



M E M O

To: Chairperson Guy Franzese
Members of the Village of Burr Ridge Stormwater Committee

From: David Preissig, P.E., Director of Public Works & Village Engineer

Date: November 6, 2015

Subject: Agenda Summary for Stormwater Committee Meeting on November 10, 2015

1) CALL TO ORDER

2) ROLL CALL

3) APPROVAL OF MINUTES FROM THE FEBRUARY 10, 2015 STORMWATER COMMITTEE MEETING

Please see attached minutes for consideration.

4) CONCERNS AND COORDINATION WITH PINE TREE LANE RESIDENTS RELATED TO ST. MARK COPTIC CHURCH EXPANSION

The Village has worked fastidiously with the owners, engineers, and builders involved in the addition and site modifications to St. Mark Coptic Church, 15 W. 455 79th St. The permit process for this work began in April 2014. In addition, the Village has coordinated improvements provided by the Church to landscaping and drainage for adjacent homeowners on Pine Tree Lane, summarized below. *(Please see attached picture and grading plan)*

In September 2014, Pine Tree HOA met with the Village on-site to discuss landscape screening and draining depressional areas along the common St. Mark/Pine Tree lot line. The Pine Tree HOA preferred surface grates and an underdrain system of rigid, perforated pipe connected to existing storm sewer structures, as opposed to the prior-approved flared end concrete pipes. St. Mark owners and builders accommodated this change – largely constructed on Pine Tree subdivision property in a drainage easement – and restored all disturbed land to existing conditions. St. Mark also extended a berm and re-located existing arborvitae at the request of the Pine Tree HOA.

In May 2015, St. Mark requested consideration to add a berm at the southeast corner of their property to alleviate costs to dispose of site excavated clay soils. The concept was reviewed

by the Village at that time and swales on the sides were requested to drain to the detention facility from the west and southeast sides of the berm. Additional landscaped screening with arborvitae was also to be provided.

Wet summer months, combined with incomplete construction of the approved swales, led to additional meetings in August and September 2015, between the Pine Tree HOA and the Village. Pine Tree HOA again agreed to allow work in their drainage easement and would adjust their own irrigation lines, so that a better drainage swale could be provided along the southeast corner of the St. Mark property. Additionally, removal of diseased trees and modifications to the landscape plans were requested.

In October, 2015, the Village worked with the engineer for the St. Mark improvements and designed a swale that blends well with the adjacent private properties, and approved a revised landscaping plan. The Pine Tree HOA also approved these modifications.

5) CONCERNS OF SHAGBARK COURT RESIDENT RELATED TO PROPOSED BUCKTRAIL ESTATES SUBDIVISION

The proposed Bucktrail Estates subdivision is located at the southern end of Bucktrail Drive, and is approximately 5.03 acres in size. The site currently contains one single-family residence. Existing drainage for 2/3 of the site is directed south and east towards an off-site catchbasin connected to an existing storm sewer behind 11794 Shagbark Court. Other site runoff exits the site to the west.

The proposed subdivision would be five residential lots, and include five single-family residences, a cul-de-sac, sidewalk, utility services, storm sewer along the northern and southern property lines, and a stormwater detention basin along the eastern property line. Proposed drainage of the site will be collected and routed to the basin by the proposed storm sewers. Detention and volume control requirements were determined using new MWRD Watershed Management Ordinance (WMO) methodology. The *proposed* outlet for the detention basin was to the west into the existing storm sewer. (*Please see attached preliminary engineering plan*)

In September 2015, the Village reviewed the preliminary engineering plans. Overall, intercepting the overland flow from the development into the proposed detention basin will reduce runoff into and through the properties of the adjacent Burr Oaks Glen South subdivision. However, Public Works commented that the existing storm sewer system behind 11794 Shagbark Court is only an 8" PVC pipe. This pipe accommodates only rear yard drainage from the pre-development condition of a single-family residence on Bucktrail, and the rear yards of the Burr Oaks Glen South subdivision. This pipe is not by itself a suitable outlet for stormwater discharge from Bucktrail Estates, and other outfalls must be investigated by the developer, which may include storm inlets on Bucktrail Drive or a storm inlet between lots 9 and 10 of the Cross Creek Subdivision.

