



**Capital
Improvement
Plan
FY15-FY19**



CAPITAL IMPROVEMENT PLAN SUMMARY

The Village has over \$200 million in infrastructure and other capital assets. The Village has made a significant investment in regards to its aging infrastructure. Millions of dollars are spent annually to maintain these assets. Funding for the non-water/sewer capital projects can come from a variety of sources. Motor fuel taxes from the State, grants, impact fees, bond issuances, and general fund reserves help pay for these improvements.

Water/sewer charges to customers along with connection fees pay for the capital items in the water/sewer enterprise fund.

In preparing the Capital Improvement Plan, various factors are used in establishing the priority level for each project. Infrastructure condition, intensity of use, and cost are all contemplated while developing the Capital Improvement Plan.

Listed below are the requested dollar amounts for each of the major classes of fixed assets for the next five years. Each capital asset group has its own page with detail on the specific projects on the following pages (pages 62–68) with the corresponding funding sources.

Non-Water/Sewer

	FY2015	FY2016	FY2017	FY2018	FY2019	Total
Streets	2,250,000	1,600,000	1,600,000	1,950,000	1,350,000	8,750,000
Facilities	628,000	5,560,000	205,000	185,000	125,000	6,703,000
Stormwater	3,250,000	250,000	270,000	470,000	770,000	5,010,000
Transportation	5,698,990	1,305,295	2,260,000	3,000,000	3,250,000	15,514,285
Vehicles/Equip	954,000	1,421,000	871,000	1,264,000	728,000	5,238,000
Total	12,780,990	10,136,295	5,206,000	6,869,000	6,223,000	41,215,285

Water/Sewer

	FY2015	FY2016	FY2017	FY2018	FY2019	Total
Water infrastructure	2,160,000	780,000	1,175,000	1,420,000	820,000	6,355,000
Sewer infrastructure	2,290,000	880,000	880,000	380,000	880,000	5,310,000
Other	997,000	1,645,000	797,000	850,000	690,000	4,979,000
Total	5,447,000	3,305,000	2,852,000	2,650,000	2,390,000	16,644,000



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STREETS

The primary revenue sources for street maintenance are the motor fuel tax, along with the Road & Bridge property tax (these funds are on pages 41 and 45). Engineering uses its 5 year Road Improvement Plan using a pavement condition index to guide the process in determining the streets to reconstruct or resurface on an annual basis.

In the FY15 Streets program, the streets to be rehabilitated are

- Dublin Drive
- Lucerne Drive
- Beach Place
- Glendale Place
- Norton Avenue
- Prairie Avenue (Orchard-Courtland)
- Lincoln Avenue (Orchard-Courtland)

- The West Hawley Street Reconstruction project is anticipated to begin construction this year. This reconstruction project is a collaborative effort between Lake County Division of Transportation and the Village that includes utility replacement, traffic signal installation at California Avenue, and construction of a multi-use path
- East Hawley Street—If the County elects to move forward, this project would extend the improvements of the West Hawley project to Route 176 from the current terminus just east of Seymour Avenue
- East Crystal Street—This project proposes to rehabilitate the access road for Public Works and Engineering vehicles. The pavement has failed due to improper drainage in the area
- Emergency Road Resurfacing—Due to the extreme conditions suffered through the winter season, many roads require immediate attention that were not originally programmed in short-term within the CIP.

	FY2015	FY2016	FY2017	FY2018	FY2019	Total
Street Program	1,350,000	1,350,000	1,350,000	1,350,000	1,350,000	6,750,000
West Hawley	400,000	250,000	0	0	0	650,000
East Hawley	0	0	250,000	600,000	0	850,000
Emergency Road	250,000	0	0	0	0	250,000
East Crystal	250,000	0	0	0	0	250,000
Total	2,250,000	1,600,000	1,600,000	1,950,000	1,350,000	8,750,000



PUBLIC FACILITIES

The major item in this category is the construction of the new Village Hall. Funding for the new Village Hall will come from general fund reserves along with the Capital Development fund (page 49).

