

Stormwater Management Phase 1 Projects

Capital improvement projects that are identified in the Detailed Watershed Plans and designed to address overbank flooding and streambank erosion issues along regional waterways

Stormwater Management Phase 2 Projects

Projects that involve working with local communities and agencies to address local drainage problems. The project types under Phase 2 include green infrastructure, localized detention, upsizing critical storm sewers and culverts, pump stations, and establishing drainage ways.

Flood-Prone Property Acquisitions

Projects that involve partnerships with local communities to acquire flood-damaged and flood-prone homes on a voluntary basis. The MWRD is currently working with several communities to acquire flood-prone homes which will be removed from the floodplain and preserved as open space. Additional acquisitions are being evaluated, and agreements for the purchase, structure removal, and transfer of property to the appropriate government agency will follow.

Tunnel and Reservoir Plan (TARP)

TARP consists of 109.4 miles of tunnels completed in 1996 and 3 reservoirs: the Majewski Reservoir (343 Mil. Gal.) near O'Hare, the recently completed Thornton Reservoir (7.9 Bil. Gal.) and the McCook Reservoir (10 Bil Gal. under construction) to provide storage for combined sewer overflows.

Flood Control Reservoirs

Stormwater storage areas constructed by the MWRD and/or in partnership with other agencies. The reservoirs are used to temporarily impound floodwaters during storm events to reduce the impacts of flooding.

Green Infrastructure

Projects designed to use natural landscaping to manage water and provide environmental and community benefits; prevents stormwater from entering the sewer system. All projects are constructed with partners.

Stormwater Management Phase 1 Projects

Heritage Park Flood Control Facility

Description: Compensatory Floodplain Storage for U.S. Army Corps of Engineers' Levee 37 which protects areas in Prospect Heights and Mt. Prospect

Partner Community/Benefitting Area: Wheeling

Status: Completed

Construction Cost: \$29,475,000

Summary: The Heritage Park Flood Control Facility, a partnership between the MWRD, village of Wheeling and Wheeling Park District, will provide compensatory floodplain storage for the U.S. Army Corps' Levee 37 Project on the Des Plaines River that protects more than 600 homes and businesses in Mount Prospect and Prospect Heights. It also provides Wheeling with increased stormwater detention at Heritage Park. The end product is six stormwater storage areas with a total capacity of more than 49 million gallons, as well as recreational improvements to Heritage Park, including new walkways, a pavilion, a band shell, soccer fields and a baseball complex.

Elmwood Park Floodwall and Pump Station (GCTR-1)

Description: Floodwall, reservoir, pump station

Partner Community/Benefitting Area: Elmwood Park

Status: Completed

Construction Cost: \$9,508,000

Summary: The Elmwood Park Floodwall and Pump Station project was a partnership with the Village of Elmwood Park that included an equalization basin, a pump station, a force main, and a floodwall. The equalization basin will take runoff from portions of northwest and southwest Elmwood Park and temporarily store it before a new pump station directs it to the Des Plaines River. The equalization basin and floodwall, averaging 3.5 feet in height, will help address flooding by preventing the Des Plaines River floodwaters from entering Elmwood Park.

Streambank Stabilization Project for I&M Canal Tributary D (IMTD-SE-1)

Description: Streambank Stabilization

Partner Community/Benefitting Area: Willow Springs

Status: Completed

Construction Cost: \$1,124,000

Summary: The Streambank Stabilization Project for the Illinois and Michigan Canal Tributary D in Willow Springs will stabilize approximately 1,000 linear feet of the I&M Canal Tributary D, north of Archer Avenue and west of Poston Road. The project will address public safety risks by protecting infrastructure and structures from possible failure due to active streambank erosion and protect more than 20 homes and businesses. A hybrid design of concrete armour units and native plantings will stabilize the eroded channel.

Streambank Stabilization Project for Higgins Creek (HGCR-1, HGCR-2)

Description: Streambank Stabilization

Partner Community/Benefitting Area: Des Plaines, Elk Grove Township

Status: Construction

Construction Cost: \$2,445,787

Summary: The Streambank Stabilization Project for Higgins Creek and McDonald Creek will address critical erosion threatening buildings, roads and utilities in Des Plaines, Mount Prospect and part of unincorporated Cook County in Elk Grove Township. The scope of the project involves the construction of three streambank stabilization projects, which will be located in the Lower Des Plaines River Watershed. Work will be performed on Higgins Creek in Des Plaines and Higgins Creek in incorporated Elk Grove Township and McDonald Creek in Mount Prospect.

Streambank Stabilization Project for McDonald Creek (MDCR-5)

Description: Streambank Stabilization within the River Trails Park District

Partner Community/Benefitting Area: Mt. Prospect

Flood Control Project for Upper Salt Creek (SCAH-50)

Description: Flood Control - flow bypass

Partner Community/Benefitting Area: Palatine

Status: Construction

Construction Cost: \$1,349,940

Summary: The Flood Control Project for Upper Salt Creek in Palatine will reduce flooding damage by bypassing flow from an inundated area south of Dundee Road to an outfall into Upper Salt Creek, which will be located south of Cherry Brook Village. The proposed project includes approximately 1,100 linear feet of storm sewer, an engineered berm and backflow preventers. This project will alleviate public health and safety concerns by reducing overbank flooding affecting 18 structures within Palatine.

Flood Control/Streambank Stabilization Project on Tinley Creek in Crestwood, IL (TICR-3, TICR-SE1)

Description: Flood Control (Flood Shelf) & Streambank Stabilization

Partner Community/Benefitting Area: Crestwood

Status: Construction

Construction Cost: \$7,222,220

Summary: The Flood Control/Streambank Stabilization Project on Tinley Creek in Crestwood will increase the conveyance capacity of Tinley Creek, downstream of Central Avenue, and will stabilize approximately 1,000 linear feet of Tinley Creek, downstream of the conveyance improvements. This project will provide protection from the 100-year flood event for approximately 173 structures, and it will protect an existing bike path, a commercial building, two pedestrian bridges and potable water infrastructure from failure due to erosion of the streambank.

Albany Park Diversion Tunnel (MS-07) (FC)

Description: Flood Control - flow bypass using deep diversion tunnel built in rock

Partner Community/Benefitting Area: Chicago

Status: Advertised

Estimated Construction Cost: \$62,585,320

Summary: The Albany Park Diversion Tunnel Project along the North Branch of the Chicago River will alleviate overland flooding in the Albany Park neighborhood on the Northwest Side of Chicago. The Chicago Department of Transportation proposes to construct a large-diameter tunnel that would divert a portion of flood flows in the North Branch of the Chicago River from an inlet structure near Foster Avenue and Springfield Avenue to an outlet on the North Shore Channel near Foster Avenue and Virginia Avenue. The proposed project includes an inlet shaft with inlet facilities, approximately 5,800 feet of 18-foot diameter rock tunnel and outlet shaft with outlet facilities. The stormwater diversion tunnel will address public safety concerns and reduce overbank flooding affecting 336 structures in Albany Park.

Streambank Stabilization Project on Tinley Creek (TICR-5)

Description: Streambank Stabilization

Partner Community/Benefitting Area: Orland Hills

Status: Advertised

Estimated Construction Cost: \$664,000

Summary: The Streambank Stabilization Project on Tinley Creek in Orland Hills will protect against erosion along a segment of Tinley Creek and reduce the risk of overtopping of the Lake Lorin outlet structure. The project will provide naturalized channel stabilization and flood control on Tinley Creek, from Lake Lorin to 88th Avenue.

