

Minnehaha Creek Watershed District

REQUEST FOR BOARD ACTION

MEETING DATE: September 24, 2015

TITLE: Approval of Cost Share Funding for City of Mound 2015 Street Reconstruction Project

RESOLUTION NUMBER: 15-082

PREPARED BY: Brett Eidem

E-MAIL: beidem@minnehahacreek.org

TELEPHONE: 952-641-4523

REVIEWED BY: Administrator Counsel Program Mgr. (Name): _____
 Board Committee Engineer Other

WORKSHOP ACTION:

<input type="checkbox"/> Advance to Board mtg. Consent Agenda.	<input type="checkbox"/> Advance to Board meeting for discussion prior to action.
<input type="checkbox"/> Refer to a future workshop (date): _____	<input type="checkbox"/> Refer to taskforce or committee (date): _____
<input type="checkbox"/> Return to staff for additional work.	<input type="checkbox"/> No further action requested.
<input checked="" type="checkbox"/> Other (specify): <u>Order project and authorize administrator to enter agreement</u>	

PURPOSE or ACTION REQUESTED:

1. Order City of Mound 2015 Street Reconstruction cost-share project
2. Authorize administrator to enter an agreement providing funding of 50% of the documented cost of the project, not to exceed \$32,100 from the Cost Share Fund, for the installation and maintenance of stormwater BMPs and installation of educational signage in the 2015 Mound Street Reconstruction Project.

PROJECT/PROGRAM LOCATION: Grandview and Tuxedo Boulevards in Mound (map attached)

PROJECT TIMELINE: Construction in Fall 2015

PROJECT/PROGRAM COST:

Fund name and number:	Cost Share Grant Program, 4005
2015 budget:	\$832,000.00
Amount approved in 2015 to date:	\$700,258
Requested amount of funding:	\$32,100

PRIOR LID FUNDING FOR STREET RECONSTRUCTION PROJECTS IN THE CITY OF MOUND:

2011:	\$30,787 in MCWD Funding for integration of sump catch basins
2012:	\$35,369 in MCWD Funding for integration of sump catch basins
2013:	\$14,419 in MCWD Funding for construction of a Hydro-Dynamic Separator

SUMMARY:

The City of Mound is requesting grant funding from the Minnehaha Creek Watershed District (MCWD) for the storm water quality improvements that are being proposed as part of the 2015 Street, Utility, and Retaining Wall Improvements Projects in Mound. These improvements include:

- Installation of sump storm manholes
- Installation of storm water quality devices (preserver dissipaters & skimmers)

The project is located in fully developed residential neighborhoods around Dutch Lake, Phelps Bay, and Cooks Bay on Lake Minnetonka. The runoff flows overland to catch basins located in the roadways and is conveyed directly to surface waters with no treatment.

The project consists of reconstructing streets and various underground utilities on Grandview and Tuxedo Boulevards in the Dutch Lake and Island Park areas, respectively (see attached Figure 1 – Project Area Map for site location). The project will include partial curb and gutter replacement and storm sewer improvements. The project will not increase impervious area, and thus, storm water quality improvements are not required under MCWD or MPCA rules. However, the City of Mound has identified this project as an opportunity to improve water quality and is proposing to exceed MCWD requirements by installing nine storm water quality treatment devices and 5 new sump manholes. The runoff from the project area drains to Lake Minnetonka and ultimately to Minnehaha Creek. Therefore, these improvements will directly impact the water quality within the watershed and help to meet the Total Maximum Daily Load (TMDL) goals that will be established.

WATER QUALITY IMPROVEMENT:

MH #	Drainage Area (Acres)	Yearly Influent TSS (lbs)	Yearly TSS Removed (lbs)	Yearly Removal Efficiency %	Total Phosphorus Removal %
105	14.7	1142	787	68.8%	12.3%
201	8.6	1123	632	56.3%	2.4%
208	5.6	719	485	67.5%	10.9%
214	2.9	396	329	83.1%	19.7%
221	4.4	466	374	80.3%	18.7%

EDUCATION/DEMONSTRATION BENEFITS:

Educational signs will be developed and installed at each location to inform the public about the storm water treatment provided. The signs will describe the purpose of the BMPs, include a diagram depicting how the BMPs remove pollutants from storm water runoff, and recognize the partnership between MCWD and the City of Mound in making these improvements. Also, brochures containing the same information will be developed and made available at City Hall.

APPROVAL PROCESS:

The proposal was reviewed by the Citizen Advisory Committee (CAC) at its August 12, 2015 meeting, and the CAC supported staff’s recommendation to fund the project in an amount not to exceed \$32,100. The Board reviewed the project at its September 10, 2015 workshop and authorized staff to notice and conduct a public hearing for the proposed cost-share funding for the project.

In accordance with Minnesota Statutes section 103B.251 and Board resolution 13-023, the District must conduct a public hearing for a cost share project with construction elements that require a municipality to undertake long-term maintenance. The project has been ~~appropriately~~ noticed, and the public hearing for the project will be held at the September 24, 2015 Board Meeting.

STAFF RECOMMENDATION:

Staff recommends that the Board authorize funding of 50% of the documented cost of the project, not to exceed \$32,100 from the Cost Share Fund, for the installation of stormwater BMPs and educational signage in the 2015 Mound Street Reconstruction Project.