A resident from 11794 Shagbark Court shared similar concerns, met with the Village on-site in October 2015, and spoke to the Village Board at its meeting on October 12, 2015. The homeowner had done extensive landscaping to intercept and re-direct overland flow and



groundwater seepage from the west (pre-development Bucktrail Estates). The homeowner is concerned for the effects on their property from the proposed site development. The resident also believes that groundwater seepage is coming through the gravel bed of the former pathway running between 83rd Street and 79th Street. The pathway was removed many years ago, but the homeowner is concerned that the gravel base still carries water.

Public Works will monitor the groundwater conditions in wet weather, and is working with the site development engineer for a suitable detention outfall and to improve off-site conditions.

6) CONCERNS OF PEPPER MILL COURT RESIDENTS

In August 2015, residents from Pepper Mill Court subdivision approached the Village with the following drainage concerns in their subdivision:

- 1) Standing water around the storm sewer grates often blocks the roadway between 3 and 4 Pepper Mill Court, and is occurring more frequently.
- 2) Overland flow from adjacent Willowbrook properties on Garfield Street is overtopping and eroding the berms and wood retaining wall behind 8 Pepper Mill Court.
- 3) Stormwater is flowing over Elm Street from east to west and into the side and rear yards of 1 Pepper Mill Court. *(Please see attached pictures)*

In response to Item 1), Public Works inspected the storm sewer in the adjacent Elm Court subdivision and found that a detention basin restrictor was missing. This accelerated stormwater discharge from the Elm Court detention basin that flows into the storm sewer system passing through Pepper Mill Court. The older, sensitive sewer system in Pepper Mill would surcharge, and overtop the sewer grates in the roadway. Public Works replaced the detention basin restrictor, and inspected the system in recent heavy rainstorms. This system appears to be functioning as intended and no street ponding was observed in Pepper Mill Court.

The Village met with residents in September 2015 to discuss Item 2), and followed up with the resident of 8 Pepper Mill Court in October 2015. The subdivision grading was originally designed to accept overland flow from the west in a drainage swale behind 7 and 8 Peppermill Court. Several years of grading and drainage modifications by two separate owners, along with maturing trees and landscaping has altered this flow. Public Works crews constructed a block wall behind the southwest corner of 8 Pepper Mill Court to redirect some of off-site stormwater into the Elm Court detention basin, which has alleviated some of the concern. Village engineering staff discussed alternatives with the homeowner of 8 Pepper Mill Court, and will continue to provide assistance in correcting the landscaping, grading, and drainage.

The Village will also inspect the Elm Street drainage system to investigate Item 3). Elm Street drainage is provided in culvert pipes, roadside ditches, shallow drainage swales, and a 10" black plastic pipe installed in 2004 along the east side between 6309 Elm Street and the Burr Ridge Club. Future improvements may include replacement and extension of culvert pipe under Pepper Mill Court, and re-grading the roadside ditches. Pepper Mill Court is programmed for resurfacing in 2019 at current funding levels.



7) CONCERNS OF COMMUNITY DEVELOPMENT DEPARTMENT IN REAR YARDS AT 8600 BLOCK OF HEATHER DRIVE & WEDGEWOOD DRIVE

In June 2015, the Community Development Department received a complaint relating to stormwater drainage as a result of unapproved site modifications at 8633 Heather Drive. The Village's Code Compliance Officer responded, and involved the Village's engineering staff. A concrete wall had been constructed in 8633 Heather without a permit. Staff observed other conditions in adjoining properties of the Lakewood of Burr Ridge subdivision, and noted specific elements in each property that contribute to the overall poor drainage characteristics within that area.

