Minnehaha Creek Watershed District

REQUEST FOR BOARD ACTION

MEETING DATE: April 28, 2016	ITEM TYPE:	⊠Action	□Consent	□ Discussion	
TITLE: Authorization of Cost Share Funding – 2016 Spring Non-Homeowner Projects					
RESOLUTION NUMBER: 16-042					
PREPARED BY: Brett Eidem					
E-MAIL: beidem@minnehahacreek.org					
TELEPHONE: (952) 641-4523					
REVIEWED BY: ☐ Administrator ☐ Coun☐ Board Committee ☐ Engin		am Mgr: Tel	ly Mamayek		
WORKSHOP ACTION:					
☐ Advance to Board mtg. Consent Agenda	☐ Advance to B	oard mtg. Co	onsent Agenda	with changes	
☐ Advance to Board mtg. for more discussion	☐ Refer to a fut	ure worksho	p (date):		
☐ Return to staff for additional work	☐ Refer to task	force or com	mittee (date): _		
☐ No further action requested.	☐ Advance to 0	CAC mtg. for	recommendati	on	

PURPOSE or ACTION REQUESTED:

- 1) At the conclusion of a required public hearing and in consideration of any comments received, order cost-share project funding for projects in Edina and Plymouth;
- 2) Authorize funding of 50 percent of the documented costs of each of the seven projects listed in the attached document, not to exceed \$120,407, contingent on a signed grant and maintenance agreement that includes a project design plan that is mutually agreed upon by the grant recipients and District staff and signage requirements.
- 3) Authorize the Administrator to execute and sign a Cost Share funding and maintenance agreement with each of the property owners listed in the attached document.

PROJECT/PROGRAM LOCATION:

District Wide

PROJECT TIMELINE:

Summer/Fall 2016

PROJECT/PROGRAM COST:

Fund name and number: Cost Share Grant Program (4005)

Current grant budget: \$600,000 Amount approved in 2016 to date: \$7,208.65

Requested amount of funding: 50 percent of the documented costs of each of the seven projects listed in

the attached document, not to exceed a total of \$120,407.

SUMMARY:

The new cost share grant application schedule the Board approved in January provides a spring and a fall deadline for non-homeowner projects and a June deadline for homeowner projects. This allows us to compare like-projects to each other, and prioritize funding on the projects that have the greatest value. By the spring non-homeowner deadline on March 18, 2016, staff received 8 cost share applications. The 3 cities, 3 churches, one school and one non-profit organization that applied requested a total of \$750,000 in funding.

The eight applications underwent a thorough review process before advancing to the CAC. They were reviewed by cost share staff, an inter-departmental team including planning, project and land management, permitting and education staff, the District engineer and a CAC subcommittee. Following that review one of the applicants (City of Mound) agreed to defer its project until the fall funding round, so it can further develop its proposal. On April 13, 2016, the CAC recommended funding for six of the projects as presented, and changed the recommendation on 1 church project.

In the attached memo, you will find a summary of each of the proposals and their respective funding recommendations. An evaluation scoresheet and plan for each project are also attached. Staff has not recommended more than 50% funding for any of the projects under consideration. This is due to two factors: 1) None of the projects reached the 90/100 point threshold on our evaluation scoresheet, which would have been a historical staff recommendation for 75% funding 2) The review process identified the most cost effective BMPs within larger projects, and scaled down the recommendation to fund the BMPs that can be installed now and make the biggest impact. This reserves funding for the second round of non-homeowner projects in the fall, and allows the potential for future phasing of more BMPs.

Two projects were applied for by cities within the watershed. In accordance with state law and adopted Board policy (Resolution 13-023), a public hearing is required for certain cost share projects involving capital construction. The Edina and Plymouth projects described in the memo involve the construction elements of a project that require each municipality to undertake long term maintenance responsibilities, which triggers the public hearing requirement. Prior to the consideration of funding these two projects (along with the other five), there will be a public hearing and presentation for the two city projects, per the Board adopted public hearing procedure.