Streambank Stabilization Project for the West Fork of the North Branch of the Chicago River (WF-03)

Description: Streambank Stabilization

Partner Community/Benefitting Area: Northbrook

Status: Advertised

Estimated Construction Cost: \$572,158

Summary: The Streambank Stabilization Project for the West Fork of the North Branch of the Chicago River in Northbrook will address public safety and protect two residential property structures and utilities in imminent danger of failure due to active streambank erosion. The project will stabilize the eastern streambank along the West Fork of the North Branch of the Chicago River through construction of a 155-foot gravity retaining wall.

Streambank Stabilization Project for Addison Creek (ADCR-7A)

Description: Streambank Stabilization

Partner Community/Benefitting Area: Northlake

Status: Final Design

Estimated Construction Cost: \$994,090

Summary: The Streambank Stabilization Project for Addison Creek in Northlake will address critical erosion threatening Fullerton Avenue and access to a residential neighborhood. The project will stabilize approximately 1,950 linear feet of streambank adjacent to Fullerton. Stabilization methods include regrading the creek banks, installing erosion control blankets and native plantings, and placing riprap.

Streambank Stabilization Project for Addison Creek (ADCR-9)

Description: Streambank Stabilization

Partner Community/Benefitting Area: Riverside

Status: Final Design

Summary: The Streambank Stabilization Project for Addison Creek in North Riverside involves stabilization of approximately 410 linear feet of streambank adjacent to 19th Avenue in North Riverside. Stabilization methods include the installation of a vegetated geogrid, turf reinforcing mat and the placement of riprap. This project will address critical erosion threatening the only point of access to homes along 19th Avenue.

Streambank Stabilization Project on Oak Lawn Creek (OLCR-3)

Description: Streambank Stabilization

Partner Community/Benefitting Area: Oak Lawn

Status: Final Design

Estimated Construction Cost: \$4,050,000

Summary: The Streambank Stabilization Project on Oak Law Creek will help stabilize approximately 1,200 linear feet of Oak Lawn Creek that has been deteriorated due to hydraulic erosion and slope failures, thus potentially compromising the slopes and impacting residential structures between Central and Massasoit avenues in Oak Lawn. Soldier piles and precast concrete panels will be used to stabilize the streambank and trees and other plantings will be installed upon completion of the wall.

Streambank Stabilization Project along Midlothian Creek (MTCR-G2)

Description: Streambank Stabilization

Partner Community/Benefitting Area: Tinley Park

Status: Final Design

Estimated Construction Cost: \$392,400

Summary: The Streambank Stabilization Project along Midlothian Creek in Tinley Park will protect structures and infrastructures in imminent danger of failure from active streambank erosion and flooding. The project will stabilize approximately 495 linear feet of Midlothian Creek from 66th Court, north of 173rd Street, extending east approximately 300 feet.

Flood Control Project on the East Branch Cherry Creek in Flossmoor, IL (CHEB-G3)

Description: Flood Control - high flow bypass channel with flood shelf

Partner Community/Benefitting Area: Flossmoor

Status: Final Design

Estimated Construction Cost: \$4,500,000

Summary: The Flood Control Project on the East Branch Cherry Creek in Flossmoor includes the construction of an overflow channel on Homewood-Flossmoor High School's property, west of Governors Highway. It will also replace two collapsed culverts and create shelf storage on Cherry Creek. The project is expected to provide flood relief for 16 residential structures.

Flood Control Project at Arrowhead Lake in the City of Palos Heights, IL (NVCR-3)

Description: Flood Control raising dam height at existing pond

Partner Community/Benefitting Area: Palos Heights

Status: Final Design

Estimated Construction Cost: \$1,200,000

Summary: The Flood Control Project at Arrowhead Lake in unincorporated Cook County near Palos Heights will raise an existing bike trail on the north side of the lake to increase stormwater storage in the lake. The project will provide flood relief for 70 structures downstream of Lake Arrowhead.

Streambank Stabilization Project on Melvina Ditch (MEDT-1)

Description: Streambank Stabilization

Partner Community/Benefitting Area: Chicago Ridge and Oak Lawn

Status: Final Design

Estimated Construction Cost: \$10,600,000

Summary: The Streambank Stabilization Project on Melvina Ditch is located between 95th and 99th streets in Oak Lawn and Chicago Ridge. Approximately 150 linear feet of the ditch at the north end of the project site will be stabilized with twin box culverts. The remaining 2,500 linear feet of the ditch will be stabilized with a precast concrete modular block retaining wall system. The banks have deteriorated due to hydraulic erosion and slope failures, potentially compromising roadways and structures that are in the vicinity.

Streambank Stabilization Project along Calumet Union Drainage Ditch (CUDD-G3)

Description: Streambank Stabilization

Partner Community/Benefitting Area: Markham

Status: Final Design

Estimated Construction Cost: \$1,568,329

Summary: The Streambank Stabilization Project along Calumet Union Drainage Ditch (CUDD) in Markham will protect structures and infrastructure in imminent danger of failure from active streambank erosion and flooding. The project will stabilize approximately 3,559 linear feet of the CUDD, between Sunset and Central Park avenues.

Streambank Stabilization Project on Tinley Creek (TICR-7, TICR-8)

Description: Streambank Stabilization

Partner Community/Benefitting Area: Orland Park

Status: Final Design

Estimated Construction Cost: \$3,806,000

Summary: The Streambank Stabilization Project on Tinley Creek in Orland Park will stabilize Tinley Creek at two locations in the village, including approximately 2,200 linear feet between 86th Avenue and Crystal Creek Drive and 2,800 linear feet between 151st Street and Oriole Court. The project will protect structures and infrastructure in imminent danger of failure due to active streambank erosion.

Flood Control Project for Deer Creek (DRCR-G1)

Description: Flood Control with levee and additional flooding of farmland

Partner Community/Benefitting Area: Ford Heights

Status: Final Design

Estimated Construction Cost: \$3,439,529

Summary: The Flood Control Project for Deer Creek will alleviate public health and safety concerns by reducing overbank flooding, which affects approximately 270 structures within Ford Heights. The project will reduce flood damages by improving channel conveyance and raising a berm for approximately 3,000 feet, between U.S. Route 30 and Hammond Lane, within the Ford Heights. This project includes the construction of a vegetated berm, stabilization of bank slopes, placement of pools and rock riffles and planting of diverse native landscaping.

Centerpoint Preserve Riparian Area Restoration (ADCR-7B)

Description: Streambank Stabilization & Habitat Restoration

Partner Community/Benefitting Area: Northlake

Status: Final Design

Estimated Construction Cost: \$3,000,000

Summary: The Centerpoint Preserve Riparian Area Restoration Project will stabilize Addison Creek between Wolf Road and Palmer Avenue in Northlake. This project will alleviate public safety risks by protecting infrastructure from the danger of failure due to active streambank erosion. Work will also include habitat restoration.

Flood Control Project on Farmers and Prairie Creeks (FRCR-12)

Description: Flood Control and Streambank Stabilization Improvements

Partner Community/Benefitting Area: Des Plaines, Nilens, Park Ridge, and Maine Township

Status: Final Design

Estimated Construction Cost: \$14,100,000

Summary: The Flood Control Project on Farmers and Prairie Creeks will alleviate public health and safety concerns in Des Plaines, Park Ridge and Maine Township by reducing overbank flooding to approximately 128 structures and protecting numerous buildings through streambank stabilization. This project includes flood storage and conveyance improvements along the two creeks, channel modifications, detention expansion, diversion sewer construction and streambank stabilization.

