipment replacement guidelines recommend replacement on 15-17 year cycle
 Repair costs for parts and labor:
 2006 - \$634.96
 2007 - \$764.53
 2008 - \$657.95
 2009 - \$7,627.62
 2010 - \$1,924.07
 2011 - \$2,197.05
 2012 - \$236.56
 2013 - \$1,857.27
 2014 - \$7,779.46
 2015- \$7,907
 2016- \$13,452
 Equipment is still operational and receives limited use which allows replacement to be pushed out to 2017
 This vehicle will be monitored for hours and repairs and adjusted as needed. Previous sweeper increased maintenance costs substantially after Year 15.
 Note: moved from 2015 to 2016 and increased cost based on state contract prices. 5/14/14 TJM
 Note: increase price to \$250K to reflect increases expected in equipment next year. 6/4/15 TJM
 Note: increase price to \$260K to reflect expected price increase 6/30/16 JMA

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|----------------|------|------|------|------|----------------|
| Equip/Vehicles/Furnishings | 260,000 | | | | | 260,000 |
| Estimated Trade-In Value | -10,000 | | | | | -10,000 |
| Total | 250,000 | | | | | 250,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|----------------|------|------|------|------|----------------|
| Equipment/Building Replacement Fund | 250,000 | | | | | 250,000 |
| Total | 250,000 | | | | | 250,000 |

Budget Impact/Other
 Reduce repair and maintenance costs.

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director

| Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|------------------------------------|------|-------------|-------------|------|------|-------------|
| Equipment and Vehicle repair costs | | -300 | -300 | | | -600 |
| Total | | -300 | -300 | | | -600 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 10-12
 Category Equipment: Public Works
 Priority 3 Important

Project # **16-Eqp-001**
 Project Name **Large Area Mower (Unit 433)**

Total Project Cost: **\$40,000**

Description
 Replacement of the 1999 Jacobson (model R-5111) 11 foot mower.
 Ser # 6912902371
 Hours
 2370 (2014)
 2496 (2015)
 2533 (2016)

Justification
 The Jacobson large area mower will be 19 years old in 2018. We have been spending a significant amount on repairs annually
 2009 - \$7,292.11
 2010 - \$38.79
 2011 - \$4,524.10
 2012 - \$415.61
 2013 - \$252.00
 2014 - \$1,356.00
 2015 - \$137.00
 2016 - \$456
 Note: Moved from 2016 to 2017 as the equipment is still operating well and is used less with the addition of the "Z" mowers to the fleet. 5/14/14
 TJM

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | 40,000 | | | | | 40,000 |
| Total | 40,000 | | | | | 40,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|---------------|------|------|------|------|---------------|
| Equipment/Building Replacement Fund | 40,000 | | | | | 40,000 |
| Total | 40,000 | | | | | 40,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 20
 Category Equipment: Public Works
 Priority 4 Less Important

Project # **16-Eqp-003**
 Project Name **1996 Trailer Replacement (Skidsteer/Roller)**

Total Project Cost: **\$10,000**

Description
 Replace equipment # 108 - 1996 Redihaul Trailer 12'.
 VIN #4755122T2V1013037
 #85108
 Note: Changed to pending as this trailer is not used in the winter and is reasonably good condition while other newer trailers that are used in the winter are in poorer condition. 4/14/14 TJM
 Changed back to active as this trailer will be 22 years old in 2018 and paving projects are occupying more of public works time 6/30/16 JMA

Justification
 Equipment will be 20 years old.
 Repair costs for parts and labor:
 2006 - \$365.37
 2007 - \$120.96
 2008 - none to date

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|---------------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | | 10,000 | | | | 10,000 |
| Total | | 10,000 | | | | 10,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|---------------|------|------|------|---------------|
| Equipment/Building Replacement Fund | | 10,000 | | | | 10,000 |
| Total | | 10,000 | | | | 10,000 |

Budget Impact/Other
 Reduce repair costs.