EDUCATION VALUE:

Staff sees the installation of stormwater best management practices as a powerful avenue to provide citizen engagement and advocacy opportunities where cities and/or its citizens become participants in and advocates for stormwater management and clean water. Staff also sees them as a way to educate the public on actions that can be taken on an individual citizen scale to improve stormwater management, enhance natural resources and green infrastructure, expand the knowledge base of water resources management, and provide educational opportunities through demonstrative projects within the watershed. Through partnering on these projects, we are gaining stormwater management and investment from private property owners on land that we otherwise would not be able to implement projects on alone.

The following is a summary of each project's education and outreach plans.

City of Edina:

- Information will be given to residents in the neighborhood on the project
- Master Water Stewards will engage community members through targeted outreach
- Residents will be empowered to keep their own runoff on their property and infiltrate it through
- Tree trench BMPs will be a visible demonstration of stormwater management
- Educational signage will explain what it is and how it is helping the neighborhood

City of Plymouth:

- Right of way raingardens will be very visible to those in the neighborhood
- Educational signage off bike path next to raingarden
- Education materials distributed to neighborhood
- West Metro Water Alliance (WMWA) newsletter article

Annunciation Church:

- Church has K-8 school attached, and is already involved in outdoor classroom activities
- Will develop water related curriculum and use these BMPs as demonstration/example
- An eagle scout is organizing volunteers to construct with Metro Blooms oversight
- Proposed educational signage, and messaging through social media, church and school channels
- Annual Sept. event where messaging can be organized and delivered, explaining project to community
- Organizer of application is a block leader for an alleyway project in Diamond Lake

Bethel Evangelical Lutheran Church:

- Already have a large community garden and is the meeting site for Bancroft Neighborhood Association that so those that use the site will be further engaged about stormwater now, through tours and signage
- This site is about ten blocks from Lake Hiawatha and golf course, and could be tied to future raingarden tours organized by Master Water Stewards, as we have a number of raingardens in this neighborhood, this project being the largest and most cost effective example

Field Community School:

- School has developed curriculum to educate students within the school on stormwater runoff (funded by a Cynthia Krieg grant)
- Raingardens will be a visible demonstration of stormwater management between the front entrance the school, the playground and parking lot
- Educational signage will explain raingardens and their benefits
- Strong partnership with other schools and neighborhood groups that share ballfields and facilities
- Many letters of support from the school community and its partners who want to promote this behavior change in the neighborhood and city

Metro Blooms:

- Heavy community engagement with neighborhood meetings, block meetings, block leaders engaging neighbors with help of Metro Blooms for education and design
- The behavior change being created by homeowners willing to contribute \$500-\$5,000 for stormwater retrofits to create a green corridor in their alley
- Alleys are all within a few blocks of either Minnehaha Creek or Diamond Lake, and they complement the Nokomis alleyways project and blooming alleys in general, providing additional promotion opportunities

Third Church of Christ the Scientist:

- Church is already in partnership with nearby schools on classroom curriculum related to the project, including monitoring wells in the raingardens for students to track capture and infiltration
- Highly visible location 5 blocks from Lake Harriet. Signage, tours will be given to help educate the public
- A case study will be developed by Earth Wizards for educational materials for the church to hand out
- Networking with affiliate 1st church of Christ (Boston) where they will try to get stormwater management attention

For all projects, permanent educational signage would be installed near the project sites on the grantee's property indicating the contribution of funds from the District and also directing people to the MCWD website.

Cost Share Staff, in coordination with the Education and Communications departments, will utilize the projects in outreach to highlight the Cost Share program and the work it's helping fund in the community.

WATER QUALITY IMPROVEMENT:

Staff has analyzed all of the proposed projects to identify the water quality improvement of each of these projects. These numbers were discussed with staff, the District Engineer, and CAC.