Requested FY15 Projects

- Completion of the new Village Hall —\$500,000
- Police Department Lobby Security Improvements—\$50,000
- Public Works—HVAC Unit—\$28,000
- Public Works—Building Improvements—\$50,000

Requested FY16 Projects

- Police Department Parking Lot Expansion—\$260,000
- Police Department Card Reader System—\$65,000
- Public Works Key Card Access —\$65,000
- Public Works 205 N Archer Parking Lot—\$50,000
- Public Works Design of Garage Expansion—\$50,000
- Public Works Vehicle Maintenance Garage—\$70,000
- Fire Department Station #3 Construction—\$5,000,000

Requested FY17 Projects

- Public Works Roof Replacement Building #3—\$170,000
- Fire Department Station #1 New Carpeting—\$35,000

Requested FY18 Projects

- Public Works Roof Replacement Building #5—\$85,000
- Tire Disposal Storage Center—\$50,000
- Fire Department—Station #1 Parking Lot Replacement—\$50,000

Requested FY19 Projects

- Public Works Video Surveillance—\$125,000

	FY2015	FY2016	FY2017	FY2018	FY2019	Total
Village Hall	500,000	0	0	0	0	500,000
Police Station	50,000	325,000	0	0	0	375,000
Public Works	78,000	235,000	170,000	135,000	125,000	743,000
Fire Stations	0	5,000,000	35,000	50,000	0	5,085,000
Total	628,000	5,560,000	205,000	185,000	125,000	6,703,000



STORMWATER

Funding for this fund is primarily from development fees, per Village ordinance. With the recession, these funds have decreased significantly (refer to page 50 for the Stormwater management fund). If stormwater development fees are not sufficient, general fund reserves will need to be used for these enhancements.

General fund reserves are proposed to be utilized for the Seavey Drainage project.

- NPDES MS4 Compliance—This annual expenditure provides the Village with a consultant to monitor the Village’s performance related to several goals that the IEPA establishes for best management of the storm sewer system
- Seavey Drainageway Improvements—Started several years ago, this project requires completion. Due to the period of time lapsed since the original project design, revised engineering and remediation work on the first phase must be completed. Proposed construction would then complete the streambank restoration project from the Com Ed ROW to Shaddle Avenue
- Annual Street Improvement—Funding allocated toward storm sewer repairs or improvements performed in conjunction with the annual street improvement program
- East Hawley Street Improvements—Similar to the West Hawley Street project, this would be a joint project between the Village and Lake County Department of Transportation and would seek to reconstruct Hawley from the current project limits (Seymour Avenue to Route 176). This proposal seeks to provide funding for additional storm sewer improvements that solve regional drainage problems in the vicinity outside of the Right-of-Way. This project is in the preliminary discussion phase.
- Allanson Road/Lake Street/Diamond Lake—Stormwater infrastructure improvements associated with the realignment of the intersection

	FY2015	FY2016	FY2017	FY2018	FY2019	Total
Seavey	3,000,000	0	0	0	0	3,000,000
Street Program	230,000	230,000	250,000	250,000	250,000	1,210,000
East Hawley	0	0	0	200,000	0	200,000
Allanson, Lake	0	0	0	0	500,000	500,000
NPDES Permit	20,000	20,000	20,000	20,000	20,000	100,000
Total	3,250,000	250,000	270,000	470,000	770,000	5,010,000



TRANSPORTATION

These expenses are for additions to the Village’s transportation system including pedestrian walkways, intersection improvements, bike paths, and new roadways. Historically, the funding source for Public Transportation projects has been transportation impact fees, per Village ordinance. Funding from Canadian National Railroad recently provided the Village with resources to complete various transportation projects. The transportation fund is illustrated on page 48.

Proposed Projects

- Intersection improvements at Route 60/83/176 intersection near the Mundelein Town Center, funded by a \$5 million State Grant (reported in the capital projects fund on page 57)
- Quiet Zone Improvements—Removal of Automated Horn System concrete foundations in CN Right-of-Way
- Allanson Bike Path—Design/Construction of a bike path on the south side of Allanson Road from Washington Boulevard to Butterfield Road. Grant funding may be available
- Midlothian Multi-Use Path—Construction of a multi-use path from Hawley to Route 60/83 to allow for improved pedestrian access to retail center at the Midlothian Road and Route 60/83 intersection
- McKinley Pedestrian Overpass downtown over the railroad tracks. Currently there is no available funding for the Downtown Pedestrian Overpass without grant assistance
- Grade Separation at Route 60/83 Railroad Crossing—Costs for IDOT consultant to complete feasibility study on grade separation
- Lake Street Streetscape—Completion of the downtown streetscape project (80% funded by IDOT)
- Route 45 Sidewalk—Completion of the sidewalk along the west side of Lake Street (80% funded by IDOT)
- Longmeadow Estates Multi-Use Path-Installation of a pedestrian path from the Longmeadow Estates subdivision to allow for access to the Mechanics Grove school campus
- Route 176 Multi-Use Path—Installation of a path along Route 176 to provide safer pedestrian access along with connectivity to existing County pedestrian path network
- Allanson/Diamond Lake/Lake Street Intersection Improvements—Design and construction costs related to the realignment of the intersection to improve traffic and economic development