Prior
 -200
 Total

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 20
 Category Equipment: Public Works
 Priority 4 Less Important

Project # **16-Eqp-004**
 Project Name **Replace Air Compressor (Unit 107)**

Total Project Cost: **\$29,500**

Description
 Replace a 1998 air compressor (Unit 107)
 Hours
 462 (2015)
 465 (2016)

Justification
 The current air compressor will be 19 years old in 2016. The air compressor is used for maintaining irrigation systems, jack hammering, installing street sign post, and blowing out cracks prior to crack filling material being applied.
 Note: Moved from 2016 to 2017. 5/14/14 TJM
 Note: adjusted price for 2017 6/30/16 JMA
 Repairs
 2013 \$ 123
 2014 \$74
 2015 \$169
 2016 \$50

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | 32,000 | | | | | 32,000 |
| Estimated Trade-In Value | -2,500 | | | | | -2,500 |
| Total | 29,500 | | | | | 29,500 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|---------------|------|------|------|------|---------------|
| Equipment/Building Replacement Fund | 29,500 | | | | | 29,500 |
| Total | 29,500 | | | | | 29,500 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 13-15
 Category Equipment: Public Works
 Priority 4 Less Important

Project # **17-Eqp-001**
 Project Name **Replace 2006 Felling Trailer (Unit 415)**

Total Project Cost: \$10,000

Description
 Replace 2006 Felling trailer with new 14 foot trailer

Justification
 The 2006 Felling Trailer is showing wear due to significant winter use. It does not meet LMC recommendations for ergonomics of use due to the manual lifting of the access ramps. It is proposed to replace it with a 14 foot trailer with improved ergonomics of operation.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | 10,000 | | | | | 10,000 |
| Total | 10,000 | | | | | 10,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|---------------|------|------|------|------|---------------|
| Equipment/Building Replacement Fund | 10,000 | | | | | 10,000 |
| Total | 10,000 | | | | | 10,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 15-17
 Category Equipment: Public Works
 Priority 4 Less Important

Project # 17-Eqp-005
 Project Name Brush Chipper (Unit 426)

Total Project Cost: \$38,500

Description
 Replace equipment # 426 - 1996 Vermeer Chipper
 VIN # iVRK1513-10000799
 Hours
 587 (2014)
 676 (2015)
 702 (2016)
 #85426
 price increased to reflect 2017 pricing 6/30/16 JMA

Justification
 Equipment will be 21 years old in 2017.
 Repair costs for parts and labor:
 2006 - 150.00
 2007 - 142.61
 2008 - \$476.63
 2009 - \$476.63
 2012- \$1,762.45
 2013- \$1.328
 2014- \$365
 2015- \$810
 2016 - \$0
 This piece of equipment will be 18 years old. However this piece of equipment is not used often and is in good condition. Condition will be monitored and replacement will be adjusted as deemed appropriate.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | 42,000 | | | | | 42,000 |
| Estimated Trade-In Value | -3,500 | | | | | -3,500 |
| Total | 38,500 | | | | | 38,500 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|---------------|------|------|------|------|---------------|
| Equipment/Building Replacement Fund | 38,500 | | | | | 38,500 |
| Total | 38,500 | | | | | 38,500 |

Budget Impact/Other
 Reduce repair costs.

Prior
 -400
 Total

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 13-15
 Category Equipment: Public Works
 Priority 4 Less Important

Project # **18-Eqp-002**
 Project Name **Replace 2005 Felling Trailer Unit (414)**

Total Project Cost: **\$10,000**

Description
 Replace 2005 Felling trailer
 Moved to 2019 due to slowing of TCAAP schedule 6/30/16 JMA

Justification
 Replace the 2005 Felling trailer with a 22 foot trailer with better ergonomics

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|------|---------------|------|------|---------------|
| Equip/Vehicles/Furnishings | | | 10,000 | | | 10,000 |
| Total | | | 10,000 | | | 10,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|------|---------------|------|------|---------------|
| Equipment/Building Replacement Fund | | | 10,000 | | | 10,000 |
| Total | | | 10,000 | | | 10,000 |

Budget Impact/Other

Capital Improvement Plan
 City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 15-17
 Category Equipment: Public Works
 Priority 3 Important

Project # 18-Eqp-005
 Project Name Replace 1996 Roller (unit 106)

Total Project Cost: \$41,500

Description
 1996 880 Wacker Roller (Unit 85106)
 Hours 728 (2016)

Justification
 usefull life on this piece of equipment is 15-17 years in 2018 this will be 22 year old
 this piece of equipment is used for street repairs related various activities including street repair, watermain repairs, storm sewer repairs.
 Repairs
 2013 - \$85
 2014 - \$114
 2015 - \$89

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|---------------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | | 40,000 | | | | 40,000 |
| Estimated Trade-In Value | | 1,500 | | | | 1,500 |
| Total | | 41,500 | | | | 41,500 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|---------------|------|------|------|---------------|
| Equipment/Building Replacement Fund | | 41,500 | | | | 41,500 |
| Total | | 41,500 | | | | 41,500 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 5
 Category Equipment: Public Works
 Priority 3 Important