The following table shows the pollutant reductions we can see from each of the projects:

Project	Vol. Reduction (cf)	TSS Reduction (lbs)	Total P Reduction (lbs)	Project Cost	Funding Recommendation
City of Edina	Х	Х	Х	\$113,000	\$10,000.00
City of Plymouth	13,969	152	0.74	\$25,500	\$12,750.00
Annunciation Church	35,000	545	0.6	\$25,426	\$12,713.00
Bethel Evangelical Church	164,000	836	2	\$100,000	\$26,760.00
Field Community School	1,700	100	0.5	\$27,700	\$13,850.00
MB- Diamond Lake -Lynnhurst Alleyv	77,000	400	1.6	\$101,000	\$10,000.00
3rd Church of Christ	90,000	454	1.5	\$322,000	\$34,334.00
Totals:	381.669	2487	6.94	\$714.626	\$120,407.00

Total number of projects approved: 7

Total number of BMPs installed: up to 46
Total cost for construction of these BMPs: \$714,626
Total MCWD cost share funding contribution: \$120,407
Annual Volume reduction: 381,669 cf
Annual Total Suspended Solids reduction: 2,487 lbs.
Annual Phosphorus reduction: 6.94 Lbs.

STAFF RECOMMENDATION

The individual applicants listed in the attached document have applied for funding of 50 percent of the eligible costs for their projects from the Cost Share grant fund, contingent on a signed grant and maintenance agreement that includes a landscape design plan that is mutually agreed upon by the Cost Share recipients and District staff and provision for signage.

Staff recommends funding the projects listed in the attached document at the above amount.

ATTACHMENTS:

- 1. Authorization of Cost Share Funding 2016 Spring Non-Homeowner Projects
- 2. Cost Share 2016 Spring Non-Homeowner Project Plans and Evaluation Scoresheets

^{*} This water quality of the City of Edina's project is not quantifiable due to the fact the subwatershed drains to a landlocked wetland.

RESOLUTION

RESOLUTION NUMBER: 16-042

TITLE: Authorization of Cost Share Funding – 2016 Spring Non-Homeowner Projects

- WHEREAS, the Cost Share Program was established by the MCWD to provide funding to property owners to design and install best management practices that will provide educational value as well as reduce the volume and increase the quality of stormwater flowing offsite; and
- WHEREAS, each of the outlined applicants has submitted proposals for grant funding for the construction of stormwater best management practices,
- WHEREAS, the MCWD 2016 budget includes funds for the Cost Share Program which has \$592,791.35 currently available; and
- WHEREAS, the above proposals were reviewed by the Citizen Advisory Committee (CAC) on April 13, 2016, and the CAC has recommended approving the proposals and 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 and the City of Edina and City of Plymouth must undertake long-term maintenance for their respective projects as described in the materials attached to the resolution; and
- WHEREAS, in accordance with Minnesota Statutes §103B.251, subdivision 3, the MCWD held a noticed public hearing on approval of funding for the Edina and Plymouth projects on April 28, 2016, 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 Comprehensive Water Resources Management Plan adopted pursuant to §103B.231;
- WHEREAS, a summary of approved 2016 Spring Non-Homeowner Cost Share projects and funding amounts was included in the April 28th, 2016 Board of Managers meeting packet information; and
- WHEREAS, MCWD staff has reviewed the proposals and the CAC's comments and recommendations, and finds the proposals to be consistent with the goals of the Cost Share Program and recommends funding of 50 percent of the documented costs of each of the seven projects listed in the attached document, not to exceed \$120,407, contingent on a signed grant and maintenance agreement that includes a project design plan that is mutually agreed upon by the grant recipients and District staff and signage requirements, and
- NOW, THEREFORE, BE IT RESOLVED that the Minnehaha Creek Watershed District Board of Managers that pursuant to Minnesota Statutes section 103B.251 and the MCWD plan, the MCWD Board of Managers orders the Edina cost-share project with a total estimated cost-share contribution from MCWD of \$10,000 and the Plymouth cost-share project with a total estimated cost-share contribution from the MCWD of \$12,750, and;

