



Public Works Committee Agenda

Thursday, July 21, 2016 at 4:00 pm

Whitefish Bay Village Hall

1. **Call to Order**
2. **Review and Approve minutes of May 26, 2016 Public Works Committee Meeting**
see attachment
3. **Review and Approve DOT HSIP (Highway Safety Improvement Project) Grant Application**
see attachment
4. **Review and Approve School House Park Concept Master Plan**
see attachment
5. **Sanitary Sewer Improvement Project Update**
see attachment
6. **2016 Construction Project Update**
7. **Next scheduled meeting – Thursday, August 18, 2016 at 4:00pm**
8. **Adjournment**

Posted: 7/18/16

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.

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

Public Works Committee Meeting Minutes
May 26th, 2016 @ 4:00 PM

Whitefish Bay Village Hall 5300 North Marlborough Drive

I. Call to Order and Roll Call

The meeting was called to order at 5:02 pm.

Present: Trustee Serebin, Trustee Fuda, Trustee Miller, Tom Kindschi.

Also Present: Village Manager Steven Sheiffer, Public Works Director John Edlebeck, and Staff Engineer Spencer Charczuk.

II. Approval of Minutes of April 14th and April 28th, 2016 Public Works Committee Meetings

Trustee Serebin moved, seconded by Trustee Fuda to approve minutes for April 14th and 28th, 2016.

III. Review of Project Engineering Services –see chart

John Edlebeck, Public Works Director, discussed the difference between design engineering services and construction inspection services. The 2016 Roadway and Utility Project utilized Clark Dietz and GAI for design engineering services; Sigma provided construction inspection services.

Design engineering services for the 2016 Sanitary Sewer Improvement Project are being provided by Clark Dietz. Sigma was approved by the Village Board for construction inspection engineering. At this time there is no construction contractor for the project as it has not been bid yet.

IV. Update on Status of Current Projects

The current 2016 Roadway and Utility project has received positive compliments from residents. The contractor, Advanced Construction, has made efforts to keep dust minimal and work with residents to move equipment when driveway access is needed.

Elkhart Ave reconstruction work has not begun at this time.

Sheffield Ave had 4 private lead services replaced; all 32 Village side water services where replaced with polyethylene from the main to the property line.

Alley work is in progress.

Berkeley Blvd has to date 8 private lead services being replaced with 7 remaining; 39 of the 77 Village side water services have been replaced. The contractor removed a parkway tree due to damage during the construction work. Storm laterals for sump pumps and downspouts are being installed. Sanitary sewer manholes on Sheffield have been replaced. Aprons along the Berkeley Blvd project will fully be replaced north of 6182 Berkeley Blvd while aprons south of that address will have the lower half of the apron that abuts the street replaced. Residents have the option to have the apron fully replaced if they opt to pay the bid price for the additional area. Residents are provided options for location of the sump pump storm laterals and will coordinate placement with Spencer Charczuk, Staff Engineer. Trustee Serebin asked what the turf replacement will be. The project specification calls for sod. All front yard easements for the properties where the hill is being reduced have been received.

The 2016 Mill and Overlay Program has been awarded to Payne and Dolan; with Village staff providing needed construction inspection services.

The 2016 Sidewalk Improvement Program has been awarded to D.C. Burbach; the Village will provide all needed construction inspection services. The Village during winter months also performs sidewalk grinding of trip hazards to supplement this work.

The 2016 Lancaster Storm Sewer Project is yet to be awarded. Clark Dietz is providing design engineering services for the project. Storm sewer lining work will take place this fall.

The contract for Clark Dietz to provide consulting engineering services as the Village Engineer will need to be renewed shortly. The original contract was for 2 years and Steven Sheiffer, Village Manager, will review.

Steve Sheiffer discussed the topic of lead water services briefly. Upcoming 2017 capital and maintenance projects are being formulated. Projects are expected to be presented to the Public Works Committee in August and may include tennis courts, tennis court lighting, streetlights, school house park plans, sidewalk rehabilitation and mill and overlay. Trustee Serebin asked if garbage truck replacement will be on the upcoming project list. There are 3 trucks up for replacement in the next few years. PW Director Edlebeck and Village Manager Sheiffer will be reviewing the refuse/recycling/yard waste collection program and giving recommendations to the Village Board that may affect specifications on future equipment purchases.