Buffalo Creek Reservoir Expansion (BUCR-3)

Description: Flood control with expansion of an existing flood control reservoir

Partner Community/Benefitting Area: 1. LCFPD

Partner Community/Benefitting Area: 2. Buffalo Grove

Status: Final Design

Estimated Construction Cost: \$17,872,434

Summary: The Buffalo Creek Reservoir Expansion Project in Buffalo Grove and the Lake County Forest Preserve District will increase the impoundment capacity of the existing flood control reservoir by approximately 180 acre-feet. Pedestrian bridges and boardwalks will be replaced and existing trails will be relocated to remove them from the 10-year storm event. Approximately 104 structures will receive flood protection from the expansion.

Flood Control Project on the Des Plaines River in Lyons (DPR-14D)

Description: Flood Control with reconstruction of an existing levee

Partner Community/Benefitting Area: 1. FPDCC

Partner Community/Benefitting Area: 2. Forest View

Status: Preliminary Design

Estimated Construction Cost: \$6,500,000

Summary: The Flood Control Project on the Des Plaines River in Lyons provides the restoration and improvement of the Lyons Levee to a condition that will elevate it to modern design standards, provide flood protection, and prevent overtopping by events up to a 100-year flood elevation. Overtopping has resulted in major flooding in recent years, impacting the village of Forest View that is located east of the levee. Overtopping could also jeopardize the ComEd substation that is located east of Forest View and create the potential for power disruptions or failures at Midway Airport and Stickney Water Reclamation Plant. The 4,000-foot long Lyons Levee, located on the east bank of the Des Plaines River, begins at Joliet Road at the upstream end and extends approximately 700 feet downstream of 47th Street.

Glenwood Levee (THCR-G1)

Description: Flood Control with construction of a levee

Partner Community/Benefitting Area: Glenwood

Status: Preliminary Design

Estimated Construction Cost: \$5,770,000

Summary: The Glenwood Levee Project calls for the construction of a levee along Thorn Creek at Arquilla Park in Glenwood that will protect approximately 31 residential structures from overbank flooding along the creek.

Flood Control Project for the West Fork of the North Branch of the Chicago River (WF-06)

Description: Flood Control with flood wall and reservoir expansion

Partner Community/Benefitting Area: Glenview

Status: Preliminary Design

Estimated Construction Cost: \$15,325,000

Summary: The Flood Control Project for the West Fork of the North Branch of the Chicago River in Glenview calls for the construction of flood storage, a floodwall, pump station and a new storm sewer. As part of the project, the MWRD plans to expand the Techny Reservoir 32A with an additional 80 acre-feet of floodwater storage.

Addison Creek Reservoir (ADCR-6)

Description: Flood Control with new reservoir
Partner Community/Benefitting Area: Bellwood
Status: Preliminary Design
Estimated Construction Cost: \$109,542,000

Summary: The Addison Creek Reservoir Project in Bellwood is proposing flood control with the construction of a 600 acre-foot reservoir just north of Washington Boulevard and east of Addison Creek . The Addison Creek Reservoir along with the Addison Creek Channel Improvements will protect approximately 1,707 structures from overbank flooding along Addison Creek.

Addison Creek Channel Improvements (ADCR-6B)

Description: Flood Control with channel improvements
Partner Community/Benefitting Area: Northlake, Stone Park, Melrose Park, Bellwood, Broadview, Westchester
Status: Preliminary Design
Estimated Construction Cost: \$48,133,000

Summary: The Addison Creek Channel Improvements Project proposes channel conveyance improvements that will benefit Northlake, Stone Park, Melrose Park, Bellwood, Broadview and Westchester in the Lower Des Plaines River Watershed. The Channel Improvements along with the Addison Creek Reservoir will protect approximately 1,707 structures from overbank flooding along Addison Creek. Channel improvements include open channel, gabion baskets, sheet piles, concrete, riprap, clearing, and removal of three bridges.

Stormwater Management Phase 2 Projects

Glenview 1

Description: New storm sewers and lift stations in area East of Harms Road
Partner Community/Benefitting Area: Glenview
Status: Construction
Construction Cost: \$10,600,000

Summary: The East of Harms Storm Relief Project benefits 1,150 single-family homes east of Harms Road in Glenview that have been stricken by repeated flooding due to the low-lying location in relation to the main stem (middle fork) of the North Branch of the Chicago River, just west of the Cook County Forest Preserve. To prevent the North Branch from backing into neighborhood storm sewers, the project included the installation of three backflow preventers on storm sewer pipes, which lead to the river; two pumping stations with backup generators and new storm sewer piping. One pump station was provided at the Glenview Road and Harms Road area to support the local sewer system, and the other pump station was installed at Cunliff Park. Additionally, new 84-inch storm sewers were constructed under Harms Road to provide for storm water conveyance and detention. The pump station construction also allowed the Glenview Park District to undertake improvements at Cunliff Park, including fieldhouse renovation, new bathrooms and a new playground.

Glenwood 3 and 6

Description: Flood Control Relief Sewer
Partner Community/Benefitting Area: Glenwood
Status: Final Design
Estimated Construction Cost: \$820,000

Summary: The Glenwood Flood Control Relief Sewer Project calls for the construction of a relief sewer in the original part of Glenwood to provide drainage outlet to Thorn Creek, raise the 187th Street roadway and
Summary: construct a berm. The project will alleviate residential and roadway flooding in the area of 187th Street and Main Street at Thorn Creek.

Westchester 1

Description: Mayfair Reservoir expansion and new storm sewer

Partner Community/Benefitting Area: Westchester

Status: Construction

Construction Cost: \$2,587,000

Summary: The Mayfair Reservoir Expansion Project in Westchester will provide direct flood reduction benefits to an estimated 60 residential structures and will reduce storm-related impacts for approximately 120 homeowners. Initially placed into service in 1977, the Mayfair Reservoir was designed to accommodate a 100-year storm, but due to the unexpected frequency of these devastating storms, the MWRD chose to designate its property for the expansion and provide additional sewer improvements. Working with the village of Westchester, MWRD is minimizing the impact of future storms and improving the quality of life for homeowners.

Des Plaines 12

Description: New storm relief sewer

Partner Community/Benefitting Area: Des Plaines

Status: Construction

Construction Cost: \$2,000,000

Summary: The Des Plaines Storm Sewer Relief Project along Fargo Avenue, Jarvis Avenue and Des Plaines River Road consists of new 36-inch to 60-inch storm sewers to be connected to an existing outfall on the Des Plaines River. The project will provide direct flood reduction benefits to an estimated 56 residential structures in the project area.

Winnetka 4

Description: New storm sewers and berms

Partner Community/Benefitting Area: Winnetka

Status: Construction

Construction Cost: \$4,643,000

Summary: The Winnetka Storm Sewers and Berms Project consists of capacity improvements to storm sewers contributing to an existing detention pond with excess capacity for 100-year protection. The project will include collecting runoff from low areas that are subject to frequent flooding. The project will provide direct flood reduction benefits to an estimated 27 residential structures in the project area.