Project # **18-Eqp-003**
 Project Name **Replace Two 2014 Toro "Z" Lawn Mowers (451 & 452)**

Total Project Cost: **\$24,000**

Description
 Replace Two 2014 Toro "Z" Lawn Mowers
 451 Hours 661 (2015)
 452 Hours 620 (2015)
 451 Hours 805 (2016)
 452 Hours 774 (2016)

Justification
 The trade in value of the Toro "Z" mowers is maximized if they are traded in with warranty still remaining. Due to the amount of time these pieces of equipment are used during the summer months they are traded in on a three year cycle.
 Repairs and maintenance of items not covered under warranty
 #451
 2014 - \$132
 2015 - \$923
 2016 - \$61
 #452
 2014 - \$151
 2015 - \$623
 2016 - \$78

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|---------------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | | 34,000 | | | | 34,000 |
| Estimated Trade-In Value | | -10,000 | | | | -10,000 |
| Total | | 24,000 | | | | 24,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|---------------|------|------|------|---------------|
| Equipment/Building Replacement Fund | | 24,000 | | | | 24,000 |
| Total | | 24,000 | | | | 24,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 20
 Category Equipment: Public Works
 Priority 3 Important

Project # **19-Eqp-001**
 Project Name **Replace Easement Sewer Cleaning Machine (Unit 310)**

Total Project Cost: \$70,000

Description
 The easement sewer cleaning machine is jointly owned by Arden Hills nad White Bear Township. In 2019 it will be 20 years old.

Justification
 The easement sewer cleaning maching will be 20 years old in 2019. Being jointly owned by Arden Hills and White Bear Township this piece of equipment gets significant use every year. The funding for this replacement will be split between the two communities. Coordination will be necessary between the two communities regarding having funding available.

Repairs
 2014 \$120
 2015 \$452
 2016 \$0

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|------|---------------|------|------|---------------|
| Equip/Vehicles/Furnishings | | | 35,000 | | | 35,000 |
| Other | | | 35,000 | | | 35,000 |
| Total | | | 70,000 | | | 70,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|------|---------------|------|------|---------------|
| Equipment/Building Replacement Fund | | | 35,000 | | | 35,000 |
| Total | | | 35,000 | | | 35,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department: Equipment
 Contact: Public Works Director
 Type: Equipment
 Useful Life: 20-25
 Category: Equipment: Public Works
 Priority: 3 Important

Project # **19-Eqp-002**
 Project Name **Add Generator Lift station emergency power**

Total Project Cost: **\$40,000**

Description
 Add 100 KW mobile generator for lift station backup power

Justification
 Lift Station 11 was reconstructed in 2016 and a fenced pad for a backup generator was created. The electrical panel was wired to provide the ability to add a generator in this location. With 14 lift stations through out the city there is a need for backup power source to avoid sewage backups during power outages.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | 40,000 | | | | | 40,000 |
| Total | 40,000 | | | | | 40,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-----------------------------|---------------|------|------|------|------|---------------|
| Sanitary Sewer Utility Fund | 40,000 | | | | | 40,000 |
| Total | 40,000 | | | | | 40,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 10-12
 Category Vehicles
 Priority 3 Important

Project # **17-EqpV-001**
 Project Name **Replace 2002 F-450 One Ton Truck (Unit 302)**

Total Project Cost: \$72,000

Description
 Replace Unit 302 a 2002 F450 one ton truck with plow and sander.
 Mileage 60,759
 mileage 62,274 (2016)

Justification
 The one ton trucks are the "work horse" of the City fleet. They are typically replaced on a 10-12 year rotation. This truck will be 13 years old in 2017. this truck was passed over for replacement when another of the same chassis style needed to be replaced due to a bad motor.
 Repairs
 2013 \$2,568
 2014 \$1,232
 2015 \$405
 2016 \$152

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | 82,000 | | | | | 82,000 |
| Estimated Trade-In Value | -10,000 | | | | | -10,000 |
| Total | 72,000 | | | | | 72,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|---------------|------|------|------|------|---------------|
| Equipment/Building Replacement Fund | 72,000 | | | | | 72,000 |
| Total | 72,000 | | | | | 72,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 10
 Category Vehicles
 Priority 3 Important

Project # 17-EqpV-002
 Project Name Replace 2001 Dump Truck with New Dump Truck (116)

Total Project Cost: \$240,000

Description

In 2011 a used dump truck with plow and de-icing equipment was added to the fleet by purchasing one of Ramsey County's 10 year old vehicles. In 2017 the 2001 used dump truck was planned to be replaced the same way with a vehicle purchased from Ramsey County. Ramsey County does not have any trucks available in 2017 or in the near future.