Attachments:

1. Project Plans
2. Project Budget
3. Draft Resolution from City of Mound
4. Cost Share Evaluation Scoresheet

RESOLUTION

RESOLUTION NUMBER: 15-082

TITLE: **Approval of Cost Share Funding for City of Mound 2015 Street Reconstruction Project**

WHEREAS, the Minnehaha Creek Watershed District (MCWD) has adopted a watershed management plan (WMP) in accordance with Minnesota Statutes section 103B.231;

WHEREAS, the Low Impact Development Grant Program was established by the MCWD in 2009 to partner with local communities and private developers to offset the increased costs of exceeding regulatory requirements; and

WHEREAS, the Low Impact Development and Cost Share Grant Programs have been combined for 2015, and funds are available in the 2015 budget; and

WHEREAS, the City of Mound has applied for cost share funding for the implementation of stormwater best management practices (BMPs) as part of a road reconstruction project in the Dutch Lake and Island Park areas(Project); and

WHEREAS, MCWD staff has reviewed the proposal and finds it to be consistent with the goals of the Cost Share Grant Program and recommends funding 50 percent of the costs for construction of the BMPs and educational signage, not to exceed a total amount of \$32,100 from the Cost Share Program fund; and

WHEREAS, the grant proposal was reviewed by the Citizen Advisory Committee (CAC) on August 12, 2015, and the CAC made a recommendation to the Board to approve the proposal and provide funding in the amount requested; and

WHEREAS, in accordance with Minnesota Statutes section 103B.251 and MCWD Board Resolution 13-023, the District must conduct a public hearing for cost-share projects with construction elements that require a municipality to undertake long term maintenance for; and

WHEREAS, in accordance with Minnesota Statutes §103B.251, subdivision 3, the MCWD held a **duly** noticed public hearing on approval of funding for the Project on September 24, 2015, at which time all interested parties had the opportunity to speak for and against the Project; and

WHEREAS, no comments from the public were offered;

WHEREAS, the Board of Managers finds that the Project will be conducive to public health and promote the general welfare, and is in compliance with Minnesota Statutes §§103B.205 to 103B.255 and the MCWD's WMP adopted pursuant to §103B.231;

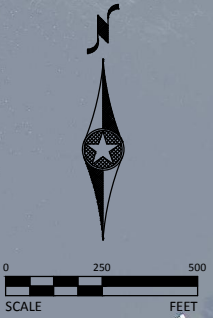
NOW, THEREFORE, BE IT RESOLVED, that the MCWD Board of Managers, pursuant to Minnesota Statutes section 103B.251 and the comprehensive water resources management plan, orders the Project, with a total cost-share contribution from the MCWD of not-to-exceed \$32,100, and;

NOW, THEREFORE BE IT FURTHER RESOLVED that the MCWD Board of Managers authorizes the administrator to execute, on advice of counsel, a grant agreement with the City of Mound providing reimbursement of 50 percent of the documented costs for construction of stormwater BMPs and requiring maintenance of the Project in perpetuity, as well as educational signage for the Project, not to exceed \$32,100, from the Cost Share Grant Program fund.

Resolution Number 15-082 was moved by Manager _____, seconded by Manager _____.
Motion to adopt the resolution ___ ayes, ___ nays, ___ abstentions. Date: _____.

_____ Date: _____
Secretary

LEGEND
 WATERSHED



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 CHASKA, MN RAMSEY, MN MAPLEWOOD, MN BAXTER, MN ROCHESTER, MN
 AMES, IA SPENCER, IA DES MOINES, IA FARGO, ND

CITY OF MOUND
 2015 STREET, UTILITY, & RETAINING WALL IMPROVEMENTS
 PROJECT AREA MAP

LEGEND

- WATERSHED
- ➔ DRAINAGE DIRECTION
- EXISTING STORM PIPE
- ⊙ ▨ EXISTING STORM STRUCTURES
- PROPOSED STORM PIPE
- ■ PROPOSED STORM STRUCTURES