Hoffman Estates 1

Description: New storm sewer

Partner Community/Benefitting Area: Hoffman Estates

Status: Construction

Construction Cost: \$1,241,400

Summary: The Jones Road/Highland Boulevard Storm Sewer Improvements Project in Hoffman Estates includes a new 48-inch storm sewer, asphalt pavement patching and resurfacing, new curb and gutter, sidewalk and driveway removal and replacement, utility structure adjustments, water main adjustment, restoration and related improvements. The project length is 1,830 feet (0.37 miles) commencing at the intersection of Jones Road and Highland Boulevard and ending at the intersection of Heather Lane and Hillcrest Boulevard. The new storm sewers will provide direct flood reduction benefits to an estimated seven residential structures and will reduce storm related access impacts for approximately 50 homeowners in the project area.

Lansing 1

Description: Pump station & basin modifications and improvements to Stony Island Ave. ditch

Partner Community/Benefitting Area: Lansing

Status: Construction

Construction Cost: \$1,364,225

Summary: The Stony Island Ditch and Lansing Manor Detention Basin and Pumping Station Modifications Project in Lansing calls for excavating and regrading the existing ditch in Stony Island Avenue, upgrades to the existing pumping station, modification of a detention pond and the rerouting of storm sewer outfall piping from the regraded ditch to a new location. The project will address local flooding caused by the Stony Island ditch exceeding its banks in the vicinity of 181st Street and Stony Island Avenue, where flooding has impacted area roadways and the Lansing Manor Subdivision. The village of Lansing's design includes modifications to the Stony Island Avenue Ditch and Lansing Manor Detention Basin and Pumping Station in order to mitigate the flooding problem.

Northbrook 2 and 5

Description: Storm sewer improvements and new relief sewer

Partner Community/Benefitting Area: Northbrook

Status: Construction

Construction Cost: \$2,100,000

Summary: The Northbrook Storm Sewer Improvements will create an overflow sewer, a new relief sewer, additional inlets along Shermer Road and Cherry Lane and new outlets to the West Fork of the North Branch of the Chicago River, reducing flooding impacts in problem drainage areas. The Shermer Road overflow sewer proposes construction of approximately 1,800 linear feet of 72-inch storm relief sewer that will extend from the intersection of Shermer Road and Woodlawn Road and outfall to the West Fork. The project directly benefits 22 properties and 17 structures up to the 50-year frequency storm event and indirectly benefit other properties and structures, as it is interconnected. The Cherry Lane Underpass proposes construction of approximately 700 linear feet of 36-inch and 100 linear feet of 24-inch storm relief sewer that will also outfall to the West Fork. This project will reduce flooding impacts at the Cherry Lane Underpass and for 10 properties and one structure up to the 10-year frequency storm event.

CCDTH 2

Description: New trunk storm sewer on Roberts Road

Partner Community/Benefitting Area: Justice and Bridgeview

Status: Construction

Construction Cost: \$2,385,294

Summary: The Roberts Road Trunk Sewer and Drainage Improvements Project is taking place from 79th to 86th streets in the villages of Justice and Bridgeview. The Cook County Department of Transportation and Highways will install a new storm sewer in Roberts Road. This project will provide direct flood reduction benefits to an estimated 30 commercial and residential structures and will reduce storm related access impacts along the roadway.

Franklin Park 5

Description: Channel improvements on Silver Creek

Partner Community/Benefitting Area: Franklin Park

Status: Construction

Construction Cost: \$4,700,000

Summary: The Silver Creek Channel Improvements Project will alleviate flooding of approximately 76 structures in Franklin Park, where numerous structures along the creek have flooded during past extreme storms. Channel improvements on Silver Creek will occur from Riverside Drive to Scott Street and includes the daylighting of several hundred feet of encapsulated stream channel, four new culverts, water main relocation, sanitary sewer relocation and storm sewer relocation. The village is responsible for the design, construction, operations and maintenance.

Willow Springs 1

Description: New storm sewer and ditch and outfall improvements

Partner Community/Benefitting Area: Willow Springs

Status: Completed

Construction Cost: \$138,754

Summary: The Willow Springs Stormwater Improvements Project provides a new storm sewer and ditch and outfall improvements to alleviate flooding in the Ravine Avenue Watershed. These improvements will provide direct flood reduction benefits to 20 residential structures in the project area.

Niles 1

Description: Cleveland Avenue relief sewer

Partner Community/Benefitting Area: Niles

Status: Final Design

Estimated Construction Cost: \$7,623,000

Summary: The Cleveland Street Relief Sewer Construction Project in Niles will provide capacity to convey surface water away from these areas into the North Branch of the Chicago River in order to minimize surface water flood damages and reduce the amount of surface water discharging to the existing combined sewer system in this area. The project consists of approximately 11,200 feet of new storm sewer to provide relief from surface water flooding for the area generally bounded by Main Street to the north, Harlem Avenue to the east, Monroe Street to the south, and Oketo Avenue to the west. The village of Niles is responsible for the design, construction, operation and maintenance.

Brookfield 1

Description: New pump station and conveyance improvements

Partner Community/Benefitting Area: Brookfield

Status: Final Design

Estimated Construction Cost: \$1,900,000

Summary: The Prairie/Washington Pumping Station Project in Brookfield intends to install a new pumping station and back-up generator near the Washington Avenue/Forest Avenue intersection, a box culvert under Forest Avenue, a new detention pond west of Forest Avenue and other miscellaneous storm sewer improvements for the public benefit of reducing flooding in the general area. The project will address roadway and residential flooding that occurs when storm sewers back up due to Salt Creek water levels. The village is responsible for the design, construction, operation and maintenance.

Elk Grove Village 1

Description: Modifications to Busse Woods Dam

Partner Community/Benefitting Area: Elk Grove Village

Status: Construction

Construction Cost: \$1,900,000

Summary: Construction on the Busse Woods Reservoir South Dam Modification Project in Elk Grove Village, brings Cook and DuPage counties together with the MWRD to bring flood relief to over 1-million people living and working along the Salt Creek watershed. The planned modification consists of replacing a fixed concrete barrier with a pair of hinged gates. The gates will be used to regulate water levels in the reservoir before and during storm events that affect Salt Creek levels, minimizing the impacts of flooding on nearby roadways and properties. Flooding from Salt Creek has cost the region millions of dollars in property damage, and disruptions from flooding has caused closures of critical intersections leaving people unable to access their homes, schools and places of work.

IDOT 11

Description: New detention and storm sewers at IL53 and IL62 Interchange

Partner Community/Benefitting Area: IDOT/Rolling Meadows

Status: Final Design

Estimated Construction Cost: \$300,000

Summary: The MWRD-IDOT 11 Project will provide new detention and storm sewers at Illinois Route 53 and Illinois Route 62 interchange to reduce traffic impacts related to flooding at this location.

Lemont 1

Description: Culvert improvements

Partner Community/Benefitting Area: Lemont

Status: Final Design

Estimated Construction Cost: \$473,000

Summary: The Illinois and Michigan Canal Culvert Project in Lemont proposes to replace existing twin culverts between the canal and the Chicago Sanitary and Ship Canal for the public benefit of reducing flooding in the general area. The construction and culvert improvements will address flooding during heavy rains in industrial areas due to the existing culverts being undersized. The village of Lemont is responsible for the design, construction, operation and maintenance.