Replacement of this plow truck will need to be made with a new dump truck with plow, sander and brine delivery system. Build on a truck like this is a 18 month process.

There is currently no back up equipment should this Dump Truck become inoperable.

Mileage 46,468 (2016)
 Hours 3,760 (2016)

Justification

The 2001 dump truck will be 16 years old. A used used dump truck is anticipated to be able to purchase from the Ramsey County fleet.

Repairs
 2013 \$3,212
 2014 \$7,954
 2015 \$3,138
 2016 \$1,842

mileage xxxxx

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|----------------|----------------|------|------|------|----------------|
| Equip/Vehicles/Furnishings | 125,000 | 125,000 | | | | 250,000 |
| Estimated Trade-In Value | | -10,000 | | | | -10,000 |
| Total | 125,000 | 115,000 | | | | 240,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|----------------|----------------|------|------|------|----------------|
| Equipment/Building Replacement Fund | 125,000 | 115,000 | | | | 240,000 |
| Total | 125,000 | 115,000 | | | | 240,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 10-12
 Category Vehicles
 Priority 3 Important

Project # **18-EqpV-005**
 Project Name **Replace 2006 F-350 Four Dr w/ traffic sign (# 322)**

Total Project Cost: \$55,000

Description
 Replace 2006 F-350 four door, 2x4, pick-up outfitted with traffic message board
 VIN #1FTWW30566EA19380
 Mileage 70,160 (2016)

Justification
 Truck will be 12 years old in 2018. Pick Up trucks are programed to be replaced on a 10-12 year cycle.
 Repairs
 2013 - \$103
 2014 - \$880
 2015 - \$397
 2016 - \$444

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|---------------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | | 45,000 | | | | 45,000 |
| Estimated Trade-In Value | | 10,000 | | | | 10,000 |
| Total | | 55,000 | | | | 55,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|---------------|------|------|------|---------------|
| Equipment/Building Replacement Fund | | 35,000 | | | | 35,000 |
| Total | | 35,000 | | | | 35,000 |

Budget Impact/Other
 reduced maintenace costs / maximize resale value

| Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|------------------------------------|------|------------|------|------|------|------------|
| Equipment and Vehicle repair costs | | 200 | | | | 200 |
| Total | | 200 | | | | 200 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 10-12
 Category Vehicles
 Priority 4 Less Important

Project # 19-EqpV-002
 Project Name Replace 2008 F-350 Pick-up w/plow (unit 430)

Total Project Cost: \$55,000

Description
 Replace Pick-up truck (unit 85430)
 2008 - F-350 with plow and power tail gate - 4x4
 VIN #1FTSF31558EE35324
 purchased in 2009
 mileage 60,751 (2016)

Justification
 truck will be 10 years old in 2019, Pick -up trucks are programed to be replaced on a 10-12 year cycle with plowing trucks such as this needing replacement closer to the 10 year mark.
 Repairs
 2013 - \$1,542
 2014 - \$596
 2015 - \$142
 2016 - \$1,648

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|------|---------------|------|------|---------------|
| Equip/Vehicles/Furnishings | | | 45,000 | | | 45,000 |
| Estimated Trade-In Value | | | 10,000 | | | 10,000 |
| Total | | | 55,000 | | | 55,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|------|---------------|------|------|---------------|
| Equipment/Building Replacement Fund | | | 55,000 | | | 55,000 |
| Total | | | 55,000 | | | 55,000 |

Budget Impact/Other
 reduced maintenace costs / maximize resal value

| Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|------------------------------------|------|------|------|------------|------|------------|
| Equipment and Vehicle repair costs | | | | 200 | | 200 |
| Total | | | | 200 | | 200 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Community Devl Dir
 Type Equipment
 Useful Life 10-12
 Category Vehicles - Community Develo
 Priority 3 Important

Project # **18-EqpV-006**
 Project Name **Replace 2004 Chevrolet Blazer (unit 502) - CD**

Total Project Cost: **\$29,000**

Description
 Replace 2004 Chevrolet Blazer (unit 502) building inspection vehicle
 Replacement vehicle programmed to be a Ford Escape 4WD
 VIN #1GNDDT13X94K165862
 Mileage 60,204 (2016)