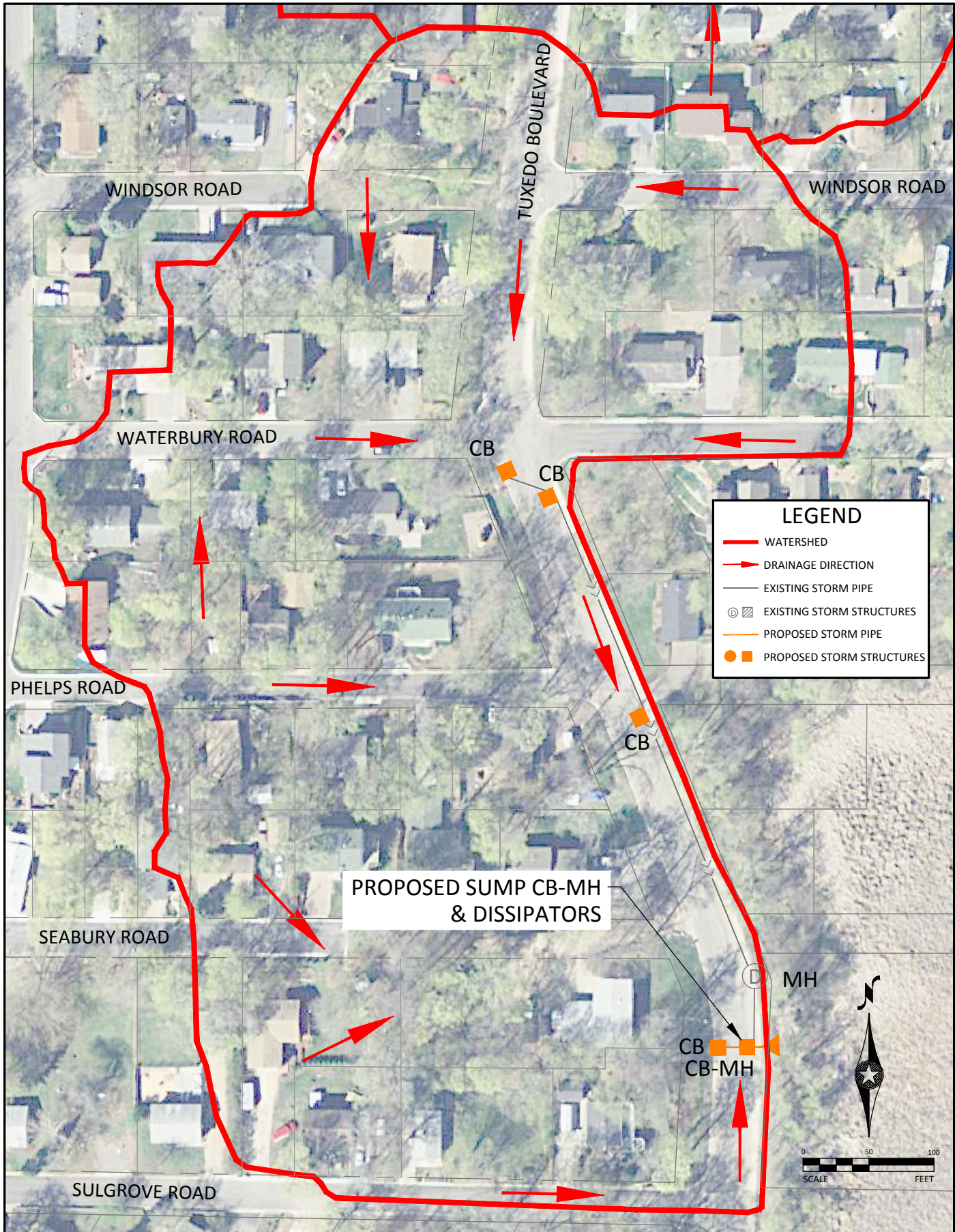
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**PROPOSED SUMP
CB-MH & DISSIPATOR**



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 Consulting Engineers & Surveyors
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 CHASKA, MN RAMSEY, MN MAPLEWOOD, MN BAXTER, MN ROCHESTER, MN
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CITY OF MOUND
 2015 STREET, UTILITY, & RETAINING WALL IMPROVEMENTS
 GRANDVIEW CB-MH #105
 JUNE, 2015