A meeting with Diversey Blvd residents recently occurred to discuss the upcoming 2016 Sanitary Sewer Improvement Project. An additional meeting is scheduled for Wednesday June 1st at 7:00pm. On Thursday June 9th a Schoolhouse Park Master Plan Committee meeting regarding the Draft Schoolhouse Conceptual Master Plan is scheduled from 7:00-9:00pm.

V. **Next Scheduled Meeting- Thursday, June 16th, 2016 at 4:00pm (tentative)**

Trustee Serebin motioned to adjourn, seconded by Tom Kindschi. Unanimous in favor. Motion approved. Meeting adjourned at 6:15pm.

July 15, 2016

To: Chairman Miller and Public Works Committee Members

From: John Edlebeck, Director of Public Works



Re: WisDOT HSIP Grant Application: Traffic Signals & Pedestrian/Bike Treatments

In 2015 the Village contracted with TADI (Traffic Analysis and Design, Inc.) to apply for a WisDOT HSIP (Highway Safety Improvement Program) Grant for the replacement of the Bay Ridge Avenue / Silver Spring Drive traffic signals. HSIP is a federally sponsored program administered by the Wisconsin DOT that provides 90 percent funding for construction and design costs for qualifying projects up to \$1,700,000. Municipalities are responsible for the remaining 10 percent of the costs, in addition to any cost overruns. This grant submittal and application was successful. Design funding is expected in 2017 with construction funding in 2018.

The Village then hired TADI to complete traffic and pedestrian safety studies on both Silver Spring Drive as well as Lake Drive. Those studies are nearing completion and will be presented to the Public Works Committee in the next month or two. In addition, the village contracted with TADI to prepare and apply for a WisDOT HSIP Grant application for various safety improvements throughout the Village, including additional traffic control signal replacement as well as pedestrian safety features on Silver Spring Drive and on Lake Drive. See attached list of proposed projects for inclusion in the HSIP Grant application.

WisDOT accepts HSIP applications twice a year with the next deadline August 15, 2016. WisDOT bases the grant selection on the benefit/cost ratio of the projects and the available funds. WisDOT and the USDOT have also discussed changing the cost share funding to increase the local share.

Due to a backlog of current HSIP projects, if approved, we are being told that design work for this proposed August 15, 2016 HSIP project submittal would be funded in 2018 with construction funding in 2020. The application that TADI will submit will be general in nature and will allow for some changes in scope and design.

With the above in mind, I recommend the Public Works Committee vote to approve the August 15, 2016 application for the WisDOT HIS Grant as outlined on the attached page and recommend it for Village Board action.