Justification
 This vehicle will be 14 years old in 2018, equipment replacement guidelines suggest replacing this vehicle on a 10-12 year cycle. With the development of TCAAP residential inspections are anticipated to increase and create more trips on this vehicle.
 Repairs
 2013 - \$607
 2014 - \$3,056
 2015 - \$477

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|---------------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | | 30,000 | | | | 30,000 |
| Estimated Trade-In Value | | -1,000 | | | | -1,000 |
| Total | | 29,000 | | | | 29,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|---------------|------|------|------|---------------|
| Equipment/Building Replacement Fund | | 29,000 | | | | 29,000 |
| Total | | 29,000 | | | | 29,000 |

Budget Impact/Other
 reduce repair costs

| Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|------------------------------------|------|------------|------|------|------|------------|
| Equipment and Vehicle repair costs | | 200 | | | | 200 |
| Total | | 200 | | | | 200 |

City of Arden Hills, Minnesota
Capital Improvement Plan
 2017 thru 2021
PROJECTS BY DEPARTMENT

| Department | Project # | Priority | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|---|-------------|----------|-----------|-----------|-----------|-----------|------|------------|
| Economic Development | | | | | | | | |
| Economic Development Total | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Parks Department | | | | | | | | |
| Development of TCAAP Park Facilities | 17-Park-001 | 3 | | 2,500,000 | 2,500,000 | 2,000,000 | | 7,000,000 |
| Parks Department Total | | | 0 | 2,500,000 | 2,500,000 | 2,000,000 | 0 | 7,000,000 |
| Public Safety | | | | | | | | |
| Public Safety Total | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Sanitary Sewer Department | | | | | | | | |
| TCAAP Trunk Sanitary Sewer and Lift Station | 16-Sew-001 | 3 | 1,200,000 | | | | | 1,200,000 |
| Sanitary Sewer Department Total | | | 1,200,000 | 0 | 0 | 0 | 0 | 1,200,000 |
| Street Department | | | | | | | | |
| Street Department Total | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Surface Water Management Department | | | | | | | | |
| Surface Water Management Dept Total | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Technology | | | | | | | | |
| Technology Total | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Water Department | | | | | | | | |
| Department | Project # | Priority | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
| New Booster Station | 16-W-001 | 3 | 1,000,000 | | | | | 1,000,000 |
| TCAAP Trunk Water Improvements (Spine Road) | 16-W-002 | 3 | 1,000,000 | | | | | 1,000,000 |
| TCAAP Water Tower | 16-W-003 | 3 | | | | 4,800,000 | | 4,800,000 |
| Water Total | | | 2,000,000 | 0 | 0 | 4,800,000 | 0 | 6,800,000 |
| Grand Total | | | 3,200,000 | 3,200,000 | 2,500,000 | 6,800,000 | 0 | 15,000,000 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Parks Department
 Contact Public Works Director
 Type Improvement
 Useful Life 20
 Category Park Capital Improvements
 Priority 3 Important

Project # **17-Park-001**
 Project Name **Development of TCAAP Park Facilities**

Total Project Cost: \$7,000,000

Description
 This item is for the park development (not land acquisition) of park areas throughout TCAAP.

Justification
 Ramsey County will be providing park land with the development of TCAAP but the City will be required to develop the parks. An estimate has been made of \$7.0 million for full build out of all the park areas according to the approved plan.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|------|------------------|------------------|------------------|------|------------------|
| Construction/Maintenance | | 2,500,000 | 2,500,000 | 2,000,000 | | 7,000,000 |
| Total | | 2,500,000 | 2,500,000 | 2,000,000 | | 7,000,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--|------|------------------|------------------|------------------|------|------------------|
| Park Capital Fund (Park Dedication Fees) | | 2,500,000 | 2,500,000 | 2,000,000 | | 7,000,000 |
| Total | | 2,500,000 | 2,500,000 | 2,000,000 | | 7,000,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Sanitary Sewer Department
 Contact Public Works Director
 Type Improvement
 Useful Life 30
 Category Utility Improvements
 Priority 3 Important

Project # **16-Sew-001**
 Project Name **TCAAP Trunk Sanitary Sewer & Lift Station**

Total Project Cost: \$1,200,000

Description
 As the TCAAP site develops it will be served by a trunk sanitary sewer system and a lift station that collects all of TCAAP sewer flow (only TCAAP flow) and carries it through Mounds View to a MCES regional lift station.