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CITY OF MOUND

2015 STREET, UTILITY, & RETAINING WALL IMPROVEMENTS
 TUXEDO BOULEVARD CB-MH #200

JUNE, 2015

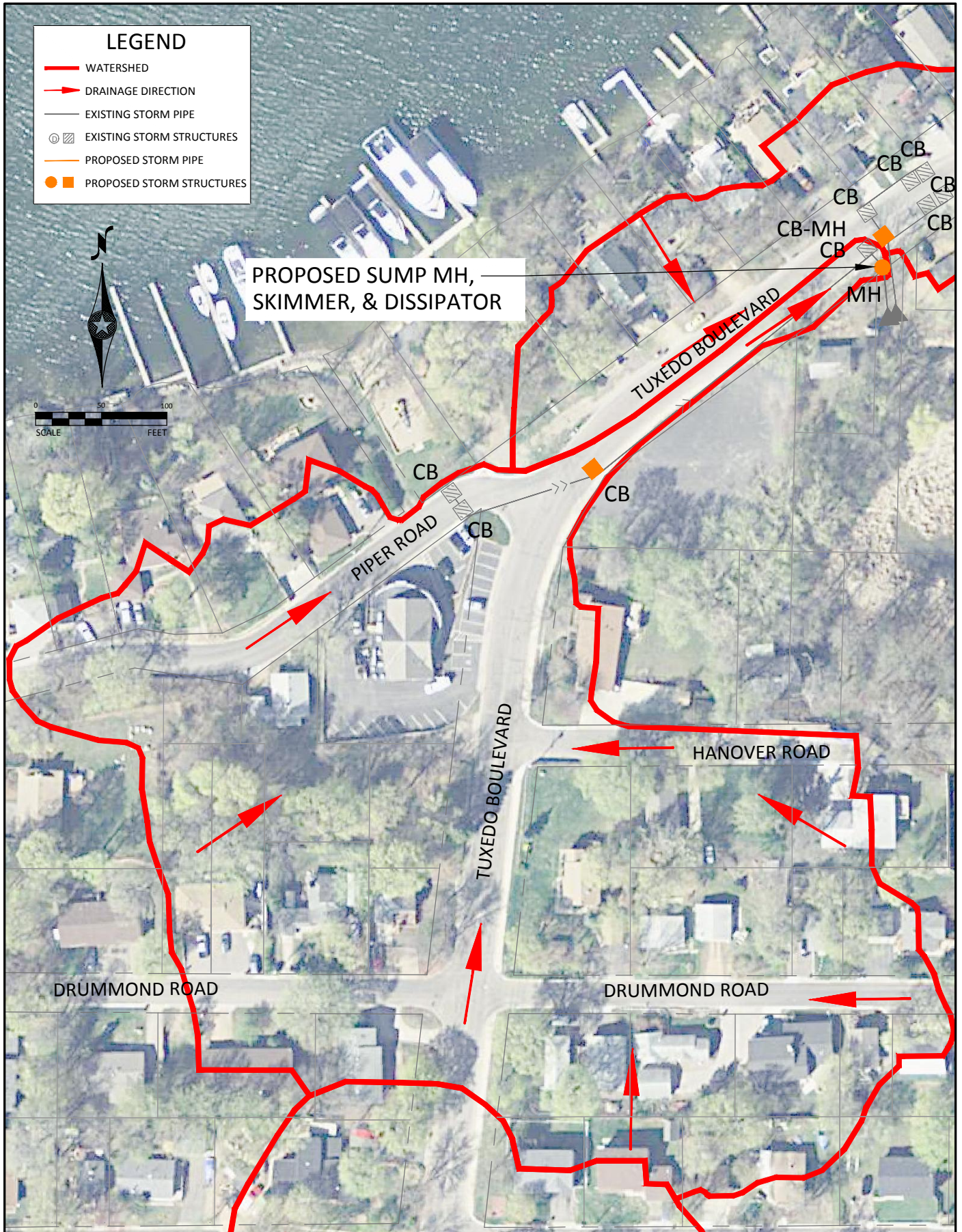
FIGURE NO. 3

LEGEND

-  WATERSHED
-  DRAINAGE DIRECTION
-  EXISTING STORM PIPE
-  EXISTING STORM STRUCTURES
-  PROPOSED STORM PIPE
-  PROPOSED STORM STRUCTURES



**PROPOSED SUMP MH,
SKIMMER, & DISSIPATOR**



DRUMMOND ROAD

DRUMMOND ROAD

PIPER ROAD

TUXEDO BOULEVARD

HANOVER ROAD







TUXEDO BOULEVARD

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CITY OF MOUND
 2015 STREET, UTILITY, & RETAINING WALL IMPROVEMENTS
 TUXEDO BOULEVARD MH #208
 JUNE, 2015

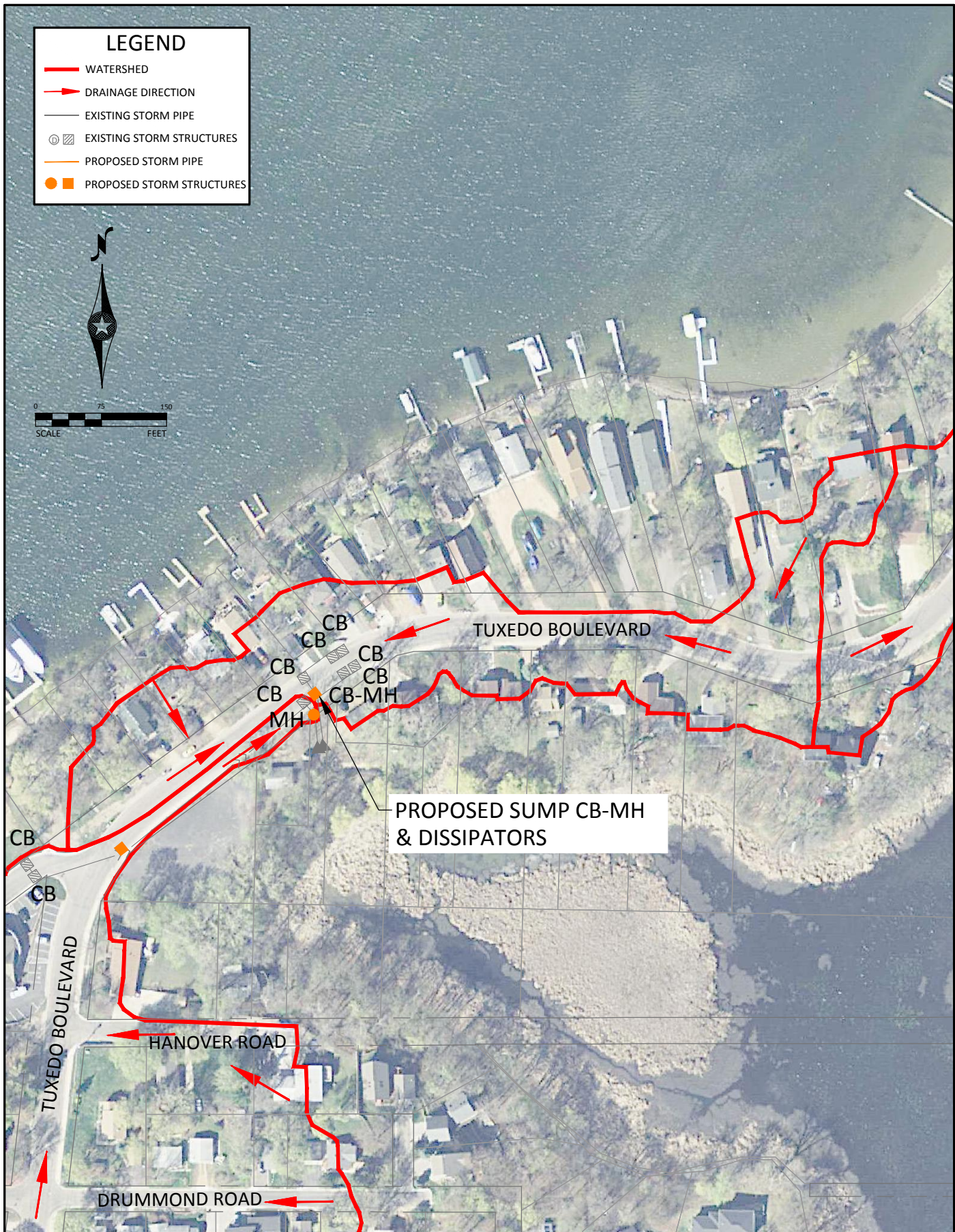
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LEGEND