Melvina Ditch Reservoir Expansion

Description: Reservoir and pump station improvements

Partner Community/Benefitting Area: Burbank and Oak Lawn

Status: Final Design

Estimated Construction Cost: \$21,766,000

Summary: The Melvina Ditch Reservoir Expansion in Burbank consists of expanding the existing reservoir by up to 195 acre-feet to increase its storage capacity, modifying the pump station to accommodate the reservoir expansion and installing a new emergency overflow weir to reduce the likelihood of reservoir overtopping. Reservoir expansion will include work within the existing reservoir footprint on MWRD property and may also include additional private properties around the perimeter of the reservoir. Local stakeholders have been engaged on possible configurations for the proposed reservoir expansion, which will benefit Burbank and Oak Lawn. The reservoir has exceeded its capacity in recent storm events, resulting in flooding in both communities. The project also consists of the installation of an

emergency overflow/high water bypass structure and three flap gates and the replacement of the existing elliptical culverts at the outlet of the Melvina Ditch Reservoir Pumping Station with dual box culverts and a stormwater chamber.

Crestwood 2

Description: Stormwater storage improvements
Partner Community/Benefitting Area: Crestwood
Status: Final Design
Estimated Construction Cost: \$170,745

Summary: The Crestwood Stormwater Storage Improvements Project addresses the flooding concerns at the intersection of LaVergne Avenue and Midlothian Turnpike. Flooding from the Calumet-Sag Channel Tributary C impacts residents and Midlothian Turnpike which is a major collector road. The Village is responsible for the design, construction, operations and maintenance of the planned improvements being coordinated with MWRD and the Village of Midlothian, which is adjacent to the project area.

Riverside 13 and 14

Description: Railroad watershed outlet, and Groveland Avenue Levee project
Partner Community/Benefitting Area: Riverside
Status: Final Design
Estimated Construction Cost: \$5,989,000

Summary: The Riverside Railroad Watershed Outlet Project would restrict or disconnect (if possible) flow into the combined sewer by creating a new outfall to the Des Plaines River, thus reducing flow in the downstream system, which will lower the hydraulic gradeline (HGL) and reduce the likelihood and frequency of basement backups in the downstream system. The Groveland Avenue Levee Project would address the flooding risk for 50 structures, many of which are multi-family, located east of the existing Groveland Avenue Levee. A preliminary plan as provided by the U.S. Army Corps of Engineers would involve raising the levee crest elevation.

Berkeley 4

Description: New storm sewers and expansion of existing stormwater basin
Partner Community/Benefitting Area: Berkeley
Status: Final Design
Estimated Construction Cost: \$5,065,674

Summary: The Berkeley Storm Sewers and Basin Project addresses flooding in the area of the Village north of St. Charles Road, and involves new storm sewers and expansion of an existing stormwater basin. The village is responsible for design, construction, maintenance, and operations of the planned improvements.

Glencoe 4 & 6

Description: Terrace Court and Skokie Ridge stormwater projects
Partner Community/Benefitting Area: Glencoe
Status: Final Design
Estimated Construction Cost: \$2,891,000

Summary: The Glencoe Stormwater Projects includes upgrades at Terrace Court and Skokie Ridge drainage basins that will increase the capacity of its storm sewers at critical locations to reduce the frequency of flooding for homes and roadways during moderate and heavy rainfall. The recommended storm sewer upgrade at Terrace Court includes 2,200 feet of new storm sewer pipe to address insufficient storm sewer capacity and inadequate overland flow routes and will significantly reduce private property structural flooding and blocked street access that currently directly impacts 30 homes. The recommended storm sewer upgrades at Skokie Ridge include 3,500 feet of new storm sewer pipe to address insufficient storm sewer capacity and the challenges presented by the neighborhood's steep topography.

LaGrange 7

Description: Storm sewer improvements south of 47th Street

Partner Community/Benefitting Area: LaGrange

Status: Final Design

Estimated Construction Cost: \$23,920,000

Summary: The La Grange Storm Sewer Improvements Project will address flooding concerns in the area south of 47th Street in addition to the Brainard Avenue Floodwall and the 50th Street Storm Sewer Improvements. The MWRD is working with the village of La Grange to identify regional solutions that will support current village initiatives that further reduce flooding and support regional storm water management systems in the area for the long term.

Oak Lawn 2 and 4

Description: Stormwater storage and conveyance in 103rd Street

Partner Community/Benefitting Area: Oak Lawn

Status: Preliminary Design

Estimated Construction Cost: TBD

Summary: The Oak Lawn Stormwater Storage and Conveyance Project on 103rd Street calls for in-line detention and increasing the capacity of storm sewers within the public right-of-way.

Flood Control Project in the Washington St. Area of Blue Island, IL (Blue Island 1)

Description: Stormwater storage and conveyance improvements

Partner Community/Benefitting Area: Blue Island

Status: Preliminary Design

Estimated Construction Cost: TBD

Summary: The Blue Island Flood Control Project in the Washington Street area will address stormwater storage and conveyance improvements and include a detailed evaluation of potential solutions, analysis of right-of-way issues and state and federal government permit requirements, and the preparation of preliminary engineering plans for use in defining a detailed scope of work for the final design of these improvements should they prove feasible.

Flood Control Project on Natalie Creek in Midlothian, IL (Midlothian 1)

Description: Stormwater storage and conveyance improvements

Partner Community/Benefitting Area: Midlothian and Oak Forest

Status: Preliminary Design

Estimated Construction Cost: TBD

Summary: The Natalie Creek Flood Control Project is considering detention, conveyance improvements and potential property acquisition to alleviate flooding concerns in Midlothian and Oak Forest. The stormwater storage and conveyance improvements will upgrade an existing system that provides protection only from a two-year rainfall event, which can cause flooding near the banks of the creek and destruction and distress for those who live in the vicinity. The MWRD is developing alternatives to reduce the impact of overbanking on Natalie Creek from 153rd Street and Lavergne Avenue to 146th Street and Pulaski Road. Many residents affected by creek overbanking experience overland flooding on their property and in their basements and garages.

Flood Control Project on Midlothian Creek in Robbins, IL (Robbins 2)

Description: Stormwater storage and conveyance improvements

Partner Community/Benefitting Area: Robbins

Status: Preliminary Design

Estimated Construction Cost: TBD

Summary: The Midlothian Creek Flood Control Project in Robbins will provide stormwater storage and conveyance improvements to address flooding along Midlothian Creek in the vicinity of 138th Street and Kedzie Avenue. The scope of work includes a detailed review of assumptions made with respect to the improvements recommended in the Little Calumet Detailed Watershed Plan, evaluation of other potential solutions, analysis of right-of-way issues and state and federal government permit requirements, and the preparation of preliminary engineering plans for use in defining a detailed scope of work for the final design of these improvements should they prove feasible.

Flood Control Project on Willow Road at McDonald Creek Tributary A in Prospect Heights, IL (CCDTH 5)

Description: Road raising with storage and conveyance improvements

Partner Community/Benefitting Area: Prospect Heights

Status: Preliminary Design

Estimated Construction Cost: \$2,800,000

Summary: Partnering with Prospect Heights and the Cook County Department of Transportation and Highways on the Flood Control Project on Willow Road at McDonald Creek Tributary A in Prospect Heights, the MWRD plans to mitigate flooding issues in the areas of Willow Road, Hillcrest Drive and Owen Court by raising each of the streets, constructing new culverts under Willow Road and Owen Court to maintain conveyance capacity, include 6-foot wide shoulders and guardrail to allow for temporary surcharge loading to compact weak soils, raise driveways and restore the ditch on the land side, minimize tree loss and replace disturbed vegetation, fences and mailboxes, and add native vegetation near lake shore areas where disturbed.