Justification
 As Ramsey County starts to develop TCAAP infrastructure the City's sanitary sewer system will be placed in the Spine Road right-of-way.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|------------------|------|------|------|------|------------------|
| Construction/Maintenance | 1,200,000 | | | | | 1,200,000 |
| Total | 1,200,000 | | | | | 1,200,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------|------------------|------|------|------|------|------------------|
| TCAAP Reimbursements | 1,200,000 | | | | | 1,200,000 |
| Total | 1,200,000 | | | | | 1,200,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Water Department
 Contact Public Works Director
 Type Improvement
 Useful Life 30
 Category Utility Improvements
 Priority 3 Important

Project # **16-W-001**
 Project Name **TCAAP New Booster Station**

Total Project Cost: **\$1,000,000**

Description
 This item would construct an additional Water Booster Station near Old Highway 10 and I-694 to pump water from the low pressure zone to the high pressure zone. The booster station would be built on excess Ramsey County right of way and the structure would be made to look like a residential house due to its location.

Justification
 The City's water system currently only has one booster station providing water to the high pressure zone through a single crossing of i-694. If anything (lighting strike, wind storm, etc.) knocked out the current booster station for any length of time the high pressure zone could be out of water after the the half million gallon tower is drained.
 Construction of a second booster station will provide needed redundancy in the system so if one booster station fails or is taken down for service the high pressure zone will still be provided water.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|------------------|------|------|------|------|------------------|
| Construction/Maintenance | 1,000,000 | | | | | 1,000,000 |
| Total | 1,000,000 | | | | | 1,000,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------|------------------|------|------|------|------|------------------|
| TCAAP Reimbursements | 600,000 | | | | | 600,000 |
| Water Utility Funds | 400,000 | | | | | 400,000 |
| Total | 1,000,000 | | | | | 1,000,000 |

Budget Impact/Other

**Capital Improvement Plan
City of Arden Hills, Minnesota**

2017 thru 2021

Department Water Department
Contact Public Works Director
Type Improvement
Useful Life 30
Category Utility Improvements
Priority 3 Important

Project # **16-W-002**
Project Name **TCAAP Trunk Water Improvements (Spine Road)**

Total Project Cost: \$1,000,000

Description
With the Ramsey County construction of the Spine Road, a TCAAP City trunk water main will also be installed. This improvement will be primarily in the Spine Road right-of-way but will include some water main outside of the right-of-way to get to the water tower site and the connection points to the City's existing system.

Justification
In order to prepare the TCAAP site for development the City needs to extend trunk utilities into through the site with the construction of the Spine Road.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|------------------|-------------|-------------|-------------|-------------|------------------|
| Construction/Maintenance | 1,000,000 | | | | | 1,000,000 |
| Total | 1,000,000 | | | | | 1,000,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|------------------------|------------------|-------------|-------------|-------------|-------------|------------------|
| TCAAP Reimbursements | 1,000,000 | | | | | 1,000,000 |
| Total | 1,000,000 | | | | | 1,000,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Water Department
 Contact Public Works Director
 Type Improvement
 Useful Life 30
 Category Utility Improvements
 Priority 3 Important

Project # **16-W-003**
 Project Name **TCAAP Water Tower**

Total Project Cost: **\$4,800,000**

Description
 Construct a new 1.0-1.5 million gallon water tower (actual size to be determined in final design) on the TCAAP site.

Justification
 TCAAP will be served with water by expanding the City's current high pressure zone. Currently the high pressure zone only has a half million gallons of elevated storage. This amount of storage is not sufficient to provide for domestic consumption and fire flow. The additional tower will provide the needed storage. A site for the tower will be provided by Ramsey County on the TCAAP site.
 Moved to 2020 as need is not anticipated until development advances demand 7/1/16 JMA

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--------------------------|------|------|------|------------------|------|------------------|
| Construction/Maintenance | | | | 4,800,000 | | 4,800,000 |
| Total | | | | 4,800,000 | | 4,800,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------|------|------|------|------------------|------|------------------|
| TCAAP Reimbursements | | | | 3,000,000 | | 3,000,000 |
| Water Utility Funds | | | | 1,800,000 | | 1,800,000 |
| Total | | | | 4,800,000 | | 4,800,000 |