	FY2015	FY2016	FY2017	FY2018	FY2019	Total
Town Center (60/83/176)	4,900,000	100,000	0	0	0	5,000,000
Quiet Zone Improvements	20,000	0	0	0	0	20,000
Allanson Bike Path	0	0	35,000	425,000	0	460,000
Midlothian Multi-Use Path	35,000	575,000	0	0	0	610,000
Pedestrian Overpass	0	400,000	2,000,000	2,000,000	0	4,400,000
60/83 Grade Crossing	150,000	200,295	0	0	0	350,295
Lake St Streetscape	150,082	0	0	0	0	150,082
Traffic Signal Park Dist/Midl	350,000	0	0	0	0	350,000
Route 45 Sidewalk	93,908	0	0	0	0	93,908
Longmeadow Estates Path	0	30,000	225,000	0	0	255,000
Route 176 Multi-Use Path	0	0	0	250,000	0	250,000
Allanson/Diamond Lake/Lake	0	0	0	325,000	3,250,000	3,575,000
Total	5,698,990	1,305,295	2,260,000	3,000,000	3,250,000	15,514,285



VEHICLES/EQUIPMENT

A thorough investigation is done for each vehicle and equipment near the end of its useful life. These purchases are made through the Equipment Replacement Fund (see page 53). This fund was established in 2010 and funded by the General Fund on an annual basis. The budgeted FY2015 funding is \$1,000,000.

FY2015 Budgeted Purchases

See page 53 for the budgeted 2015 purchases.

FY2016 Requests

- Ladder Truck (50% Down Payment) –\$450,000
- Fire Admin Vehicles \$78,000
- Police Vehicles—\$161,000
- PW Street Sweeper—\$275,000
- PW 3 Ton Dump Truck—\$145,000
- 4 PW Vehicles— \$111,000

FY2017 Requests

- Ladder Truck (2nd Payment) –\$450,000
- Fire Engine—\$500,000
- Fire Rescue Boat & Trailer—\$14,000
- Police Vehicles—\$136,000
- 4 PW Vehicles—\$221,000

FY2018 Requests

- Fire Engine—\$530,000
- Police Vehicles—\$216,000
- 9 PW Vehicles—\$518,000

FY2019 Requests

- Ambulance—\$226,000
- Fire Station #1 Generator—\$71,000
- Police Vehicles—\$171,000
- 6 PW Vehicles—\$260,000

	FY2015	FY2016	FY2017	FY2018	FY2019	Total
Police	181,000	161,000	136,000	216,000	171,000	865,000
Fire	236,000	528,000	964,000	530,000	297,000	2,555,000
Public Works	290,000	531,000	221,000	518,000	260,000	1,820,000
Other	33,000	0	0	0	0	33,000
Total	740,000	1,220,000	1,321,000	1,264,000	728,000	5,273,000



WATER/SEWER CAPITAL IMPROVEMENTS

All of these capital items are paid from water/sewer charges along with impact and connection fees. Whenever possible, water/sewer projects are completed along with street projects for efficiencies. In accordance with the 2009 Board plan, \$1 million is generated annually to fund these improvements by transferring money to the depreciation account.

During FY2014, the Village instituted an overhead sanitary program to assist homeowners with basements that experience flooding due to the back-up of the Village's sanitary sewer system. This program is proposed to continue in FY2015 and beyond.

FY2015

- Relocation and replacement of 4,700 feet of 8 inch watermain with 12 inch PVC along with replacement of 3,600 of the sewer main on West Hawley from Midlothian Road to Prairie Avenue—\$1,425,000
- Replace and relocate approximately 4,600 feet of 10 inch watermain with 12 inch PVC on Route 60 from Butterfield Road to Lake Street—\$1,100,000
- Sanitary Sewer Service to South Butterfield Road—\$400,000
- Design work for water and sewer replacement on Winthrop Court, Clearbrook Park Drive, and Stratford Lane in conjunction with the sewer improvements proposed with the CDBG program—\$45,000
- CDBG Sanitary Sewer Rehabilitation Program—\$250,000
- Route 45/Allanson Road Sanitary Rebuilds—Relocation of 5 manholes and 1,000 feet of sewer cannot be rehabilitated in place. Additional pipe upsizing is proposed in this project—\$925,000
- Design engineering for lift station rehabilitation—\$80,000
- Annual Road Improvement Program Utility Repairs—\$205,000
- Sanitary Sewer Overflow Rebate Program—\$20,000
- Replacement Meters—\$50,000
- Plant Pump Repair Maintenance—\$40,000
- Water System SCADA/Remote Server Upgrades—\$35,000
- Water System Master Plan—\$90,000
- Water Reclamation Facility Repairs—\$173,000