Flood Control Project on Calumet-Sag Tributary C in Bremen Township and Midlothian, IL (Bremen Township 1)

Description: Conveyance and storage improvements

Partner Community/Benefitting Area: Bremen Twp. and Midlothian

Status: Preliminary Design

Estimated Construction Cost: TBD

Summary: The Flood Control Project on Calumet-Sag Tributary C in Bremen Township and Midlothian will provide conveyance and storage improvements to address roadway and residential flooding, as well as streambank erosion on Cal-Sag Tributary C in the area of 143rd Street and Lindner Avenue. The project includes culvert and roadway reconstruction at both 143rd Street and Linder Avenue and potential reshaping of various ditches.

Flood Control Project in the Worth Woods Subdivision in Worth, IL (Worth 2)

Description: Conveyance and storage improvements

Partner Community/Benefitting Area: Worth

Status: Preliminary Design

Estimated Construction Cost: TBD

Summary: The Worth Woods Flood Control Project will address conveyance and storage improvements in the Worth Woods Subdivision. The scope of work includes a detailed evaluation of potential solutions, analysis of right-of-way issues and state and federal government permit requirements and the preparation of preliminary engineering plans for use in defining a detailed scope of work for the final design of these improvements should they prove feasible. The MWRD is evaluating additional alternatives to make use of an outlet to the Cal-Sag Channel instead of Stony Creek, through the Lucas Berg Quarry site, following a decision by the U.S. Army Corps of Engineers to permanently remove this site from being considered as a potential dredging disposal facility.

Flood Control Project in the vicinity of 131st St. & Cypress Drive in Palos Heights, IL (Palos Heights 4)

Description: Conveyance improvements and possible storage

Partner Community/Benefitting Area: Palos Heights

Status: Preliminary Design

Estimated Construction Cost: TBD

Summary: The Palos Heights Flood Control Project will provide conveyance improvements and possible storage to address flooding in the vicinity of 131st St. and Cypress Drive in Palos Heights. The scope of work includes a detailed evaluation of potential solutions, analysis of right-of-way issues and state and federal government permit requirements and the preparation of preliminary engineering plans for use in defining a detailed scope of work for the final design of these improvements should they prove feasible.

Flood Control Project in the vicinity of 135th St & Central Ave. in Crestwood, IL (Crestwood 1)

Description: Stormwater conveyance and storage improvements

Partner Community/Benefitting Area: Crestwood

Status: Preliminary Design

Estimated Construction Cost: TBD

Summary: The Crestwood Flood Control Project will address stormwater conveyance and storage improvements in the vicinity of 135th Street and Central Avenue in Crestwood. The scope of work includes a detailed evaluation of potential solutions, analysis of right-of-way issues and state and federal government permit requirements, and the preparation of preliminary engineering plans for use in defining a detailed scope of work for the final design of these improvements should they prove feasible.

Flood Control Project at 61st Ave and 36th St in Cicero, IL (Cicero 1)

Description: Conveyance and possible storage improvements

Partner Community/Benefitting Area: Cicero

Status: Preliminary Design

Estimated Construction Cost: TBD

Summary: The Cicero Flood Control Project will address conveyance and possible storage improvements in the vicinity of 61st Avenue and 36th Street in Cicero. The scope of work includes a detailed evaluation of potential solutions, analysis of right-of-way issues and state and federal government permit requirements, and the preparation of preliminary engineering plans for use in defining a detailed scope of work for the final design of these improvements should they prove feasible.

Flood Control Project Central Road, from the Des Plaines River to Greenwood Road (IDOT 17)

Description: Conveyance and possible storage improvements

Partner Community/Benefitting Area: Glenview and Unincorp. Cook Co.

Status: Preliminary Design

Estimated Construction Cost: TBD

Summary: The Central Road/Greenwood Road Flood Control Project will provide conveyance and possible storage improvements for Glenview and unincorporated Cook County. The project will evaluate potential flood mitigation on Central Road and adjacent roadways, and properties from the Des Plaines River to Greenwood Road in Northfield, Maine Townships and Glenview. The scope of work includes a detailed evaluation of potential solutions, analysis of right-of-way issues and state and federal government permit requirements and the preparation of preliminary engineering plans for use in defining a detailed scope of work for the final design of these improvements should they prove feasible.

Flood Control Project on 1st Avenue from Roosevelt Road to Cermak Road (IDOT 15)

Description: Stormwater conveyance improvements

Partner Community/Benefitting Area: Maywood and Broadview

Status: Preliminary Design

Estimated Construction Cost: TBD

Summary: The 1st Avenue Flood Control Project will provide stormwater conveyance improvements along 1st Avenue between Roosevelt Road and Cermak Road. Measures to accommodate flood flows from adjacent properties, including at the Loyola University Medical Center in Maywood, will also be studied. The scope of work includes a detailed evaluation of potential solutions, analysis of right-of-way issues and state and federal government permit requirements and the preparation of preliminary engineering plans for use in defining a detailed scope of work for the final design of these improvements should they prove feasible.

Flood Control Project along Plainfield Road from Willow Springs Road to East Avenue (CCDTH 4)

Description: Conveyance and storage improvements

Partner Community/Benefitting Area: LaGrange, Countryside, McCook

Status: Preliminary Design

Estimated Construction Cost: TBD

Summary: The Flood Control Project along Plainfield Road will address conveyance and storage improvements in a study area bound by Willow Springs Road on the west, 47th Street on the north, Joliet Road to the south and Illinois Route 171 (First Avenue) on the east, including portions of La Grange, Countryside, McCook and unincorporated Cook County. MWRD is coordinating with the Cook County Department of Transportation and Highways, the Illinois Department of Transportation and local communities to identify problem areas and possible solutions.

Flood-Prone Property Acquisitions

Glenview Flood Prone Acquisition

Description: Acquisition of flood prone property along the West Fork of the North Branch of the Chicago River

Partner Community/Benefitting Area: Glenview

Status: Complete

Construction Cost: \$11,735,000

Summary: The Glenview Flood Prone Acquisition Project involves the acquisition of flood prone property along the West Fork of the North Branch of the Chicago River in Glenview. The MWRD is purchasing 17 flood prone homes along the West Fork to reduce the flood hazard risk in the community. This project allows homeowners from Glenview to voluntarily participate in the buyout of their flood-prone residences through contributions from the MWRD and the Federal Emergency Management Agency (FEMA).

Des Plaines Flood Prone Acquisition

Description: Acquisition of flood prone property along the Des Plaines River

Partner Community/Benefitting Area: Des Plaines

Status: Final Design

Estimated Construction Cost: \$4,000,000

Summary: The Des Plaines Flood Prone Acquisition Project involves the acquisition of flood prone property along the Des Plaines River in Des Plaines. The MWRD is purchasing 13 flood prone homes along the Des Plaines River that will reduce the flood hazard risk in the community. This project allows homeowners from Des Plaines to voluntarily participate in the buyout of their flood-prone residences through contributions from the MWRD and the Federal Emergency Management Agency (FEMA). The homes in the Big Bend neighborhood of Des Plaines, situated just west of the Des Plaines River, flooded several times since the 1980s, and floods in 2008 and 2013 caused first floor damage and completely destroyed basements and all contents.

