



Public Works Committee Agenda

Tuesday, February 25, 2020 at 5:00pm

Whitefish Bay Village Hall 2nd Floor Board Room

- 1. Call to Order**
- 2. Review and Approve minutes of January 28, 2020 Public Works Committee Meeting**
- 3. Review and Possible Recommendation - Village 2020 Pilot Foundation Drain Disconnect (FDD) Program**
- 4. Review 2020 Village Project Update**
 - **Sanitary Main / Manhole Lining Project**
 - **Road Rehabilitation Project**
 - **Alley Reconstruction Project**
 - **Sidewalk / Pavement Marking / Crackfilling Projects**
 - **DOT HSIP Lake Drive Safety Project**
 - **City of Glendale - Port Washington Road Intersection Projects – detour route along Lydell Avenue (Hampton Road to Henry Clay Street)**
 - **City of Glendale - Lydell Avenue Reconstruction Project (Silver Spring Dr to north of Belle Avenue)**
Whitefish Bay Resident Public Info Meeting – Monday, March 3 @ 5:00pm – Village Hall
 - **Klode Beach erosion status**
 - **Ice Rink Project**
 - **Fire Station Project**
 - **Consaul Commons Redevelopment Project**
 - **Stormwater, Water, Plumbing and Sewer Ordinance rewrites**
 - **3 vacant Public Works Department positions to be filled**
 - **North Shore Water Commission Underground Storage Tank Rehabilitation**
- 5. Next scheduled meeting – to be determined**
- 6. Adjournment**

Cc: Village Board; Village Manager, Department Heads; Village Attorney

Posted: 2/21/2020 Note: It is possible that members and/or possibly a quorum of members of other governmental bodies of the municipality may be in attendance at the above-stated meeting to gather information; action will not be taken by any governmental body at the above-stated meeting other than the governmental body specifically referred to above in the notice.



Public Works Committee Minutes

Tuesday, January 28, 2020, at 5:00 pm

Whitefish Bay Village Board Room

I. Call to Order and Roll Call:

Present: Chairperson Jay Miller, Trustee Serebin, Trustee Buckley, Trustee Davis (Arrived 5:15 pm)

Also Present: John Edlebeck – Public Works Director, Paul Boening – Village Manager, Tim Blakeslee – Assistant Village Manager, Patrick Whitaker – Police Lieutenant, Spencer Charczuk – Staff Engineer.

Absent with notice: Tom Kindschi

II. Review and Approve minutes of December 10, 2019 Public Works Committee Meeting:

Trustee Serebin moved to approve the minutes of the December 10, 2019 Public Works Committee Meeting. Trustee Buckley seconded. Motion passed 3-0.

III. Public Informational Meeting - 2020 Alley Reconstruction Project (South of Silver Spring Drive between Bay Ridge Avenue and Kent Avenue)

Public Works Director Edlebeck provided a summary of the project and opened the floor for public comments.

JAMIE G MANTYH (5578 N BAY RIDGE AVE) asked about parking, snow removal, speed limits, and stop signs.

KELLEY CRONKITE (5577 N KENT AVE) asked about drainage and fence location.

IV. Review and Possible Recommendation - Village Overnight Winter Parking Regulations

Lieutenant Patrick Whitaker provided a summary of the current parking regulations and the proposed regulations for even-odd overnight parking. In general, the Public Works Committee liked the proposed changes. There was a discussion about the current zones and calling in for overnight parking. There was a discussion about increasing the number of days of free overnight parking from 15 to 25. There was discussion about have a public hearing or meetings about the change. Trustee Serebin moved to recommend that the Village Board approve the proposed Village Overnight Winter Parking Regulations with the change of 25 free nights from 15 free nights for each license plate. Trustee Davis seconded. Motion passed 4-0.

V. Review and Possible Recommendation - Village Foundation Drain Disconnect (FDD) Pilot Program – Public Works Director Edlebeck provided a summary of the proposed program and the new application that was created. There was a discussion about how residents will be selected, how the program will be advertised, and revising the application to provide maximum flexibility to Village Staff. There was a discussion on if it would be reasonable to get proof of working draining tile and what that cost would be. Public Works Director Edlebeck said that staff would make revisions based on discussion and come back with an updated program.