NOW, THEREFORE, BE IT FURTHER RESOLVED, that the MCWD 50 percent of the documented costs of each of the seve City of Edina City of Plymouth Annunciation Church Bethel Evangelical Church Field Community School Metro Blooms-Diamond Lake-Lynnhurst Alleyv Third Church of Christ	en projects as follows: \$10,000 \$12,750 \$12,713 \$26,760 \$13,850
contingent on a signed grant and maintenance agreement that include mutually agreed upon by the grant recipients and District	
BE IT FINALLY RESOLVED, that the MCWD Board of Managers aut consent of counsel, to sign Cost Share funding and main property owners as designated herein.	
Resolution Number 16-042 was moved by Manager Motion to adopt the resolution ayes, nays,abstentions.	, seconded by Manager
motion to adopt the resolution ayes, hays,abstentions.	 _ Date:
Secretary	

MEMORANDUM

DATE: April 25th, 2016

TO: MCWD Board of Managers

FROM: Brett Eidem, MCWD Cost Share Grant Administrator

RE: Authorization of Cost Share Funding – 2016 Spring Non-

Homeowner Projects

The MCWD administers a Cost Share program to provide incentive for interested parties to construct projects that will improve water quality. Part of the process in approving projects to receive funding is to have the applications reviewed by the Citizens Advisory Committee (CAC).

BUDGET UPDATE

Cost Share 2016 Budget: \$600,000

Amount Approved to date in 2016: \$7,208.65

April Cost Share Requested Amount: \$120,407

COST SHARE APPICATIONS

The new cost share grant application schedule the Board approved in January provides a spring and a fall deadline for non-homeowner projects and a June deadline for homeowner projects. This allows us to compare like-projects to each other, and prioritize funding on the projects that have the greatest value. We ended up with 8 cost share applications: 3 cities, 3 churches, one school, and one non-profit organization. The total funding request was over \$750,000! The newly adopted program schedule includes a thorough review process this year, that included a cost share staff evaluation of each project, an assembled staff team review and funding recommendations (made of planning, project and land management, permitting and education staff), a District engineer review and recommendations, and a CAC Cost Share subcommittee discussion of the projects, where we made some slight adjustments to the staff recommendations. The CAC reviewed and recommended funding 6 projects as was recommended by others, and changed the recommendation on 1 church project. In this memo, you will find a summary of each of the proposals received to be considered for Board funding approval, and the current funding recommendation. You will also find attached the packet materials with each project evaluation scoresheet and the main project plans. Staff has not recommended more than 50% funding for any of the projects under consideration. This is due to two factors: 1) None of the projects reached the 90/100 point threshold on our evaluation scoresheet, which would have been a historical staff recommendation for 75% funding 2) The review process identified the most cost effective BMPs within larger projects, and scaled down the recommendation to fund the

BMPs that can be installed now and make the biggest impact. This reserves funding for the second round of non-homeowner projects in the fall, and allows the potential for future phasing of more BMPs.

Project #1- City of Edina- Street Reconstruction, Edina

The City of Edina has applied for funding assistance to implement stormwater BMPs along various streets with their Morningside and White Oaks neighborhood street reconstruction. These BMPs would alleviate flooding to the land locked wetland that the street runoff drains to. This drainage does not directly drain to any other downstream waterbodies (though there may be a groundwater connection to the creek), so the water quality improvement is not consistent with the BMPs the District helped fund with the Arden Park neighborhood street reconstruction. So through staff and District engineer review, this project has mostly demonstrative qualities but not a major benefit to the overall watershed. Because the project has demonstration value and the proposed outreach to residents through Master Water Stewards (an initiative that has already been implemented and we have seen success from in Arden Park), staff concludes that there is District value to providing funding to this project.

The total cost for the construction of tree trenches and other BMPs within the Morningside and White Oaks neighborhood street reconstruction is \$113,000. CAC endorses staff and CAC subcommittee funding recommendation of 50% funding, not to exceed \$10,000.