Budget Impact/Other

City of Arden Hills, Minnesota
 Capital Improvement Plan
 2017 thru 2021

PROJECTS BY CATEGORY

| Category | Project # | Priority | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|--|-------------|----------|---------------|----------|----------------|----------------|---------------|----------------|
| Equipment: Public Works | | | | | | | | |
| Add Two Toro "Z" Lawn Mowers (TCAAP) | 18-Eqp-001 | 3 | | | 17,000 | | 18,000 | 35,000 |
| Add Felling Trailer (TCAAP) | 18-Eqp-004 | 3 | | | 10,000 | | | 10,000 |
| Equipment: Public Works Total | | | 0 | 0 | 27,000 | 0 | 18,000 | 45,000 |
| Vehicles | | | | | | | | |
| Add Pick-up Truck (TCAAP) | 17-EqpV-004 | 3 | 35,000 | | | | | 35,000 |
| Add Plow Truck w/Plow, Wing and Sander (TCAAP) | 18-EqpV-001 | 4 | | | 125,000 | 125,000 | | 250,000 |
| Add One-Ton Truck /Plow, Wing and Sander (TCAAP) | 18-EqpV-002 | 4 | | | 82,000 | | | 82,000 |
| Add F350 Pick-up with Lift Gate (TCAAP) | 18-EqpV-003 | 4 | | | | 42,000 | | 42,000 |
| Add Pick-up Truck (TCAAP) | 18-EqpV-004 | 4 | | | 40,000 | | | 40,000 |
| Vehicles Total | | | 35,000 | 0 | 247,000 | 167,000 | 0 | 449,000 |
| Grand Total | | | 35,000 | 0 | 274,000 | 167,000 | 18,000 | 494,000 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 5
 Category Equipment: Public Works
 Priority 3 Important

Project # **18-Eqp-001**
 Project Name **Add Two Toro "Z" Lawn Mowers (TCAAP)**

Total Project Cost: **\$35,000**

Description
 Add a third and fourth Toro "Z" mower to the fleet anticipating the start to development of what will ultimately be approximately 20 acres of park area in TCAAP along with medians and boulevard along the Spine Road and Thumb Road .
 Moved to 2019/2021 due to slowing of TCAAP schedule 6/30/16 JMA

Justification
 Expansion of the grass area to be mowed and maintain due to TCAAP development is anticipated to have begun by 2018 and continue to grow as TCAAP builds out. At full deveopment it is anticipated a second mowing crew will be needed to keep up.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|------|---------------|------|---------------|---------------|
| Equip/Vehicles/Furnishings | | | 17,000 | | 18,000 | 35,000 |
| Total | | | 17,000 | | 18,000 | 35,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|------|---------------|------|---------------|---------------|
| Equipment/Building Replacement Fund | | | 17,000 | | 18,000 | 35,000 |
| Total | | | 17,000 | | 18,000 | 35,000 |

Budget Impact/Other

| Budget Items | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|------------------------------------|------|------|------------|------------|------------|------------|
| Equipment and Vehicle repair costs | | | 250 | 250 | 250 | 750 |
| Total | | | 250 | 250 | 250 | 750 |

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 10-12
 Category Equipment: Public Works
 Priority 3 Important

Project # **18-Eqp-004**
 Project Name **Add Felling Trailer (TCAAP)**

Total Project Cost: **\$10,000**

Description
 Add a Felling trailer to the fleet to allow for a second mowing crew.
 Moved to 2019 due to slowing of TCAAP Schedule 6/30/16 JMA

Justification
 Over the course of the development of TCAAP a second mowing crew will need to be added. The trailer will be necessary to carry the mowers and other grass maintenance equipment.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|------|---------------|------|------|---------------|
| Equip/Vehicles/Furnishings | | | 10,000 | | | 10,000 |
| Total | | | 10,000 | | | 10,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|------|---------------|------|------|---------------|
| Equipment/Building Replacement Fund | | | 10,000 | | | 10,000 |
| Total | | | 10,000 | | | 10,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 10-12
 Category Vehicles
 Priority 3 Important

Project # **17-EgpV-004**
 Project Name **Add Pick-up Truck (TCAAP)**

Total Project Cost: \$35,000

Description
 Add a pick-up truck to the public works fleet for the sanitary sewer and water service inspections in TCAAP.
 Inspections and locates expected to begin in 2017 6/30/16 JMA

Justification
 Public Works does the inspections of new sanitary sewer and water services. With the development of TCAAP expected to begin in 2017 with homes and other buildings this will be a busy position. In order to not take away from current crew capacity as TCAAP develops it may be necessary to add a dedicated staff member and vehicle to provide this service.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|---------------|------|------|------|------|---------------|
| Equip/Vehicles/Furnishings | 35,000 | | | | | 35,000 |
| Total | 35,000 | | | | | 35,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|---------------|------|------|------|------|---------------|
| Equipment/Building Replacement Fund | 35,000 | | | | | 35,000 |
| Total | 35,000 | | | | | 35,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 15
 Category Vehicles
 Priority 4 Less Important