Village of Whitefish Bay – August 2016 HSIP Application

Location	Improvements	Design & Construction Costs*	If Grant Approved	
			Federal Share (90%)	Local Share (10%)
Silver Spring Dr. (Santa Monica to Lake)	New Pavement Markings	\$ 16,560	\$ 14,900	\$ 1,660
Santa Monica & Silver Spring Intersection	New Traffic Signals	\$ 260,000	\$ 234,000	\$ 26,000
Marlborough & Silver Spring Intersection	New Traffic Signals	\$ 275,000	\$ 247,500	\$ 27,500
	Redesigned and Expanded Refuge Islands	\$ 150,000	\$ 135,000	\$ 15,000
Santa Monica & Henry Clay Intersection	New Traffic Signals	\$ 260,000	\$ 234,000	\$ 26,000
	New Pavement Markings	\$ 5,568	\$ 5,010	\$ 558
Marlborough & Hampton Intersection	New Traffic Signals	\$ 250,000	\$ 225,000	\$ 25,000
	New Pavement Markings	\$ 5,568	\$ 5,010	\$ 558
Marlborough & Henry Clay Intersection	Consider Removal of Traffic Signal	\$ 10,000	\$ 9,000	\$ 1,000
	New Pavement Markings & Stop Signs	\$ 7,968	\$ 7,170	\$ 798
Lake Dr.	New Pavement Markings	\$ 98,040	\$ 88,240	\$ 9,800
	Additional Signs (ped, bike, texting) (10)	\$ 3,000	\$ 2,700	\$ 300
Lake Dr. & Belle Intersection	Rapid Flashing Pedestrian Crossing Signs (2)	\$ 28,000	\$ 25,200	\$ 2,800
	Blinking Pedestrian Warning Sign (2)	\$ 1,860	\$ 1,670	\$ 190
	Passive Pedestrian Detection	\$ 5,000	\$ 4,500	\$ 500
	Dynamic Speed Feedback Sign	\$ 3,000	\$ 2,700	\$ 300
Lake Dr. & Day Intersection	Rapid Flashing Pedestrian Crossing Signs (2)	\$ 28,000	\$ 25,200	\$ 2,800
	Blinking Pedestrian Warning Sign	\$ 1,860	\$ 1,670	\$ 190
	Passive Pedestrian Detection	\$ 5,000	\$ 4,500	\$ 500
	Dynamic Speed Feedback Sign	\$ 3,000	\$ 2,700	\$ 300
Lake Dr. & Henry Clay Intersection	Construct Median Refuge	\$ 120,000	\$ 108,000	\$ 12,000
	New Pavement Markings	\$ 5,568	\$ 5,010	\$ 558
	Dynamic Speed Feedback Sign (2)	\$ 6,000	\$ 5,400	\$ 600
Lake Dr. & Fairmount Intersection	Construct Median Refuge	\$ 120,000	\$ 108,000	\$ 12,000
	New Pavement Markings	\$ 5,568	\$ 5,010	\$ 558
	Dynamic Speed Feedback Signs (2)	\$ 6,000	\$ 5,400	\$ 600
Community-Wide (20 locations)	Pedestrian Awareness Signs/Pavement Markings	\$ 6,000	\$ 5,400	\$ 600
Community-Wide (10 locations)	Distracted Driving Signs (no texting)	\$ 3,000	\$ 2,700	\$ 300
Community-Wide (5 intersections)	New Crosswalks	\$ 10,000	\$ 9,000	\$ 1,000
Grand Total		\$ 1,699,560	\$ 1,530,000	\$ 169,560

* Estimated

DANISH OFFSETS

This design helps ensure that the pedestrian is looking toward oncoming traffic before crossing the other side of the roadway.

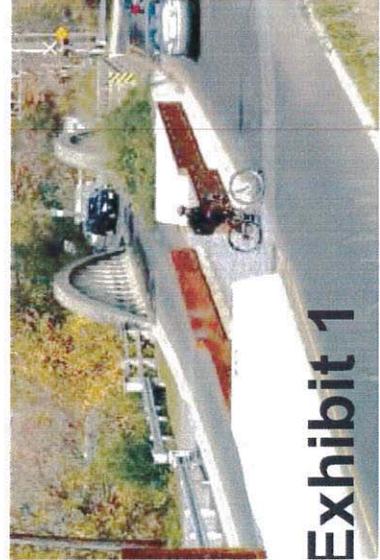
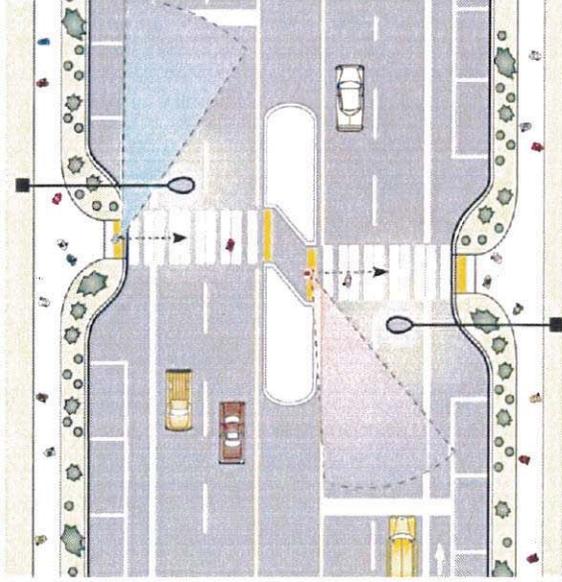