Project #2- City of Plymouth- Street Reconstruction, Plymouth

The City is looking to install 2 rain gardens in a street reconstruction project area to help improve the water quality in this neighborhood. The street runoff drains to a wetland, which discharges to the south and the water ultimately drains to Gleason Lake, which is impaired for excessive nutrients. This project will help to reduce the amount of nutrients getting into the drainage system and ultimately Gleason Lake. The city has identified two locations that have an opportunity to capture a lot of polluted street runoff just before the storm drains, and are also in highly visible areas such as right off a bike path, where they have proposed educational signage. There will also be resident education for the homeowners on the street that the raingardens will be installed. The city is proposing to enhance these raingardens with iron filing sand filters, to further absorb and eliminate more phosphorus than an average raingarden. Although these raingardens are designed to be deeper than your average residential raingarden, they are still only capturing a small amount of the entire drainage area. But unlike Edina's project, this runoff does eventually get to Gleason Lake, which is impaired for nutrients. We also haven't cost share funded on a project in Plymouth for a while, and staff finds this to be a cost effective project for pollutant reduction and education within the community.

The total project cost for construction of the two raingardens is \$25,500. CAC endorses staff and CAC subcommittee 50% funding recommendation, not to exceed \$12,750.

Project #3- Annunciation Church and School- 509 W 54th St, Minneapolis

Annunciation Church and School has proposed a stormwater management plan for the entrance of their church. They are in the process of working on an entire site retrofit design, but are currently focused on this opportunity. They have a group of committed Eagle Scouts that are willing to assist in the labor of excavating the raingardens, and the church school has a strong education curriculum proposed to connect the students to the project. They are proposing to capture runoff from the roof of the church,

as well as install channel drains to divert the drop off drive into raingardens as well, capturing nearly all of the impervious runoff from this portion of the property. In total, there will be 5 raingardens and three channel drains, all in the front entrance of the church. With Metro Blooms design and oversight (channel drains will be professionally installed), and the volunteer labor, staff and the subcommittee came to the decision that this is a cost effective project in a highly visible area just blocks south of Minnehaha Creek.

The total project cost for construction of the raingardens and channel drains is \$25,426. CAC endorses staff and CAC subcommittee 50% funding recommendation, not to exceed \$12,713.

Project #4- Bethel Evangelical Lutheran Church, 4120 17th Ave S, Minneapolis

Bethel Evangelical Lutheran Church has developed an entire site design for stormwater management, to both reduce their monthly stormwater utility fee and to provide space and a model for the communities they serve and that use their facility weekly. They also have a mission to be stewards to the community and natural resources, as they are within a few blocks of Lake Hiawatha and Minnehaha Creek, providing an example for the community fit in well. Bethel is the site for the Bancroft Neighborhood Association and would partner with the neighborhood group to share best practices in stormwater management and other environmental stewardship strategies (e.g., solar garden) with thousands of surrounding neighbors. As well as their relationships with other church congregations and schools in the neighborhood. One long-term land stewardship partnership with the neighborhood is the community garden on Bethel's site, the constituent group of community gardeners will be natural partners for us in our outreach efforts related to this project. Based on the budget, and a detailed review of the church retrofit design, staff has identified the most cost effective stormwater BMPs, being a channel drain with pretreatment and a large raingarden. This is nearly half of the site's drainage, and the most polluted of the site, that can all be captured in one place. Staff and the subcommittee see this as the best opportunity, and would propose funding this BMP only, waiting on the rest of the project for future phasing. The reasoning for this is partially to be budget conscious, but also uncertainties with the details of those other garden designs, as well as the unknown of if the church can upkeep the maintenance of an entire site retrofit.

The total cost of the channel drain, pretreatment fore bay, and the raingarden is \$53,521. CAC endorses staff and CAC subcommittee 50% funding recommendation, not to exceed \$26,760.

Project #5- Field Community School, 4645 S 4th Ave, Minneapolis

Field Community School is just east of 35W and a few blocks N of Minnehaha Creek. They heard about the District and became more educated on water quality issues from visiting and learning about the Parkway Place Townhomes project that was installed last year. They have a very robust education and outreach program tied to the construction of these proposed raingardens, and have already been approved for Cynthia Krieg grant funding to implement. The Field School is a middle school, but they share their facilities, such as gym and ballfield with Hale elementary school and various neighborhood groups. They are proposing to install 4 raingardens near the parking lot and front entrance of the school, capturing nearly 100% impervious runoff. They have also proposed 2 pollinator gardens on the backside

of the building, but because these facilities are not designed to capture any more runoff than flows to the area under existing conditions, we are not considering funding those. The project is very cost effective in a highly developed area, and with its visibility and strong education and outreach programming, this was one of the strongest applications. We funded 100% of the Cynthia Krieg proposal, which was \$14,350. In the past we have avoided funding more than 75% of the total project costs that request both Cynthia Krieg and Cost Share funding. This is to ensure ownership and investment from the school.