Riverside Lawn Flood Prone Acquisition

Description: Acquisition of flood prone property along the Des Plaines River

Partner Community/Benefitting Area: Cook County Land Bank / Unincorp. Riverside Lawn

Status: Construction

Construction Cost: \$12,000,000

Summary: The Riverside Lawn Flood Prone Acquisition Project involves the acquisition of flood prone property along the Des Plaines River in unincorporated Cook County in Lyons Township. The Riverside Lawn community is a Federal Emergency Management Agency (FEMA)-designated flood hazard area consisting of approximately 45 homes that have experienced significant flooding in recent years. Riverside Lawn, part of unincorporated Cook County, resembles a peninsula, surrounded by the Des Plaines River to the west, north and east and 39th Street to the south. A rain event in 2013 was so devastating that residents had to be evacuated by boat. To combat this flooding, the MWRD, along with Cook County and Riverside Township, has examined several alternative solutions, including a voluntary home acquisition program. This project would allow homeowners from Riverside Lawn to voluntarily participate in the buyout of their flood-prone residences through contributions from the MWRD and FEMA.

Franklin Park Flood Prone Acquisition

Description: Acquisition of flood prone property along Silver Creek

Partner Community/Benefitting Area: Franklin Park

Status: In progress

Construction Cost: \$5,200,000

Summary: The Franklin Park Flood Prone Acquisition Project involves the acquisition of flood prone property along Silver Creek in Franklin Park. MWRD is providing funding assistance to the Village towards 32 flood prone homes along Silver Creek to reduce the flood hazard risk in the community. This project allows homeowners from Franklin Park to voluntarily participate in the buyout of their flood-prone residences through contributions from MWRD.

Des Plaines Flood Prone Acquisition

Description: Acquisition of flood prone property along the Des Plaines River

Partner Community/Benefitting Area: Des Plaines

Status: In progress

Construction Cost: \$15,730,281

Summary: The Des Plaines Flood Prone Acquisition Project involves the acquisition of flood prone property along the Des Plaines River in Des Plaines. MWRD is providing funding assistance to the City towards purchasing up to 49 flood prone homes along the Des Plaines River that will reduce the flood hazard risk in the community. This project allows homeowners from Des Plaines to voluntarily participate in the buyout of their flood-prone residences through contributions from the MWRD and FEMA. The homes in the Big Bend neighborhood of Des Plaines, situated just west of the Des Plaines River, flooded several times since the 1980s, and floods in 2008 and 2013 caused first floor damage and completely destroyed basements and all contents.

Northlake Flood Prone Acquisition

Description: Acquisition of flood prone property along Addison Creek

Partner Community/Benefitting Area: Northlake

Status: In progress

Construction Cost: \$1,329,471

Summary: The Northlake Flood Prone Acquisition Project involves the acquisition of flood prone property along Addison Creek in Northlake. MWRD is providing funding assistance to the Village towards 8 flood prone homes along Addison Creek to reduce the flood hazard risk in the community. This project allows homeowners from Northlake to voluntarily participate in the buyout of their flood-prone residences through contributions from MWRD.

Stone Park Flood Prone Acquisition

Description: Acquisition of flood prone property along Addison Creek

Partner Community/Benefitting Area: Stone Park

Status: In progress

Construction Cost: \$2,700,000

Summary: The Stone Park Flood Prone Acquisition Project involves the acquisition of flood prone property along Addison Creek in Stone Park. MWRD is providing funding assistance to the Village towards 35 flood prone homes along Addison Creek to reduce the flood hazard risk in the community. This project allows homeowners from Stone Park to voluntarily participate in the buyout of their flood-prone residences through contributions from MWRD.

Wheeling Township Flood Prone Acquisition

Description: Acquisition of flood prone property along Feehanville Ditch and the Des Plaines River

Partner Community/Benefitting Area: Wheeling Township

Status: In progress

Construction Cost: \$1,415,906

Summary: The Wheeling Township Flood Prone Acquisition Project involves the acquisition of flood prone property along Feehanville Ditch and the Des Plaines River in Wheeling Township. MWRD is providing funding assistance to the Village towards up to 6 flood prone homes along Feehanville Ditch and the Des Plaines River to reduce the flood hazard risk in the community. This project allows homeowners from Wheeling Township to voluntarily participate in the buyout of their flood-prone residences through contributions from MWRD, the Township, and FEMA.

Flossmoor Flood Prone Acquisition

Description: Acquisition of flood prone property along Butterfield Creek

Partner Community/Benefitting Area: Flossmoor

Status: In progress

Construction Cost: \$688,538

Summary: The Flossmoor Flood Prone Acquisition Project involves the acquisition of flood prone property along Butterfield Creek in the Village of Flossmoor. MWRD is providing funding assistance to the Village towards 2 flood prone homes along Butterfield Creek to reduce the flood hazard risk in the community. This project allows homeowners from Butterfield Creek to voluntarily participate in the buyout of their flood-prone residences through contributions from MWRD and the Village.

Green Infrastructure

Blue Island GI

Description: Install 6 rain gardens and 2 permeable parking lots in flood prone area

Partner Community/Benefitting Area: Blue Island

Status: Complete

Construction Cost: \$697,030

Summary: As part of the Blue Island Green Infrastructure Project, the MWRD installed six rain gardens, two permeable parking lots and bioswales in flood prone areas bound by Western Avenue, 119th Street, Vincennes Avenue and 121st Street. The project will capture approximately 100,000 gallons of stormwater per rain event and assist in mitigating flooding damages.

Leland Elementary School GI

Morrill Math and Science Academy GI

Schmid Elementary School GI

Grissom Elementary School GI

Description: CPS Green Infrastructure 2014: Install green infrastructure technologies at 4 playgrounds to reduce flooding and reduce flows to combined sewer system

Partner Community/Benefitting Area: Chicago

Status: Complete

Construction Cost: \$6,120,299

Summary: In 2014, the MWRD participated in the Space to Grow program to install green infrastructure technologies at playgrounds at four Chicago Public Schools, including Leland Elementary School in the Austin neighborhood on the Far West Side, Morrill Math and Science Academy in the Chicago Lawn neighborhood on the Southwest Side, Schmid Elementary School in the Pullman neighborhood on the Far South Side, and Grissom Elementary School in the Hegewisch neighborhood on the Far Southeast Side. The new infrastructure will reduce flooding and reduce flows to the combined sewer system. The project will capture approximately 731,000 gallons of stormwater per rain event.

Orozco Community Academy GI

Willa Cather Elementary GI

Description: CPS Green Infrastructure 2015: Install green infrastructure technologies at 2 playgrounds to reduce flooding and reduce flows to combined sewer system

Partner Community/Benefitting Area: Chicago

Status: Complete

Construction Cost: \$3,000,000

Summary: In 2015, the MWRD participated in the Space to Grow program to install green infrastructure technologies at playgrounds at two Chicago Public Schools, including Orozco Community Academy in the Heart of Chicago neighborhood on the Southwest Side, and Willa Cather Elementary School in the East Garfield Park on the West Side. The new infrastructure will reduce flooding and reduce flows to the combined sewer system.