Exhibit 1

Concept Drawing



Danish Offset Median Refuge - Lake Drive/Palisades Road

- Doubles sight distance for NB drivers to see peds
- Provides protected median storage for peds with ample storage
- Separates ped crossing from vehicle turning movements
- Peds directed to one main crossing - expected to reduce jaywalking
- Helps ensure peds in median look towards oncoming traffic

Palisades Rd

Lake Drive

Bartlett Ave

Exhibit 2



Danish Offset Median Refuge, Lake Drive/Woodburn Street

- Lack of dedicated ped crossing in this area
- Nearest to north is about 600 ft away
- Nearest to south is 2000 ft away at Palisades
- Expected to reduce jaywalking in this area
- Provides protected median storage for peds with ample storage
- Helps ensure peds in median look towards oncoming traffic

Concept Drawing



Lake Drive

ENRY CLAY ST



Lake Drive

F HENRY CLAY ST

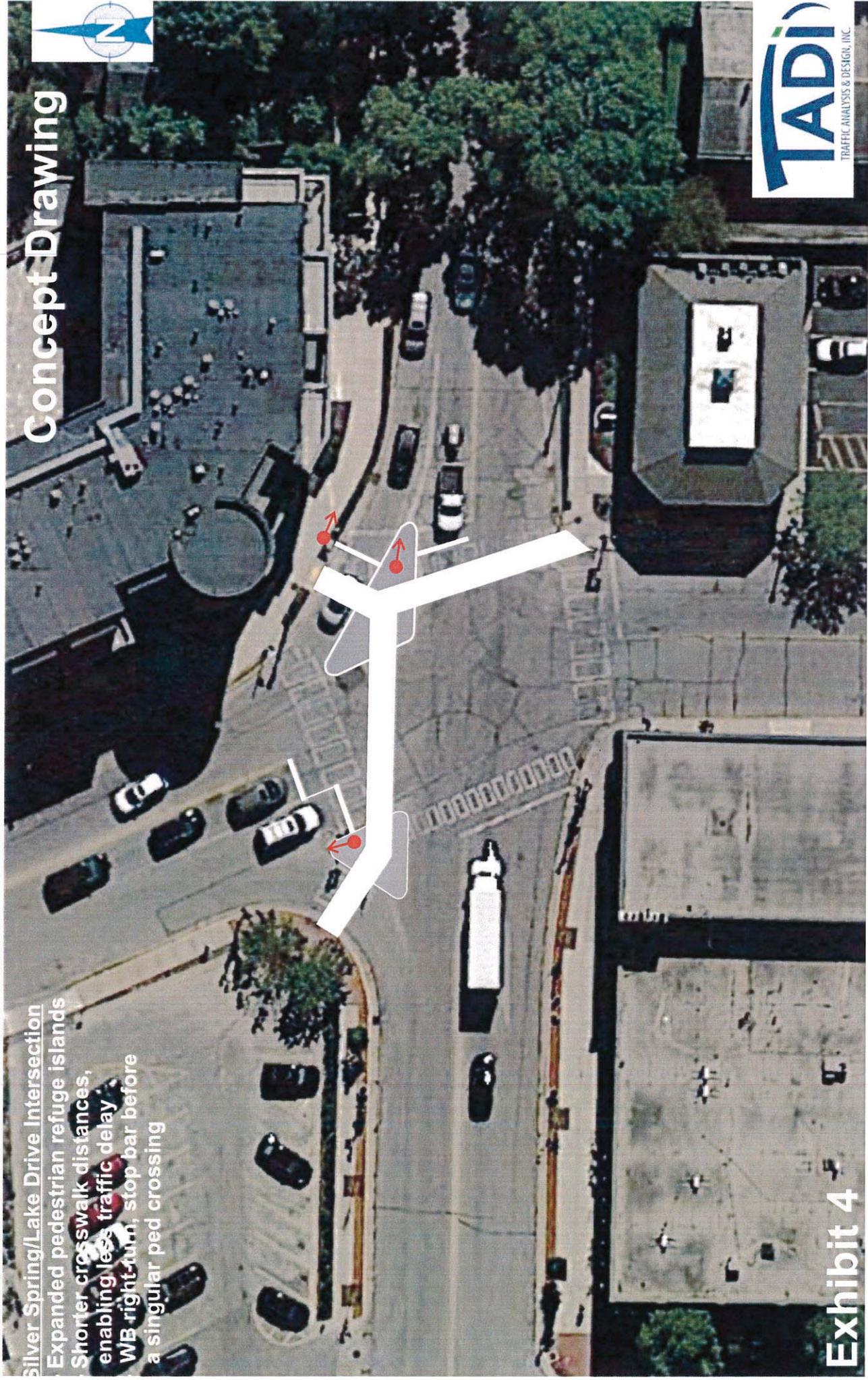
Woodburn St

Exhibit 3



Concept Drawing

Silver Spring/Lake Drive Intersection
Expanded pedestrian refuge islands
Shorter crosswalk distances,
enabling less traffic delay
WB right-turn, stop bar before
a singular ped crossing





Village of Whitefish Bay Public Works Department

155 W. Fairmount Ave • Whitefish Bay, Wisconsin 53217 • (414) 962-6690 • Fax (414) 967-1391

John Edlebeck, P.E., Director of Public Works

July 14, 2016

Memo to: Chairman Miller and Members of the Public Works Committee

From: John Edlebeck, Village of Whitefish Bay Director of Public Works *JOE*

Re: **School House Park Master Plan Approval**

The School House Park Master Plan Planning Committee was brought together by Village Manager Sheiffer in early 2016. The committee was tasked with reviewing the park and its uses and preparing a conceptual master plan to bring forth to the Public Works Committee and ultimately the Village Board for approval. The consulting engineering firm GRAEF was contracted with to assist in the process. The committee met numerous times and held a public neighborhood meeting to obtain comments on the draft plan. Following that neighborhood meeting the committee finalized the master plan and cost estimate.

The School House Park Master Plan Committee and the Public Works Department is recommending that the Public Works Committee vote to approve the attached proposed School House Park Master Plan dated July 1, 2016. Upon Public Works Committee approval the plan will be forwarded to the Village Board.