-  WATERSHED
-  DRAINAGE DIRECTION
-  EXISTING STORM PIPE
-  EXISTING STORM STRUCTURES
-  PROPOSED STORM PIPE
-  PROPOSED STORM STRUCTURES



SCALE FEET









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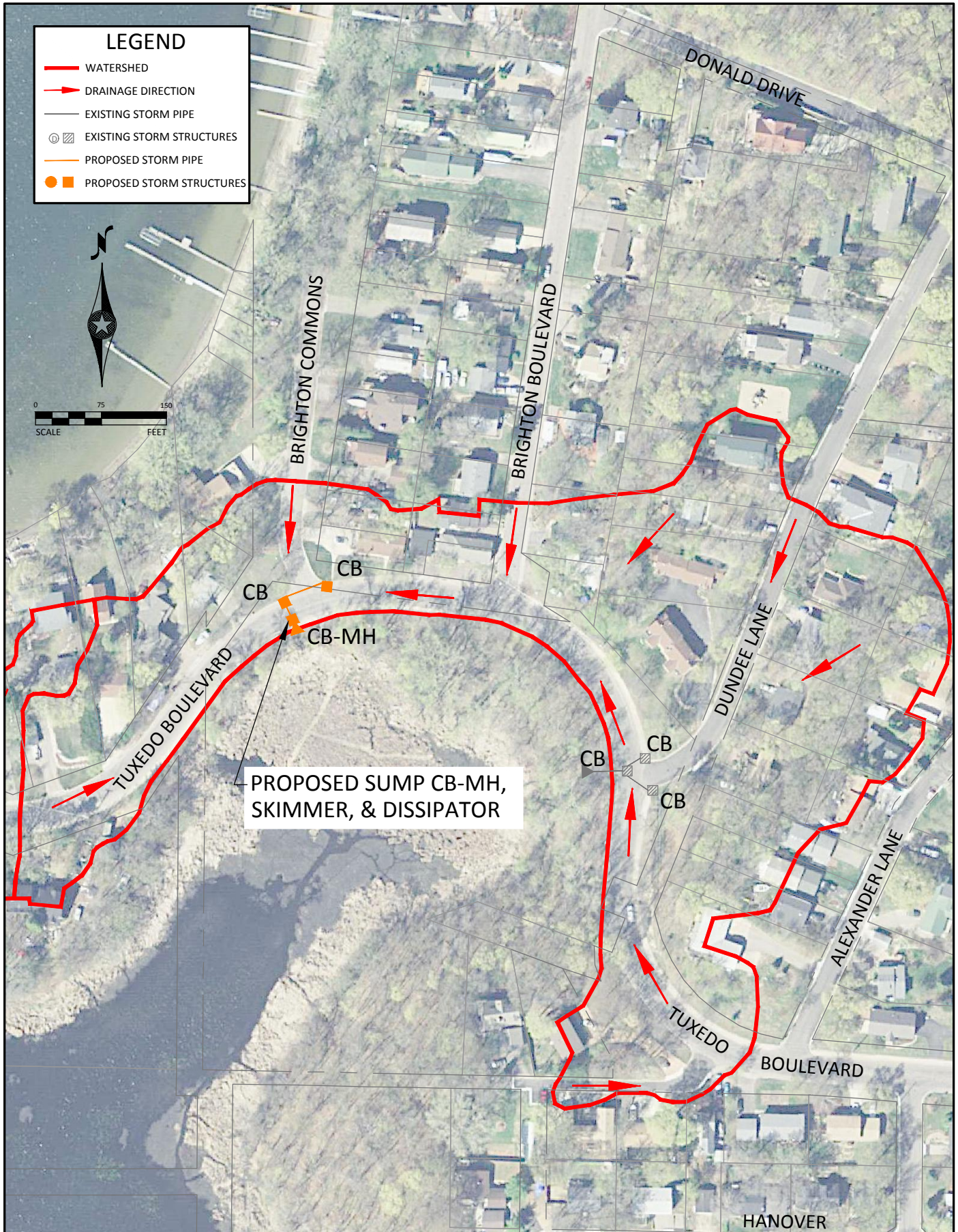
CITY OF MOUND
 2015 STREET, UTILITY, & RETAINING WALL IMPROVEMENTS
 TUXEDO BOULEVARD CB-MH #214