Project # **18-EqpV-001**
 Project Name **Add Plow Truck w/Plow, Wing and Sander (TCAAP)**

Total Project Cost: **\$250,000**

Description
 Add the fourth plow truck with plow, wing and sander due to the start of the development of TCAAP.
 Note: 7/21/14 Council Worksession moved to 2019, will continue to evaluate as TCAAP starts to develop
 Moved to 2020 delivery with 18 month build period 6/30/16 JMA

Justification
 As TCAAP develops the City will have more streets to plow and maintain. In order for the same level of service to be maintained in the existing City at some point a fourth plow route will need to be established. As this date comes closer, the development of TCAAP will be reviewed and this addition to the fleet will be pushed out if appropriate.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|-------------|-------------|----------------|----------------|-------------|----------------|
| Equip/Vehicles/Furnishings | | | 125,000 | 125,000 | | 250,000 |
| Total | | | 125,000 | 125,000 | | 250,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|-------------|-------------|----------------|----------------|-------------|----------------|
| Equipment/Building Replacement Fund | | | 125,000 | 125,000 | | 250,000 |
| Total | | | 125,000 | 125,000 | | 250,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 10-12
 Category Vehicles
 Priority 4 Less Important

Project # **18-EqpV-002**
 Project Name **Add One-Ton Truck w/Plow and Sander (TCAAP)**

Total Project Cost: **\$82,000**

Description
 Add a one-ton truck with plow and sander to the City fleet for the maintance of new infrastructure in TCAAP
 Moved to 2019 with the slowing of the TCAAP schedule 6/30/16 JMA

Justification
 With the development of TCAAP it will be necessary to add to the City fleet in order to maintain the same level of service. As 2018 nears the development in TCAAP will be reviewed and the year of purchase may be adjusted.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|------|---------------|------|------|---------------|
| Equip/Vehicles/Furnishings | | | 82,000 | | | 82,000 |
| Total | | | 82,000 | | | 82,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|------|---------------|------|------|---------------|
| Equipment/Building Replacement Fund | | | 82,000 | | | 82,000 |
| Total | | | 82,000 | | | 82,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 10-12
 Category Vehicles
 Priority 4 Less Important

Project # **18-EqpV-003**
 Project Name **Add F350 Pick-up with Lift Gate (TCAAP)**

Total Project Cost: \$42,000

Description
 Add a F350 pickup with lift gate to the fleet for the infrastructure in TCAAP
 NOTE: 7/21/14 Council Work Session moved to 2019, will continue to evaluate as TCAAP starts to develop.
 Moved to 2020 with the slowing of the TCAAP schedule 6/30/16 JMA

Justification
 With the development of TCAAP infrastructure a pickup will need to be added to the fleet to maintain the same level of services throughout the City. As 2018 nears the development in TCAAP will be reviewed and the purchase date will be modified if appropriate.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|------|------|---------------|------|---------------|
| Equip/Vehicles/Furnishings | | | | 42,000 | | 42,000 |
| Total | | | | 42,000 | | 42,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|------|------|---------------|------|---------------|
| Equipment/Building Replacement Fund | | | | 42,000 | | 42,000 |
| Total | | | | 42,000 | | 42,000 |

Budget Impact/Other

Capital Improvement Plan
City of Arden Hills, Minnesota

2017 thru 2021

Department Equipment
 Contact Public Works Director
 Type Equipment
 Useful Life 13-15
 Category Vehicles
 Priority 3 Important

Project # **18-EqpV-004**
 Project Name **Add Pick-up Truck (TCAAP)**

Total Project Cost: \$40,000

Description
 Add pick-up truck to the public works fleet.
 Moved to 2019 with the slowing of the TCAAP schedule 6/30/16 JMA

Justification
 With the need to start a second mowing crew for the TCAAP development a truck will be needed to pull the equipment trailer and transport the workers.

| Expenditures | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|----------------------------|------|------|---------------|------|------|---------------|
| Equip/Vehicles/Furnishings | | | 40,000 | | | 40,000 |
| Total | | | 40,000 | | | 40,000 |

| Funding Sources | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
|-------------------------------------|------|------|---------------|------|------|---------------|
| Equipment/Building Replacement Fund | | | 40,000 | | | 40,000 |
| Total | | | 40,000 | | | 40,000 |

Budget Impact/Other