The Village recently sent letters to six homeowners with requirements for maintenance of storm water facilities and recommendations for the control of runoff. The Village's Code Compliance Officer has also sent a separate notice to 8633 Heather Drive to remove the non-permitted construction. *(Please see attached correspondence)*

8) UPDATE REGARDING DRAINAGE CONCERNS BETWEEN CARRIAGE WAY CONDOMINIUMS AND TOWER DRIVE

In October 2015, Public Works staff met on-site with a homeowner of the Carriage Way Club to receive a synopsis on drainage matters related to the Carriage Way Condominium HOA and industrial properties along Tower Drive. These matters were last discussed by this Committee at its November 11, 2014 regular meeting.

The Village observed that the Carriage Way Condos drainage swale was recently modified and provides a 6" diameter plastic pipe conveying the roof drain runoff. The pipe terminates at the drainage swale in Carriage Way Club, where previously performed work includes large stone to address erosion and runoff at that location. The water is then conveyed by closed sewer systems to the Park District property, then to the Tollway property, then to Flagg Creek. *(Please see attached picture)*

No work is occurring on the Tower Drive industrial properties.

Village staff will continue to monitor work in the Carriage Way Condominiums and seek to provide relief when re-development may occur for industrial properties along Tower Drive.

9) UPDATE REGARDING NPDES GENERAL STORM WATER PERMIT FOR MS4'S

Typically in May of each year, the Village submits to the Illinois Environmental Protection Agency (EPA) its annual report for the General Storm Water Permit for Small Municipal Separate Storm Sewer Systems (MS4). This is to be compliant with the National Pollutant Discharge Elimination System (NPDES) Phase II program.

This past week, Public Works Director David Preissig called the Illinois EPA to inform them of the change in staff and apparent lapse in reporting. I spoke with Ms. Cathy Demeroukas of



the Illinois EPA Bureau of Water, Division of Water Pollution Control Permit Section in Springfield. We agreed the Village will provide its latest annual report by mid-January 2016.

Fortunately, the Illinois EPA's requirements for permitting and updates expired March 31, 2014. Therefore, the Village was still covered by its previous submittals and still compliant, even with the lapse in reporting. As far as a new permit – it's unclear to the Illinois EPA when it will be finalized. It is still best practice to update the Village's Annual Report for the NPDES General Stormwater Permit.

10) UPDATE REGARDING INTERGOVERNMENTAL AGREEMENT FOR AUTHORIZATION TO ADMINISTER THE WATERSHED MANAGEMENT ORDINANCE (COOK COUNTY).

The Watershed Management Ordinance (WMO) was adopted by the Metropolitan Water Reclamation District of Greater Chicago (MWRD GC) and sets forth uniform minimum requirements for the management of stormwater, floodplains, wetlands, and sewer construction for developments in Cook County. Components which are regulated under the WMO include drainage and detention, volume control, floodplain management, isolated wetland protection, riparian environment protection, and soil erosion and sediment control. The WMO went into effect on May 1, 2014 and was amended on July 10, 2014.

Article 14 of the WMO allows local municipalities to become authorized to administer aspects of the WMO. In July 2015, the Village of Burr Ridge became authorized by submitting a letter of intent to MWRD and executing an intergovernmental agreement with MWRD. (*Please see attached MWRD correspondence*)

This is now similar in process to stormwater permits required on the DuPage County developments in the Village. Village engineering staff has only recently issued WMO permits for developments and is coordinating with MWRD on requirements and guidance.