PASS-THROUGH ARBOR STRUCTURES AT NORTH GARDENS



NATURAL STONE



CLAY BRICK

NORTH GARDENS ACCENT PAVING ALTERNATIVES



DONOR PAVERS



STABILIZED CRUSHED STONE



STAMPED, COLORED CONCRETE



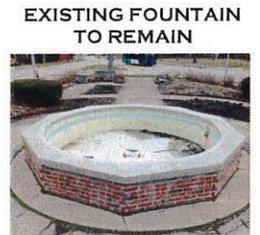
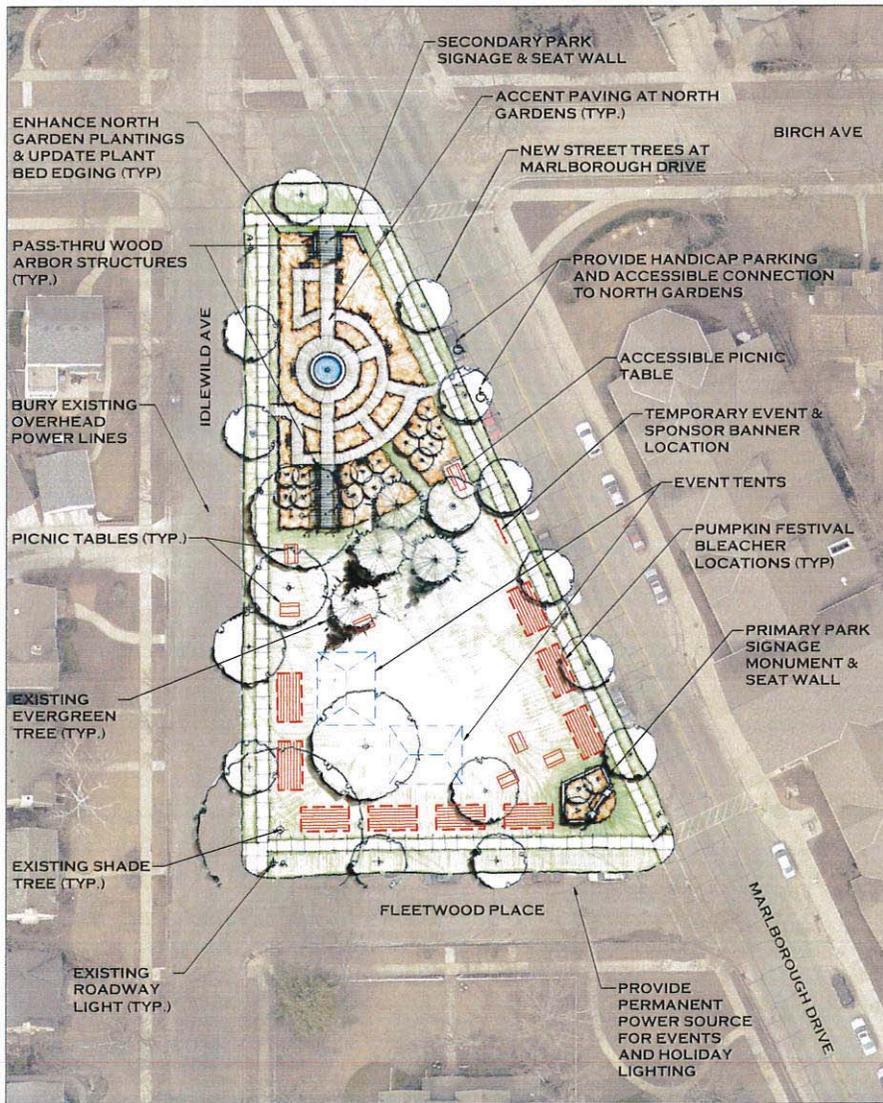
NORTH GARDENS PLANT BED EDGING



PARK FURNISHINGS WITH WOOD SLATS



EXISTING FURNITURE AT SILVER SPRING DRIVE



EXISTING FOUNTAIN TO REMAIN



TEMPORARY EVENT ELEMENTS



ADJACENT PUBLIC LIBRARY



SCHOOLHOUSE PARK CONCEPTUAL MASTER PLAN

VILLAGE OF WHITEFISH BAY, WISCONSIN

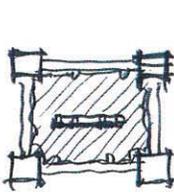
SCALE - 1" = 20' - 0"



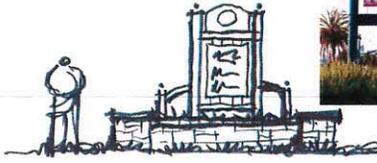
JULY 01, 2016

ALTERNATIVE PARK SIGNAGE STUDIES

PLAN VIEW



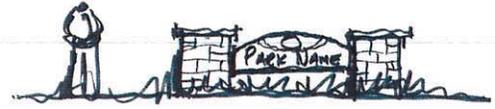
EXISTING VILLAGE SIGN WALL



ALTERNATIVE A - METAL SIGNAGE INSIDE RAISED PLANTER



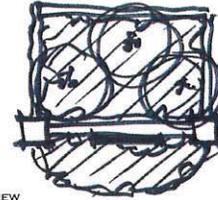
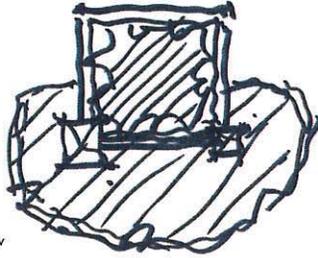
ALTERNATIVE B - METAL SIGNAGE (STAND-ALONE)