VI. Review and Possible Recommendation - Village of Shorewood / Village of Whitefish Bay Emergency Water Supply Memorandum of Understanding - Public Works Director Edlebeck provided a summary of the issue and that it would be used in an emergency for one project. There was discussion about expanding mutual aid in the future to more items. Trustee Serebin moved to recommend that the Village Board approve the Village of Shorewood / Village of Whitefish Bay Emergency Water Supply Memorandum of Understanding. Trustee Buckley seconded. Motion passed 4-0.

VII. Review Status of Klode Beach and private property lake bluff concerns - Public Works Director Edlebeck provided a summary of the erosion issues facing Klode Park beach, working with Shorewood, talking with a consultant, and supplying information for a disaster declaration. There was a discussion about the timeline and projected water levels.

Chairperson Jay Miller left at 6:29 pm.

VIII. Review proposed USEPA Drinking Water Lead and Copper Regulation (LCR) Revisions - Public Works Director Edlebeck provided a summary of the rules. There was a discussion about North Shore Water, a lead inventory, and other issues.

IV. Review 2020 Project Update - Public Works Director Edlebeck provided a summary of the Lydell street project, Lake Drive HSIP, and Ice Rink.

X. Adjournment Trustee Buckley moved to adjourn at 6:42 pm. Trustee Davis seconded. Motion passed 3-0.

*Village of Whitefish Bay, Wisconsin
Public Works Department*

*Recommended
2020 Foundation Drain Disconnect (FDD)
Pilot Program*

Prepared by:
Spencer Charczuk, Staff Engineer / John Edlebeck, Director of Public Works
Updated February 19, 2020

Purpose

The Village of Whitefish Bay, Wisconsin has been employing various strategies over the past several years to reduce clear water inflow and infiltration (I & I) into the Village public sanitary sewer system in order to reduce the probability of sanitary sewer system backups. Clear water entering the sanitary sewer system through I & I can overwhelm the public sanitary sewer system and place susceptible residents at risk for sanitary sewer basement backups. In order to reduce the probability of private property basement backups the Village has lined and replaced many public sanitary sewer mains as well as lined over 300 private sanitary sewer laterals over the past several years. This sanitary main and lateral lining work has taken place in a previously defined high priority I & I geographic area of the Village.

The Village is considering a private property foundation drain disconnection (FDD) pilot program with funding assistance from the Milwaukee Metropolitan Sewerage District (MMSD) Private Property Inflow-Infiltration (PPII) reduction program. The disconnection of private property household foundation drains from the public sanitary sewer system will further reduce clear water flows into the public sanitary sewer system and provide sanitary sewer backup relief to downstream properties.

Properties that Qualify:

- Be located in the approved geographic location (see map). There are approximately 135 properties within the high priority I & I area with existing private storm sewer laterals and approximately 425 properties outside the high priority I & I area with existing private storm sewer laterals.
- Have an active foundation drain that discharges directly into their private sanitary sewer lateral and then the public sanitary sewer system.
- Install a foundation drain disconnect system that meets the following parameters:
 - Sump basin minimum size of 18" diameter wide and 22" deep.
 - Submersible pump size of 1/3 horsepower or greater.
 - Battery backup installed
 - Hour use totalizer included

- Residents willing to report totalizer hours to Village staff upon request.
- Existing sanitary sewer lateral palmer valve capped off at the floor drain.
- New sump pump system discharges directly to a buried private storm sewer lateral that is connected to the public storm sewer system.
- Obtain all required plumbing /electrical construction permits and inspections.
- Submit to the Village all paid expense receipts for the project
- Village staff believes that this FDD work will redirect foundation drain clear water away from the public sanitary sewer system.

Properties that do not Qualify

- Any new sump pump installations as required per Village building code for new construction, remodeling or additions
- Existing sump pump system replacements, repairs or modifications
- FDD systems that discharge above ground at-grade and not into an approved underground storm sewer pipe.
- Any resident that does not meet all of the listed program requirements
- Any property where Village staff deems that the proposed FDD system will not provide a reduction in clear water flows to the public sanitary sewer system.

Incentive Amount

Village provides up to a \$5,000 reimbursement payment to approved property owners.