LEGEND

-  WATERSHED
-  DRAINAGE DIRECTION
-  EXISTING STORM PIPE
-  EXISTING STORM STRUCTURES
-  PROPOSED STORM PIPE
-  PROPOSED STORM STRUCTURES



SCALE FEET



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CITY OF MOUND

2015 STREET, UTILITY, & RETAINING WALL IMPROVEMENTS
 TUXEDO BOULEVARD CB-MH #221

JUNE, 2015

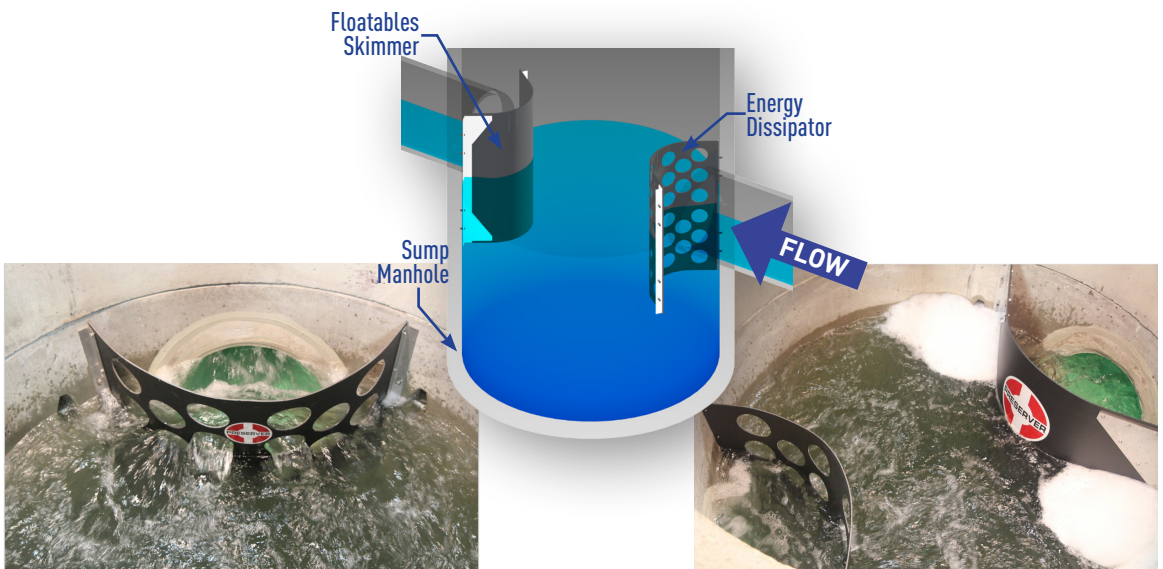
FIGURE NO. 6

STORMWATER QUALITY IMPROVEMENT STRUCTURE

How This Works:

This structure is a stormwater treatment manhole that implements a Best Management Practice (BMP) which aids in preventing sediment, oil, trash, and other pollutants from reaching our area lakes and streams.

- The Preserver™ Energy Dissipator utilizes a baffled surface to control flow dynamics in the manhole. The Dissipator improves pollutant removals during small frequent storms, and prevents the washout of previously captured pollutants during large infrequent storms.
- The Preserver™ Skimmer forces water to exit the manhole below the water surface, effectively trapping floating pollutants such as trash and hydrocarbons.
- The compact design of the Skimmer and Dissipator allow easy access for annual cleaning of the captured pollutants. The products can be used individually or together as a BMP on a sump manhole.
- Additional information, including videos, can be found at www.MomentumEnv.com.



Funding Provided By:



ESTIMATE FOR STORM WATER TREATMENT IMPROVEMENTS

2015 STREET, UTILITY, & RETAINING WALL IMPROVEMENTS

CITY OF MOUND, MINNESOTA

CITY PROJECT NO. PW-15-01 & PW-15-02

BMI PROJECT NO. C12.108886 & C12.108887

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ITEM NO.	BID ITEM	EST. QUANTITY	UNIT	UNIT PRICE	AMOUNT
GENERAL					
1	MOBILIZATION & TRAFFIC CONTROL	1.0	LUMP SUM	\$6,000.00	\$6,000.00
REMOVALS					
2	REMOVE CONCRETE CURB & GUTTER	80	LIN FT	\$5.00	\$400.00
3	REMOVE CONCRETE SIDEWALK	270	SQ FT	\$1.00	\$270.00
4	REMOVE BITUMINOUS PAVEMENT	80	SQ YD	\$3.00	\$240.00
5	REMOVE DRAINAGE STRUCTURE	5	EACH	\$200.00	\$1,000.00
6	CLEARING & GRUBBING	1	LUMP SUM	\$450.00	\$450.00
GENERAL CONSTRUCTION					
7	FURNISH & INSTALL WATERSHED MANAGEMENT DEMONSTRATION SIGN	5	EACH	\$650.00	\$3,250.00
8	AGGREGATE BASE (CV) (P) CLASS 5, 100% CRUSHED	38	CU YD	\$30.00	\$1,140.00
9	CONCRETE CURB & GUTTER DESIGN B618	80	LIN FT	\$12.00	\$960.00
10	4" CONCRETE WALK	80	SQ FT	\$4.00	\$320.00
11	TYPE SP 12.5 NON WEARING COURSE MIX (3,B)	10	TON	\$67.00	\$670.00
12	TYPE SP 9.5 WEARING COURSE MIX (4,B) 1.5" THICK	80	SQ YD	\$8.00	\$640.00
STORM SEWER					
13	4" PERF HDPE UNDERDRAIN (INC. GEOFABRIC AND ROCK)	54	LIN FT	\$7.00	\$378.00
14	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48"-4022	7.0	LIN FT	\$270.00	\$1,898.10
15	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60"-4022	21.1	LIN FT	\$300.00	\$6,315.00
16	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60"-4020	7.8	LIN FT	\$275.00	\$2,147.75
17	12" PRESERVER DISSIPATOR	1	EACH	\$1,500.00	\$1,500.00
18	15" PRESERVER DISSIPATOR	3	EACH	\$2,000.00	\$6,000.00
19	21" PRESERVER DISSIPATOR	3	EACH	\$2,700.00	\$8,100.00
20	12" PRESERVER SKIMMER	1	EACH	\$1,300.00	\$1,300.00
21	21" PRESERVER SKIMMER	1	EACH	\$2,000.00	\$2,000.00
22	CASTING ASSEMBLY R-1642	1	EACH	\$500.00	\$500.00
23	CASTING ASSEMBLY R-3067-L	4	EACH	\$750.00	\$3,000.00
RESTORATION, EROSION CONTROL					
24	SILT FENCE, PREASSEMBLED	100	LIN FT	\$7.00	\$700.00
25	SEED MIXTURE 25-131	256	SY	\$2.50	\$640.00
SUB TOTAL - DRAINAGE IMPROVEMENTS					\$49,818.85
CONTINGENCIES (10%)					\$4,981.89
TOTAL - DRAINAGE IMPROVEMENTS					\$54,800.74
DESIGN, ADMINISTRATION, SURVEY, AND INSPECTION					
1	DESIGN AND ADMINISTRATION (5% OF CONSTRUCTION)	1	TOTAL	\$5,700.00	\$5,700.00
2	SURVEY	6	HOUR	\$150.00	\$900.00
3	INSPECTION	28	HOUR	\$100.00	\$2,800.00
TOTAL - DESIGN, ADMINISTRATION, SURVEY, AND INSPECTION					\$9,400.00
TOTAL ESTIMATED AMOUNT:					\$64,200.74



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September 17, 2015

Honorable Mayor and Members of the City Council
City of Mound
2415 Wilshire Boulevard
Mound, MN 55364

RE: 2015 Street and Utility Reconstruction Project – Grandview Blvd. & Tuxedo Blvd.
City Project Nos. PW-15-01, PW-15-02
Request to Minnehaha Creek Watershed District for Grant Approval

Dear Mayor and Members of the Council:

As part of the 2011, 2012 and 2013 Street reconstruction projects, staff submitted grant requests for storm water quality improvements that were part of the storm drainage improvements within each of these projects. The MCWD approved these grant requests (50% cost share) in the amounts of \$30,787 (2011), \$35,369 (2012) and \$14,420 (2013). We did not apply for a cost share grant for the 2014 Street reconstruction project, Three Points Boulevard, as the existing topography and storm sewer system was not conducive to adding water quality improvement devices to the existing storm sewer system.

After submitting a cost share grant request to the MCWD Cost Share Grant Administrator on June 22, 2015, for the water quality improvement items included in the 2015 Street reconstruction project, we were informed that the MCWD Board is requesting a City Resolution supporting the grant request for water quality improvements. The City's grant request, in the amount of \$32,100, is scheduled for a public hearing at the MCWD Board meeting on September 24, 2015. Staff will attend this meeting to address any concerns or questions of the Board.

Attached is a proposed resolution requesting the MCWD Board to approve the cost share grant request submitted on June 22, 2015. This grant request report is attached and referenced in the resolution.

Sincerely,
Bolton & Menk, Inc.

Daniel L. Faulkner, P.E.
City Engineer

CITY OF MOUND
RESOLUTION NO. 15-__

**RESOLUTION REQUESTING MINNEHAHA CREEK WATERSHED DISTRICT
APPROVAL OF COST SHARE GRANT PROGRAM (3130) REQUEST FOR STORM
WATER QUALITY IMPROVEMENTS INCLUDED IN THE CITY OF MOUND'S 2015
STREET, UTILITY AND RETAINING WALL IMPROVEMENT PROJECT –
GRANDVIEW BOULEVARD AND TUXEDO BOULEVARD**

WHEREAS, the approved Plans and Specifications for the 2015 Street, Utility and Retaining Wall Improvement Project – Grandview Boulevard and Tuxedo Boulevard (Improvement Project) includes storm sewer design elements added for the purpose of improving the quality of storm water entering the respective receiving water bodies; and

WHEREAS, a contract was awarded to Geislinger and Sons, Inc. on April 14, 2015 for the Improvement Project; and

WHEREAS, a request for Cost Share Grant Program approval was submitted to the Minnehaha Creek Watershed District's Cost Share Grant Administrator on June 22, 2015; and

WHEREAS, the request is for a 50 percent cost share (\$32,100.37) of the total Project Cost, \$64,200.74, of the water quality improvement items within Geislinger and Sons, Inc. contract; and

WHEREAS, the City understands and agrees that long term maintenance of the storm water quality improvements will be done on at least an annual basis;

NOW, THEREFORE BE IT RESOLVED by the City Council of the City of Mound, Minnesota, that the City hereby requests Minnehaha Creek Watershed District Board approval of the grant request submitted on June 22, 2015 to the Cost Share Grant Administrator and attached hereto for reference.