ATTACHMENTS

Minutes, February 10, 2015

St. Mark Coptic Church at Pine Tree Lane: Pictures and Grading Plan

Bucktrail Estates Subdivision Preliminary Engineering Plan

Peppermill Court at Elm Street: Pictures

Correspondence with 8600 Block of Heather Drive & Wedgewood Drive

Carriage Way Condominium HOA Drain Pipe Installation

MWRD Correspondence for Intergovernmental Agreement for Authorization to Administer the WMO



MINUTES
STORMWATER MANAGEMENT COMMITTEE MEETING
February 10, 2015

AGENDA
ITEM 3

CALL TO ORDER

Chairman Guy Franzese called the meeting to order at 7:00 PM

ROLL CALL

Present: Chairman Guy Franzese, Trustee Len Ruzak, Trustee Al Paveza, Nancy Montelbano, Alice Krampits, Wayne Mrjenovich

Absent: Wil Wilcox

Also Present: Village Administrator Steve Stricker, Public Works Director/Village Engineer Paul May

APPROVAL OF MINUTES

A **motion** was made by Nancy Montelbano to approve the minutes of November 11, 2014. The motion was **seconded** by Len Ruzak and **approved** by a vote of 6-0.

STREAM CLEAN-UP MAILING TO PROPERTY OWNERS WITH STREAM FRONTAGE

Public Works Director Paul May presented the Committee with a draft letter that he proposed to send out as he does every spring to property owners with streams on their property. Committee member Ruzak stated that he thought the letter could be worded a little stronger to better convince residents to take action to maintain the streams on their properties. Committee member Nancy Montelbano disagreed, saying that she felt that it was OK as is. Committee member Ruzak suggested that the letter be accompanied by some of the backup material that the Public Works Director had prepared regarding stream bank maintenance. Public Works Director May stated that he could add more to the flyer to make it more direct.

Committee member Al Paveza indicated that we seem to always be discussing rules established by DuPage County and wondered about Cook County. In response, Mr. May stated that it's only been in the past few years that Cook County, through the MWRD, has had a current stormwater ordinance. He also indicated that there are very few streams in Cook County other than Flagg Creek itself, and that fewer drainage issues exist there.

Chairperson Franzese suggested that the materials include litter as an obstruction to be cleared along the streams.

After some discussion, a **motion** was made by Len Ruzak to send the letter to residents who have streams on their property as amended. The motion was **seconded** by Al Paveza and **approved** by a vote of 6-0.

PUBLIC INFORMATION CAMPAIGN MATERIALS RELATIVE TO STORMWATER

Public Works Director May presented the Committee with several stormwater related flyers, including those on clean water, drainage, rain gardens, stream maintenance responsibility and water conservation. He stated that these flyers are used at various times in newsletters, shown on local access TV, and are available on the website. He stated that they are also sent to residents in response to questions they may have or service requests that are processed through the Public Works Department. Committee member Paveza suggested that, when an information piece such as this is put on the front page of the website to promote it, the Stormwater Committee and Village Board members be made aware of it.

In response to the rain barrel flyer, Committee member Ruzak asked if there is a way that residents could purchase rain barrels at a reduced cost. In response, Mr. May stated that both DuPage County and the MWRD have programs to allow residents to purchase rain barrels at a reduced cost.

Committee member Wayne Mrjenovich stated that he would like to have information added in the water conservation flyer regarding water sprinkler conservation. Administrator Stricker agreed and suggested that the Village's current lawn sprinkling restrictions be added.

Chairperson Franzese applauded Public Works Director May for his work on preparing the flyers.

After some discussion, a **motion** was made by Nancy Montelbano to accept the flyers as amended. The motion was **seconded** by Len Ruzak and **approved** by a vote of 6-0.

DUPAGE COUNTY STORMWATER ASSESSMENT SURVEY

Public Works Director May presented an overview of the recently completed Stormwater Assessment Survey as prepared by DuPage County. He stated that DuPage County operates as the umbrella agency when it comes to stormwater management and enforcement. He indicated that DuPage County has been actively engaging communities in a process to assess stormwater management needs throughout the County. He stated that the County is in the process of determining whether to increase the level of service that is currently provided and to develop ways in which to pay for these additional services, including the possibility of creating a stormwater utility.