Funding

The Village will submit a 2020 Work Plan to MMSD for review and approval to utilize MMSD PPII Reduction Program monies to assist in funding this Village FDD Program. The Village would fund in 2020 up to \$50,000 in incentive payments utilizing 2020 Village PPII budget monies matching a requested \$50,000 in MMSD PPII funding for 2020. This would fund at minimum 20 sump pump installations in 2020.

The Application Process

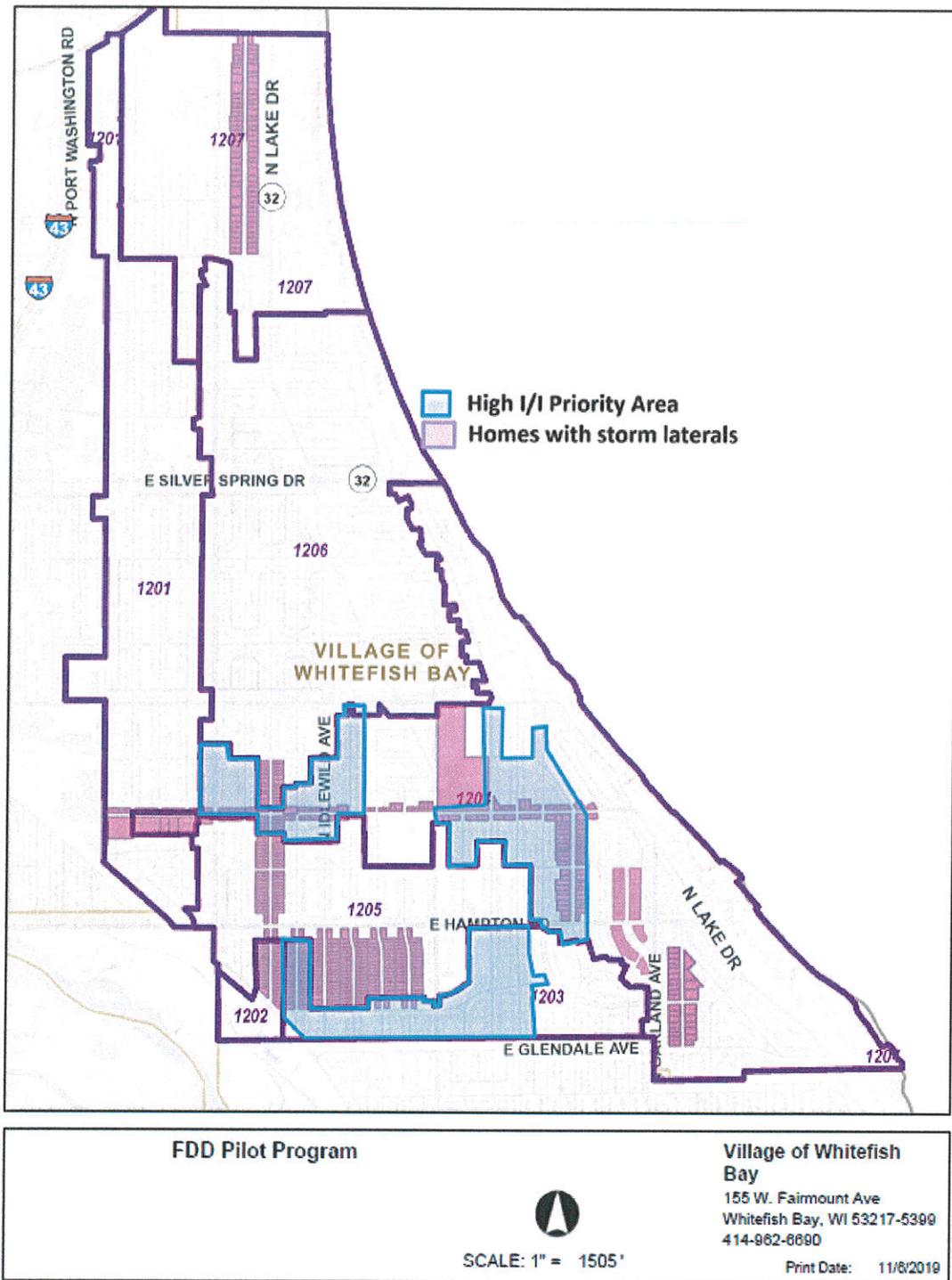
1. Fill out and submit to the Village the FDD Program application form.
2. Village staff will then review the application for approval based on the published program qualifications.
3. The submittal of this FDD application does not guarantee acceptance into the FDD Program. Applications will be reviewed as they are received on a first come, first serve basis. Village staff will review the application for approval meeting all published qualifications and reserves the right to rank and select applicants to best serve the Village.