Vehicles/Equipment

- Sewer Cleaning Truck—\$380,000, Utility Vehicle—\$9,000, Service Van—\$30,000,

FY2016

- Capacity management plan to comply with IEPA regulation on documenting current operational Standards and guidelines—\$75,000
- Construction of water and sewer replacement on Winthrop Ct., Clearbrook Park Dr. and Stratford Ln. in conjunction with the sewer improvements proposed with the CDBG program—\$600,000
- Design engineering for North Hills Subdivision Water Main replacement—\$65,000
- Design engineering for Walnut St. Sanitary Sewer Improvements—\$45,000
- Lift Station #5 and 6 rebuild—\$630,000
- Annual Road Improvement Program Utility Repairs—\$225,000
- Sanitary Sewer Overflow Rebate Program—\$20,000
- Replacement Meters—\$50,000
- Winchester and Campus Facility Conversion (Chlorine Gas to Sodium Hypochlorite Liquid)—\$50,000
- Plant Pump Repair Maintenance—\$40,000
- Aeration Improvements for Phosphorus Removal at WRF—\$1,250,000

Vehicles/Equipment

- 3-ton dump truck—\$175,000, Pickup Truck—\$40,000, 4" Trash Pump w/ Trailer—\$40,000



WATER/SEWER CAPITAL IMPROVEMENTS

FY2017

Maple St. Water Main Removal/Relocation/Rehabilitation Design Engineering—\$85,000

Well Station Repairs/Rehabilitation—\$125,000

- Replacement Meters—\$50,000
- Design/Construction of Roof Replacement, Water Admin Office 428 N Chicago—\$70,000
- Annual Road Improvement Program Utility Repairs—\$275,000
- North Hills Subdivision Water Main Replacement project—\$925,000
- Walnut St. Sanitary Sewer Replacement project—\$500,000
- CDBG Sanitary Sewer Rehabilitation Program—\$250,000
- Route 83 Water Tower Repainting—\$250,000
- Water Reclamation Facility Repairs—\$155,000
- Plant Pump Repair Maintenance—\$40,000
- Sanitary Sewer Overflow Rebate Program—\$20,000

Vehicles/Equipment

- SUV Trailblazer—\$31,000, Skid Loader—\$65,000, LS#1 and 3 Generators—\$40,000, 2 Trailers—\$16,000

FY2018

- Maple St. Water Main Removal/Relocation/Rehabilitation Construction—\$1,250,000

- Annual Road Improvement Program Utility Repairs—\$280,000
- CDBG Sanitary Sewer Rehabilitation Program—\$250,000
- Sanitary Sewer Overflow Rebate Program—\$20,000
- Replacement Meters—\$50,000
- Pump Repairs at all Water Pump Stations (seal leaks)—\$110,000
- Roof Replacement at Route 176 Pump Station—\$75,000
- Water Reclamation Facility Repairs—\$420,000

Vehicles/Equipment

- Service Van—\$30,000, End Loader/Backhoe—\$125,000, Lfit Station Generators—\$40,000

FY2019

- Allanson/Diamond Lake/Route 45 Water and Sewer Improvements—\$1,150,000
- Replacement Meters—\$50,000
- CDBG Sanitary Sewer Rehabilitation Program—\$250,000
- Water Reclamation Facility Repairs—\$140,000
- Sanitary Sewer Overflow Rebate Program—\$20,000
- Annual Road Improvement Program Utility Repairs—\$280,000
- Division Water Tower Repainting—\$250,000

Vehicles/Equipment

- 1-ton Utility pickup w/ crane—\$75,000, End loader/backhoe—\$175,000

	FY2015	FY2016	FY2017	FY2018	FY2019	Total
Water Mains	2,160,000	780,000	1,175,000	1,420,000	820,000	6,355,000
Sewers	1,265,000	155,000	860,000	360,000	860,000	3,500,000
Lift Stations	80,000	630,000	0	0	0	710,000
Manhole Rebuilds	925,000	0	0	0	0	925,000
Sanitary Program	20,000	20,000	20,000	20,000	20,000	100,000
Facilities	488,000	1,390,000	645,000	655,000	440,000	3,618,000
Vehicles	419,000	255,000	152,000	195,000	250,000	1,271,000
Capacity/Master Plans	90,000	75,000	0	0	0	165,000
Total	5,447,000	3,305,000	2,852,000	2,650,000	2,390,000	16,644,000