Westcott Elementary School GI Gunsaulus Scholastic Academy GI Corkery Elementary School GI Wadsworth Elementary School GI

Description: CPS Green Infrastructure 2016: Install green infrastructure technologies at nine more playgrounds to reduce flooding and reduce flows to combined sewer system

Partner Community/Benefitting Area: Chicago

Status: Preliminary Design

Estimated Construction Cost: \$13,500,000

Summary: The MWRD has committed to continue to participate in the Space to Grow program transforming several more schools between 2015 and 2019 using green infrastructure technologies. Two schools were completed in 2015. In 2016 the MWRD has committed to participating in transforming nine more playgrounds at Chicago Public Schools, including Wadsworth Elementary School in the Woodlawn neighborhood on the South Side, Westcott Elementary School in the Gresham neighborhood on the South Side, Gunsaulus Scholastic Academy in the Brighton Park neighborhood on the Southwest Side, Corkery Elementary School in the Little Village neighborhood on the Southwest Side, The new infrastructure will reduce flooding and reduce flows to the combined sewer system.

A joint venture operated through the financial support of the MWRD, Space to Grow is managed by the Healthy Schools Campaign and Openlands organizations. Space to Grow transforms Chicago school yards into community spaces for physical activity, outdoor learning, environmental literacy and engagement with art, while addressing neighborhood flooding issues. In addition to providing community members in low-income neighborhoods with safe outdoor spaces to play and stay active, Space to Grow schoolyards help Chicago Public Schools meet daily recess and physical education requirements for elementary schools. The MWRD, the Chicago Department of Water Management, and the Chicago Public Schools are partnering to design and install the new playgrounds utilizing green infrastructure. The projects will reduce flooding, reduce the load on the combined sewer system, and educate students and neighbors about green infrastructure techniques and purpose.

Evanston Civic Center Parking Lot GI

Description: Install permeable pavement to reduce overland flooding at civic center building

Partner Community/Benefitting Area: Evanston

Status: Complete

Construction Cost: \$1,519,000

Summary: The MWRD is partnering with the city of Evanston to rehabilitate the Morton Civic Center parking lot. Evanston's first city-owned sustainable public parking lot will use various permeable pavements, rain gardens and native plantings to substantially reduce stormwater runoff. The MWRD is funding nearly half of the project cost. The civic center parking lot will feature three different porous pavement materials that will be evaluated to determine for stormwater infiltration and durability, and the impact of snow and ice removal. The permeable pavement will improve water quality, ground water recharge and delayed stormwater discharge.

Wescott Park Stormwater Reuse GI

Description: Install control system to regulate stormwater stored by village built storage vault

Partner Community/Benefitting Area: Northbrook

Status: Preliminary Design

Estimated Construction Cost: \$12,000,000

Summary: The Wescott Park Stormwater Reuse Project in Northbrook calls for the construction of a 7.5 million gallon stormwater storage vault under Wescott Park. The MWRD will fund green infrastructure improvements that include an electronic control system and irrigation system to allow the reuse of the stormwater and keep it out of the North Branch of the Chicago River.

Dearborn Homes GI

Description: Install control system and sewers to regulate stormwater stored in existing vault

Partner Community/Benefitting Area: Chicago

Status: Preliminary Design

Estimated Construction Cost: \$1,500,000

Summary: The Dearborn Homes Green Infrastructure Project will construct and install storm sewers, structures, irrigation equipment, rainwater harvesting pumps, water service connections and the OptiRTC control tool to reuse the detained stormwater for irrigation of nearby landscaping for seven buildings within the complex in the Bronzeville neighborhood on the Near South Side of Chicago. The new control system and sewers will regulate stormwater stored in an existing vault. The project will assist in fulfilling requirements in the Green Infrastructure Section of the Combined Sewer Overflow Consent Decree.

Kenilworth GI

Description: Install permeable pavement in streets in flood prone area

Partner Community/Benefitting Area: Kenilworth

Status: Design

Estimated Construction Cost: \$6,900,000

Summary: The Kenilworth Green Infrastructure Project consists of installing permeable pavement in streets in flood prone areas of Kenilworth that include Cumberland Avenue, Roslyn Road and Melrose Avenue. The MWRD will partner with the village to install permeable asphalt pavement and native landscaping to help reduce flooding in the combined sewer area of Kenilworth. The Village identified 105 homes which will directly benefit from the project. This number does not include the significant amount of structures downstream of the project that will also receive a direct benefit as a result of reduced pressure on the system. The project will provide approximately 1.3 million gallons of stormwater storage.

Wilmette Green Alleys

Description: Install 5 permeable alleys instead of conventional asphalt to reduce flooding and reduce flow to sewer system

Partner Community/Benefitting Area: Wilmette

Status: Complete

Construction Cost: \$839,000

Summary: The Wilmette Green Alleys Project included the installation of four permeable alleys instead of conventional asphalt to reduce flooding and reduce flow to sewer system. The MWRD is partnering with Wilmette to enhance urban sustainability by encouraging stormwater to infiltrate into the soil, instead of collecting on hard surfaces and draining into the sewer system. The project will provide 113,203 gallons of retention.

Berwyn GI

Description: Install green alleys and permeable pavement in local streets

Partner Community/Benefitting Area: Berwyn

Status: Preliminary Design

Estimated Construction Cost: \$5,200,000

Summary: The Berwyn Green Infrastructure Project calls for the installation of green alleys and permeable pavement in local streets. MWRD is partnering with Berwyn to construct 20 green alleys and install permeable pavement on Oak Park Avenue from 31st Street to 32nd Street, Stanley Avenue from Clinton Avenue to Wesley Avenue, Windsor Avenue from Harlem Avenue to Wesley Avenue, and Grove Avenue from 32nd Street to 34th Street to help alleviate localized flooding as well as reducing the flow of stormwater into the local combined sewer system.

Skokie GI

Description: Install rain garden at Devonshire Park and detention pond improvements at police station

Partner Community/Benefitting Area: Skokie

Status: Conceptual

Estimated Construction Cost: \$500,000

Summary: The Skokie Green Infrastructure Project is a partnership between the MWRD and the village working to construct a 7,800-square-foot rain garden to be located at Devonshire Park and detention pond improvements at the Skokie police station. This project will address localized flooding at the intersection of Greenwood Street and Kenneth Terrace. The rain garden's location at a public park will serve to further the MWRD's goal of informing the public of the value of green infrastructure.

Niles GI

Description: Construct bioswale and permeable pavement parking lot at park site

Partner Community/Benefitting Area: Niles

Status: Design

Estimated Construction Cost: \$395,000

Summary: The Niles Green Infrastructure Project will include bioswale and permeable pavement parking lots. The MWRD is partnering with Niles to construct a bioswale and permeable pavement parking lot at Oak Park, which is a park centrally located in Niles. This project will reduce localized flooding, reduce the flow of stormwater into the local combined sewer system and provide educational and volunteer opportunities for the community.

Crestwood GI

Description: Construct bioswale and permeable pavement at public parking lots

Partner Community/Benefitting Area: Crestwood

Status: Preliminary Design

Estimated Construction Cost: \$4,702,000

Summary: The Crestwood Green Infrastructure Project will include bioswales and permeable pavement at public parking lots in Crestwood. The MWRD is partnering with Crestwood to construct permeable pavement and bioswales at the Biela Senior Citizen Center and at its municipally owned parking lots adjacent to the Standard Bank Stadium to alleviate localized flooding. Construction of green infrastructure at these publicly accessible and highly trafficked locations will provide an opportunity to educate the public concerning the benefits of GI in addition to providing needed flood relief in the immediate area.