4. Upon Village approval, the property owner must then install the sump pump system meeting all program requirements within 180 days of Village approval notification.
5. Within 30 days of FDD project completion, request a Village sump pump system inspection.
6. Obtain an approved Village sump pump system inspection that meets all FDD Program parameters.
7. Submit copies of all paid receipts for the FDD project to the Village.
8. Village staff will then review, and if approved, send the property owner an incentive check in the amount of up to \$5000.

Map Attachment

- Private properties in the Village identified with existing private storm sewer laterals also showing the High Priority I & I geographic area in the Village as determined by previous public sanitary sewer main flow monitoring studies.

Map showing existing storm laterals in the high I/I area





Village of Whitefish Bay, Wisconsin
Public Works Department
Private Property Foundation Drain Disconnect (FDD)
Pilot Program

(Updated 2/19/2020)

Name: _____ Address: _____

Email Address: _____ Phone #: _____

Properties that Qualify:

- Be located in the approved geographic location (see map).
- Have an active foundation drain that discharges directly into their private sanitary sewer lateral and then the public sanitary sewer system.
- Install a foundation drain disconnect system that meets the following parameters:
 - Sump basin minimum size of 18" diameter wide and 22" deep.
 - Submersible pump size of 1/3 horsepower or greater.
 - Battery backup and Hour use totalizer included
 - Residents are willing to report totalizer hours to Village staff upon request.
 - Existing sanitary sewer lateral palmer valve capped off at the floor drain.
 - New sump pump system discharges directly to a buried private storm sewer lateral that is connected to the public storm sewer system.
- Obtain all required construction permits and inspections.
- Submit to the Village all paid expense receipts for the project
- Village staff believe this work will redirect foundation drain waters away from the sanitary sewer system

Properties that do not Qualify:

- Any new sump pump installations as required per Village building code for new construction, remodeling or additions
- Existing sump pump system replacements, repairs or modifications
- FDD systems that discharge above ground at-grade and not into an approved underground storm sewer pipe.
- Any resident that does not meet all of the listed program requirements
- Any property where Village staff deems that the proposed FDD system will not provide a reduction in clear water flows to the public sanitary sewer system.

I wish for my property to be included for consideration in the Village of Whitefish Bay Private Property Foundation Drain Disconnection Program. I understand submittal of this application does not guarantee acceptance into this program. Applications will be reviewed as they are received on a first come, first serve basis. Village staff will review the application for approval meeting all published qualifications and reserves the right to rank and select applicants to best serve the Village. I hereby give permission for Village staff to schedule and conduct an inspection verifying sump pump system installation and foundation drain disconnection upon completion.

Applicant Signature: _____ Date: _____

Submit Application to: Whitefish Bay Village Hall - 5300 N. Marlborough Drive, Whitefish Bay, WI 53217

Questions Contact: Spencer Charczuk- Staff Engineer @ s.charczuk@wfbvillage.org or (414)962-6690 ext. 123

From: Flogel, Jerome <JFlogel@mmsd.com>
Sent: Friday, February 21, 2020 12:11 PM
To: Edlebeck, John; Nadelhoffer, Nick; Charczuk, Spencer; Blakeslee, Tim
Subject: RE: [EXT] Recommended Whitefish Bay 2020 Pilot FDD Program

Hello John,

Thanks for the opportunity to review the document. I think the plan is close to workable for the planning stage and my understanding of your current goal of getting a proof of concept from your committee and board. I have the following comments in two categories. Some of these items I may just need a better understanding of details.