Adopted by the City Council this 22nd day of September 2015.

Mark Wegscheid, Mayor

ATTEST: _____
Catherine Pausche, City Clerk

**Cost Share Grant Evaluation Form
Green Infrastructure Grant**

Name of Reviewer: Brett Eidem
Date Reviewed: 8-4-2015

Applicant: City of Mound
Project: 2015 Street Reconstruction Stormwater Management
Amount Requested: \$32,100.37

Green Infrastructure Grant: must result in greater natural resource improvements.

Organization Type: City		
Are the Goals of Project Clearly Outlined? Yes, incorporating SW Mgmt into 2015 Road Recon with educational signage		
Past History: Has the applicant applied before? Yes, approved funding in 2011 (\$30,787) and in 2012 (\$35,369) for similar projects.		
<i>Project Design (70pts)</i>		
Notes: Proposing 5 sump catch basin manholes to filter out pollutants of street runoff. A total of approx. 2,607 lbs of TSS removed through the install of these sumps. Very cost effective solution in areas where above ground BMPs are not a very feasible with tight site constraints. Budget detail and Maintenance schedule outlined in application.	45 /45	Water Resource Improvement to MCWD
	5 /5	Innovative Design
	5 /5	Budget Detail
	10 /15	Maintenance Plan
Project Design Total:		65 /70
<i>Education & Outreach (15 pts)</i>		
Notes: City is proposing to post educational signage at the location of each sump to engage the public on water resource protection, as well as information at city hall.	5 /10	Outreach Techniques
	0 /5	Visibility of Demonstration
Education and Outreach Total:		5 /15
<i>Water Resource Prioritization (15 pts)</i>		
Notes: This cost share approach has been a way for the District to stay responsive to the city over the years without constructing a capital project. Staff sees opportunities for future partnerships in the city, and this project will lay the foundation for future programming in the city of Mound.	10 /15	Alignment with District Priorities
Water Resource Prioritization Total:		10 /15
Total:		80 /100
100 -90pts 75% Funding	The proposal is among the very best; it exceeds expectations in many areas, was very clearly presented, is an excellent match for this funding, and should be funded. Potential for up to 75% funding *project will need Board approval for funding requests over \$5,000 and a public hearing if funding request is over \$50,000	
89-75 pts 50% Funding	The proposal is generally strong and is a good match for this funding. If enough funding is available, this proposal should be funded. A few concerns might need to be addressed. Potential for up to 50% Funding *project will need Board approval for funding requests over \$5,000 and a public hearing if funding request is over \$50,000	
74-50 pts Needs Further Development	The proposal has some strengths but also several problem areas. Areas of concern would need to be addressed before further consideration of funding for this proposal.	
49-0 pts Does Not Qualify	This proposal is quite weak in many of the important areas. Concerns preclude recommendation of funding for this proposal.	
Reporting	<ul style="list-style-type: none"> - Inspection Report - Opportunities for monitoring - Description and location of outreach techniques used - Number of people engaged and educated on the project Has the project and outreach initiated other efforts on improving water quality and awareness 	

Comments and Notes: A simple but strategic approach to water quality improvement. Staff recommends funding this project now to strengthen a partnership with the city, and further develop greater opportunities in the future.

Cost Share 2015 Detailed Evaluation Criteria
Green Infrastructure Grant Evaluation Criteria

Project Design – 70 points

- Focus on water quality improvements
 - o Cost benefit of project compared to past funded projects through the Low Impact Development program
 - o Entire site design, with matrix of pollutant removals for overall cost
 - o Reduces flow, promotes infiltration, reduces erosion
 - o Creates habitat and promotes pollinator plants
- Innovation- something we haven't funded before, innovative use of stormwater BMPs, first of its kind in the region/state, multi-functionality, re-use system
- Budget- Detailed cost estimate of project (construction and outreach efforts)
- Maintenance- having a detailed maintenance plan and recommended schedule

Education and outreach - 15 Points

- Monitoring benefits of project overtime
- Visibility of demonstration and education opportunities to engage the public
- Educational signage
- Events hosted to promote project

Water Resource Prioritization- 15 Points

- Proximity to Focal Geography of MCWD Initiatives
 - o How can the project complement other District initiatives/future projects
- Proximity to an impaired waterbody
 - o How does project address impairments through BMPs
 - o Prioritize impairments within subwatershed
- Protection of high value resource

Reporting- when applicable, required before any phased reimbursement

- o Inspection Report
- o Opportunities for monitoring
- o Description of outreach techniques used and their location
- o Number of people educated and engaged on the project
- o Has the project and outreach initiated other efforts on improving water quality and awareness