Public Works Director May presented the Committee with a definition of what the County deems to be a regional project, stating that flooding needs to be the result of overbank flooding and that the only official evaluation criteria established by the Committee is a goal to reduce 95% of the damages from a recurrence of the 1987 major flood event. He stated that a regional project also needs to impact more than one community. He stated that the Village of Burr Ridge has no projects or issues that would qualify for funding from the County under this definition.

Public Works Director May reviewed the highlights of the survey, indicating that, although there was some interest in a higher level of service for particular questions, there were no categories in which the majority of communities indicated that the County should provide this higher level of service on behalf of the local agencies. He stated that the DuPage Mayors and Managers Conference's review of the survey indicated that "while implementation of higher levels of service is always desired, such decisions must be made with knowledge of increased costs and method of funding. In addition, municipal response to funding options will likely be dependent on the procedures for determining where funds will be spent for projects such as revised flood plain mapping, watershed studies and flood control projects. The prioritization or selection process that shows funding is distributed in a fair and equitable manner and prioritizes spending throughout all watersheds in the County is critical. This is preferable to a system that continually collects funds in areas of the County which rarely receive benefits from County stormwater projects."

Public Works Director May stated that he would continue to monitor the County's action in regard to this matter in order to keep the Committee informed.

AUDIENCE COMMENTS

Chairperson Franzese asked if anybody in the audience had any comments. None were forthcoming.

OTHER BUSINESS

Administrator Stricker mentioned that Staff is in the process of preparing the annual budget and that the budget for the Stormwater Fund will not change significantly. Public Works Director May stated that there is not enough money available to do any large scale projects and that there is only a small amount of money to take on smaller maintenance-type issues. He stated that he would provide a copy of the final budget in the packet for the next meeting.

ADJOURNMENT

There being no further business, a **motion** was made by Nancy Montelbano to adjourn the meeting. The motion was **seconded** by Len Ruzak and **approved** by a vote of 6-0. The meeting was adjourned at 7:45 p.m.