ALTERNATIVE C - STONE COLUMNS



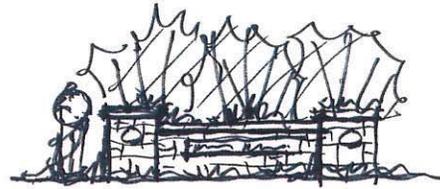
PLAN VIEW



PLAN VIEW

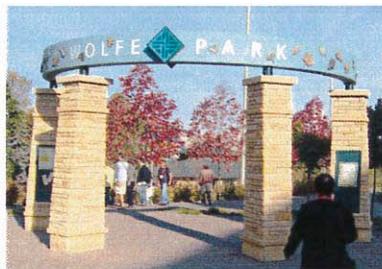


ALTERNATIVE D - VARIED COLUMN HEIGHTS



ALTERNATIVE E - STONE WALL & COLUMNS

RECOMMENDED PARK SIGNAGE ALTERNATIVES



ELEVATION - PRIMARY PARK SIGNAGE



ELEVATION - SECONDARY PARK SIGNAGE AT NORTH GARDENS

Schoolhouse Park

PRELIMINARY ESTIMATE OF PROBABLE CONSTRUCTION COSTS

July 1, 2016



BASE BID ITEM	UNITS	QUAN.	UNIT PRICE	TOTAL
SITE PREPARATION & DEMOLITION				
Tree Removal	EA	2	\$500.00	\$1,000.00
Bury Overhead Utility Lines	LS	1	\$50,000.00	\$50,000.00
Asphalt Removal	SF	1,830	\$2.00	\$3,660.00
			Subtotal	\$104,660.00
HARDSCAPE IMPROVEMENTS				
Unit Pavers, Sand Set Over Concrete Base	SF	1,830	\$18.00	\$32,940.00
Aluminum Edging - 8" wide, Black	LF	1,066	\$4.25	\$4,530.50
Benches	EA	10	\$2,500.00	\$25,000.00
Trash & Recycling Receptacles	EA	3	\$1,250.00	\$3,750.00
			Subtotal	\$66,220.50
SOFTSCAPE IMPROVEMENTS				
Accent plant beds (shrubs, perennials, ornamental grasses, mulch & soil amendments)	SF	2,204	\$4.00	\$8,816.00
Shade trees	EA	8	\$400.00	\$3,200.00
Ornamental trees	EA	19	\$350.00	\$6,650.00
			Subtotal	\$18,666.00
NORTH PARK SIGNAGE FEATURE				
Stone Veneer Seat Wall - 2' and 3' ht. with Footings	SFF	112	\$200.00	\$22,400.00
Precast Concrete Signage Panel	EA	1	\$2,000.00	\$2,000.00
Arbor Framing - 8' x 10', Walpole Mfg.	LS	1	\$10,000.00	\$10,000.00
			Subtotal	\$34,400.00
SOUTH PARK SIGNAGE FEATURE				
Stone Veneer Columns and Decorative Metal Sign	LS	1	\$22,000.00	\$22,000.00
Precast Concrete Signage Panel	EA	1	\$2,000.00	\$2,000.00
Stone Veneer Seat Wall - 2' and 3' ht. with Footings	SFF	172	\$200.00	\$34,400.00
			Subtotal	\$58,400.00
GARDEN ARBOR STRUCTURES (2 TOTAL)				
Arbor Framing - 8'W x 24'L	LS	1	\$16,500.00	\$16,500.00
Arbor Footings	EA	8	\$500.00	\$4,000.00
			Subtotal	\$20,500.00
SITE UTILITIES				
Signage Uplighting	EA	3	\$400.00	\$1,200.00
Decorative Lighting at Arbor Structures	EA	12	\$400.00	\$4,800.00
Lighting Control Cabinet and base	EA	1	\$1,600.00	\$1,600.00
Electrical Service Meter	LS	1	\$1,000.00	\$1,000.00
Electrical Conduit (Underground) - 3#10 in 1" PVC	LF	350	\$7.00	\$2,450.00
Electrical Conduit (Above Ground) - 3#10 3/4" Rigid Metallic	LF	65	\$17.75	\$1,153.75
Electrical Conduit (Receptacles) - 3#8 in 1" PVC	LF	675	\$7.50	\$5,062.50
Power Receptacles	EA	5	\$100.00	\$500.00
Power Distribution Box at Pavilion	EA	1	\$3,500.00	\$3,500.00
Electrical Handhole	EA	3	\$500.00	\$1,500.00
			Subtotal	\$22,766.25
			Total Cost	\$325,612.75
			10% Contingency	\$32,561.28
			GRAND TOTAL	\$358,174.03