A) Specific to your pilot program document

1. I assume from our conversation yesterday that you are not requiring the homeowner to receive multiple quotes? Asking the homeowner to get quotes is a significant hurdle and has been proven to be an unrealistic and unmanageable expectation for most homeowners. So, we support a strategy that relieves the homeowner from that burden, however, the strategy needs to be defensible in satisfying the intent of public procurement requirements. My primary legal advisor on these matters is out this week so I am punting here. The West Allis model has developed over 9 years where it has been shown that the difference between the cost of the work and the reimbursement is sufficient to relieve us of the burden of 3 quotes. That decision was reached only within the last year after 8 years of requiring them to get quotes and the resulting data. While the District is being asked to only pay ½ of the proposed total cost for WFB, I think this breaks down in the other ½ still being from a public entity and an entity other than the homeowner, the receiver of any incidental monetary benefit of the work completed. This is clearly a key component in your concept which has goals, among others, to achieve maximum participation. Not the final answer but I will need to consult with legal on this one.
2. We don't fund battery backups so whatever the resolve to #1, battery backups would need to be parsed out of our funding. This has been done. Glendale installed backup preventer valves on a project. They were part of the project as a whole but were parsed out.
3. In the engineering weeds somewhat: I recommend the following additions to the installation requirements. They should be standard but lessons learned, not always the case. A minimum gpm at minimum head for the pump. A maximum full load amp rating for the pump. A cheap pump can have a high HP rating and not move enough water and draw too much power doing it. A check valve. An external air gap connection to the storm lateral.

B) Curiosity questions:

- a. Does Whitefish Bay require a storm connection for sump pump discharges by code?
- b. What options has the Village looked at for the run time meters? I assume you are leaving this up to the electrician and plumber but I assume you have looked into the feasibility and cost of the requirement?

Thanks,
Jerome

From: Edlebeck, John <J.Edlebeck@wfbvillage.org>
Sent: Wednesday, February 19, 2020 11:32 AM
To: Flogel, Jerome <JFlogel@mmsd.com>; Nadelhoffer, Nick <NNadelhoffer@mmsd.com>; Charczuk, Spencer <S.Charczuk@wfbvillage.org>; Blakeslee, Tim <T.Blakeslee@wfbvillage.org>
Subject: [EXT] Recommended Whitefish Bay 2020 Pilot FDD Program

Jerome, Nick, Spencer and Tim:

*Village of Whitefish Bay, Wisconsin
Public Works Department*

***2020 Foundation Drain Disconnect (FDD)
Pilot Program***

**Prepared by:
Spencer Charczuk, Staff Engineer
February 15, 2020**

The January 28th Public Works Committee meeting brought forth some questions in regards to the identification of active foundation drains. Below are those questions along with responses.

- Q. Will plumbers involved with the installation of sumps have the ability to televise the foundation drains during construction?
- A. This is all dependent on the contractor. Many in the area do have the equipment, others subcontract for the work. There will be limits as to the extents that the camera could go as it may not be able to navigate tight turns around corners.
- Q. The estimated cost to televise/record those foundation drains?
- A. \$250-\$400
- Q. What are other possible methods to investigate whether drain tiles are operable/broke/plugged from inside of the house.
- A. For testing of interior drain tiles at least 3 openings in the floor would be made at various locations to check for sediment or debris. Water can then be flushed through the hole locations to verify flow. To test an exterior drain tile a "spud" test would be performed in which a probe is pushed into the ground outside and water is injected into the ground to see if the drain tile produces flow. Assuming that the drain tiles will all be perimeter and that we will not encounter any web style drain tiles these test would likely run \$500 in an unfinished basement depending on the extent of testing and location of the drain tile.

When the sump croc is dug out the contractor may also be able to make a determination by inspecting the excavated area. If the exposed drain tile is silty and dry it may not be active. They will look for moisture and evidence of recent activity. Removing palmer valves will not have a negative effect on the sanitary system and will only benefit as it will be fully disconnected. Requiring foundation drain testing may have a negative impact on participation as if there is an issue discovered the homeowner will be aware of a faulty drain tile and if they choose not to replace it would need to disclose at point of sale if they choose to sell. I would recommend the Village follow suit in the manner that West Allis and Village of Greenfield did with their program and not perform foundation drain tile testing.

Spencer Charczuk