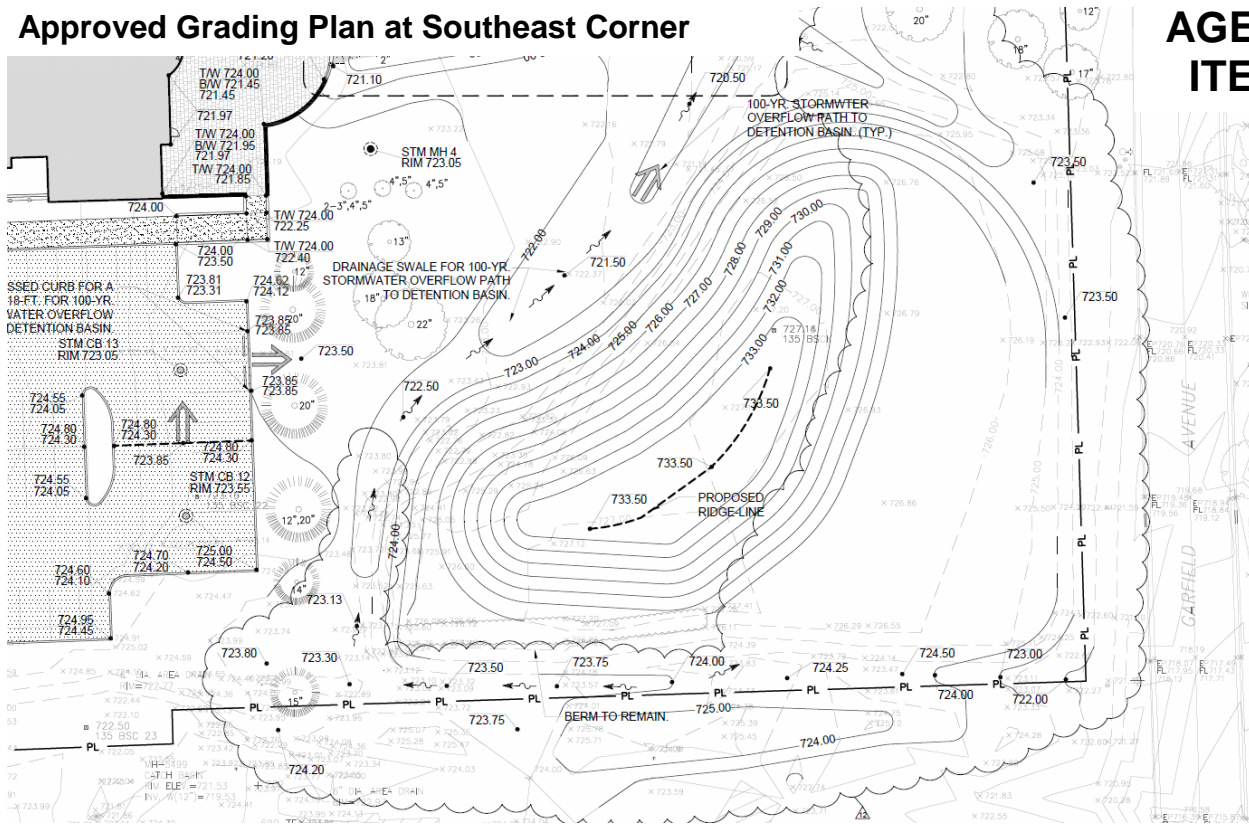
Respectively submitted,

Steve Stricker
Village Administrator

SS:bp

Approved Grading Plan at Southeast Corner

AGENDA ITEM 4



Looking west from Garfield Street at property line



AGENDA ITEM 5



AGENDA ITEM 6

**Elm Street, looking North at
Pepper Mill Court**



**Existing drainage swale
behind 8 Pepper Mill Court**





VILLAGE OF
BURR RIDGE
A VERY SPECIAL PLACE

7660 County Line Rd. • Burr Ridge, IL 60527
(630) 654-8181 • Fax (630) 654-8269 • www.burr-ridge.gov

Mickey Straub
Mayor

Karen J. Thomas
Village Clerk

Steven S. Stricker
Administrator

**AGENDA
ITEM 7**

November 6, 2015

Mr. & Mrs. Terence Dunleavy
8633 Heather Drive
Burr Ridge, IL 60527

Mr. & Mrs. Mark Arquilla
8632 Wedgewood Drive
Burr Ridge, IL 60527

Mr. & Mrs. Patrick Gregoire
8649 Heather Drive
Burr Ridge, IL 60527

Mr. & Mrs. Lawrence Marcucci
8648 Wedgewood Drive
Burr Ridge, IL 60527

Mr. & Mrs. James Limanowski
8617 Heather Drive
Burr Ridge, IL 60527

Mr. & Mrs. Saulius Ruzenskie
8616 Wedgewood Drive
Burr Ridge, IL 60527

Re: Neighborhood Investigation of Storm Water Runoff

Dear Residents,

The Village of Burr Ridge has recently been investigating the storm water runoff in the adjoining properties located within the Lakewood of Burr Ridge subdivision. In addition, specific elements were observed during our site investigation which contribute to the overall poor drainage characteristics within the area. Please see additional correspondence specific to each property.

Please remember that storm water runoff must occur from a higher elevation property to a lower elevation property. Blocking or otherwise directly routing discharged water from an elevated property directly to another property with the use of pipe or other type of infrastructure is strictly prohibited per Village Code. This also applies to sump pump discharges and down spout discharges. Any such pipe or infrastructure must be removed to a minimum of 6 feet from the property line, or such lines can be connected directly to a storm water catch basin.