Village of Whitefish Bay Public Works Department

155 W. Fairmount Ave • Whitefish Bay, Wisconsin 53217 • (414) 962-6690 • Fax (414) 967-1391

John Edlebeck, P.E., Director of Public Works

July 15, 2016

Memo to: Chairman Miller and Members of the Public Works Committee

From: John Edlebeck, Village of Whitefish Bay Director of Public Works

Re: **2016 Sanitary Sewer Improvement Project**
Revised Alignment Consideration

As a part of the design engineering process for the above project, I and Mustafa Emir met twice with representatives from MMSD to better understand both the past history as well as current condition of sanitary sewer service in the Fairmount Avenue area of this project. What we learned was that in 2010 a local village 8" diameter sanitary sewer main was abandoned along Fairmount Avenue with all of the existing tributary sanitary flows routed into an existing 21" diameter parallel Fairmount Avenue MMSD MIS interceptor sanitary sewer. It was thought at that time that the existing 21" MIS sanitary sewer pipe was underutilized and would be able to accommodate this additional flow. This transfer of sanitary sewer flow and sanitary sewer main abandonment proved to provide insufficient pipe capacity in the MIS causing ongoing home sanitary sewer floor drain basement backups in this geographically low area of the village.

Prior to our meetings with MMSD, both a Lancaster Avenue route to the north and a Woodruff Avenue south route were designed as a part of this project to provide needed relief for these ongoing basement backups. Following information received at those two MMSD meetings, an alternative route has been identified for the Fairmount / Woodruff sanitary sewer service area (see attached map). This revised route collects the sanitary sewer flow in the same area on Fairmount Avenue between Marlborough Drive and Woodruff Avenue as the original design. It then aligns a new sanitary sewer main down Fairmount Avenue to the west transmitting the flow directly to the existing large 36" diameter sanitary sewer main at Diversey Avenue and Fairmount Avenue.

The sanitary sewer computer flow model analysis for this new route actually identifies better results for homes in the susceptible basement backup area with this new alignment compared to the original design. In addition, the alternate construction route disturbs fewer roadways and residents. It is anticipated that the costs for this revised route would be equal to or less than the original alignment. To minimize disturbance to the residents in this area, bore and jack as well as micro-tunneling options will be pursued in addition to the traditional open trench installation method. It is anticipated that winter season construction may aid in obtaining favorable pricing for these alternate installation methods.

The Public Works Department is recommending that the Public Works Committee vote to approve this revised alignment. Upon Public Works Committee approval the plan will then be forwarded to the Village Board.

**2016 Sanitary Sewer Improvement Project Schedule
Village of Whitefish Bay, Wisconsin**

Submit Palisades Lift Station Plans to DNR	6/30/2016
DNR Liftstation Approval	7/15/2016
WE Energies Review for Liftstation Gas & Electric	Week of July 18, 2016
WE Energies Approval by	9/19/2016
Send Fairmount Sewer Plans to MMSD / DNR (Review Up to 60 Days)	7/20/2016
MMSD and DNR Approval by	9/19/2016
Advertising (No. 1)	8/18/2016
Advertising (No. 2)	8/25/2016
Bid Opening	9/8/2016
PW Committee	9/15/2016
Village Board Meeting	9/19/2016
Begin Construction	10/3/2016
Substantial Completion	4/28/2017
Final Completion	5/26/2017

Date: 7-15-16 JE