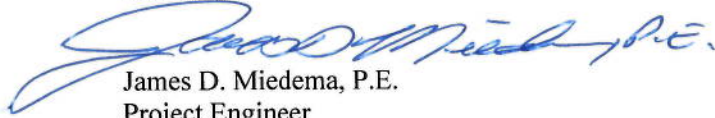
Lastly, please be advised that the storm sewer system located between lots 8617 and 8633 Heather Drive and lots 8616 and 8632 Wedgewood Drive needs to be maintained by this subdivisions homeowners. It has been noted that the storm structures are covered with leaves, silt, mud and branches. The storm sewer lines need to be cleaned for proper functioning. This storm sewer system is a privately owned and maintained storm system and the Village will not conduct this work. We have attached a list of qualified contractors that clean out storm sewers. We suggest that the sewers and structures be cleaned on a bi-annual basis.

We have included under separate cover specific requirements for the maintenance of storm water facilities and recommendations for the control of runoff. Please be aware that storm water discharges in areas of poor grading can contribute to ponding water, poor

landscaping, and dead sod. Most landscape cannot tolerate standing water. When the landscaping is continually saturated, the landscaping can no longer sustain itself which in turn begins to erode the soil and cause silt and mud runoff to occur.

Village Staff can be reached at (630)-323-4733 to discuss this matter in more detail.

Sincerely,

A handwritten signature in blue ink, reading "James D. Miedema, P.E.", with a stylized flourish at the end.

James D. Miedema, P.E.
Project Engineer
Village of Burr Ridge

CE: Cheryl Smith, Code Compliance Officer
David Preissig, P.E. - Director of Public Works, Village Engineer

**AGENDA
ITEM 8**



Protecting Our Water Environment

BOARD OF COMMISSIONERS

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Kari K. Steele
Patrick D. Thompson

AGENDA ITEM 10

Metropolitan Water Reclamation District of Greater Chicago

100 EAST ERIE STREET CHICAGO, ILLINOIS 60611-3154 312.751.5600

CATHERINE A. O'CONNOR, Ph.D., P.E.
Director of Engineering

312.751.7905 f: 312.751.5681
catherine.o'connor@mwrdr.org

July 14, 2015

RECEIVED

JUL 17 2015

VILLAGE OF BURR RIDGE

Steven Stricker
Village Administrator
Village of Burr Ridge
7660 County Line Road
Burr Ridge, Illinois 60527

ORIGINAL: VILLAGE CLERK
CC: PW DIRECTOR

Dear Mr. Stricker:

Subject: Intergovernmental Agreement for Authorization to Administer the
Watershed Management Ordinance

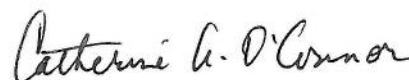
A fully executed Intergovernmental Agreement (IGA) to administer the Watershed Management Ordinance (WMO) is enclosed. Per Article 2, number 7 of the IGA, the Metropolitan Water Reclamation District (District) shall notify the Village of Burr Ridge (Municipality) of any amendments to the WMO and the Municipality shall adopt all amendments by reference. The District amended the WMO on July 10, 2014, which can be viewed at wmo.mwrdr.org. Please provide a record of adopting the recent amendment by reference.

For proper tracking of permits, permit numbers will be issued by the District. Therefore, during review of a WMO permit, please contact the District's Local Sewer Systems Section at (312) 751-3255, to obtain a permit number. The following WMO permit submittals must be reviewed and approved by the District.

1. Permit documents for development activities outlined in Section 201.2 of the WMO, which includes qualified sewer construction, modifications to an existing detention facility, construction of a new outfall, and direct connections to District facilities.
2. Permit applications for development within a combined sewer area.
3. Permit applications for your Municipality's own projects.

We appreciate your partnership with WMO administration. If you require further information, please contact Ms. Lynn Kohlhaas at (312) 751-3242.

Very truly yours,



Catherine A. O'Connor
Director of Engineering

WSS:JPM:JBS:ci
Enclosure