The total project cost for the construction of the four raingardens is \$27,700. CAC endorses staff and CAC subcommittee 50% funding recommendation, not to exceed \$13,850.

Project #6 Metro Blooms- Diamond Lake and Lynnhurst Alleyways, Minneapolis

Metro Blooms is proposing to continue alleyway initiatives in a targeted approach. While they are continuing to install stormwater practices along alleys around Lake Nokomis, they started to install with a single alley in Diamond Lake in 2015. They have built awareness and interest in these neighborhoods over time, and are proposing a total of 7 more alley retrofits over the next year in Diamond Lake and Lynnhurst neighborhoods. Over the years, we have seen great value from assisting in the funding of these initiatives. The project includes multiple neighborhood meetings, with residents on the block designated as block captains that help spread interest and organize neighborhood meetings. Metro Blooms works with individual residents to best design their site to reduce their property runoff from getting to the alley, ending up in the storm sewer and into the nearby waterbody, either Diamond Lake or Minnehaha Creek. These practices include redirecting gutters, installing raingardens and permeable paver strips. For this initiative, Metro Blooms has already secured a \$50,000 Hennepin County Green Partners Grant. They have also gotten commitment from the neighborhood to cover a majority of the balance of the project cost. They are asking MCWD to assist with the final \$10,000 needed for the project. This is a great return on investment for both water quality improvement in Minneapolis, as well as reaching a broad audience on a community scale.

The total cost for the 7 alley retrofits is \$101,000. CAC endorses staff and CAC subcommittee 50% funding recommendation, not to exceed \$10,000.

Project #7 Third Church of Christ the Scientist, 4147 Xerxes Ave S, Minneapolis

Third Church is working with Earth Wizards, proposing a very unique stormwater retrofit of their site. This project has been broken into 2 phases. The first is focusing on the reconstruction of the parking lot. They are proposing to regrade the parking and retain all runoff from it onsite. In this phase they are also including permeable pavers for the main entrance drop off with educational signage out front. The second phase proposes to have a series of raingardens capture the different roof drainage areas, as well as overflow to each other. There is also a re-use cistern proposed with this phase, capturing further roof runoff. A well thought out education and outreach plan proposes monitoring wells around the site, so nearby school classes can monitor water levels and what a difference the raingardens are making. The church is off Xerxes Ave, just a few blocks west of Lake Harriet, in a fairly visible location. At this point in

time we are only focusing on and considering cost share funding for phase 1. This includes the parking lot reconstruction that will reduce imperviousness of the property by 17 percent. Under the District Stormwater Management Rule, a project disturbing more than 40 percent of a 1- to 5-acre site that reducing imperviousness of the property by 10 percent or more need not provide stormwater management BMPs.

The total phase 1 project cost is \$259,956. \$191,288 of the project budget is not eligible for funding as it is meeting our rule requirement. The remaining \$68,668 qualifies for cost share funding (remainder of parking lot BMPs above the 10% site impervious reduction). The current funding recommendation is for phase 1 of the project, the parking lot and its associated BMPs only. This does not include the phase 2, building perimeter raingardens and the cistern, which the CAC had seen value in and interest in funding as a future phase. The CAC funding recommendation is 50% of the portion of the large parking lot raingarden going above the 10% site impervious reduction, and the permeable paver section, not to exceed \$34,334.

Project	Vol. Reduction (cf)	TSS Reduction (lbs)	Total P Reduction (lbs)	CS Eval. Score/100	Project Cost	Funding Recommendation Comments
City of Edina	4,500	1270	6.9	70	\$113,000	\$10,000.00 No longer proposing pavers. No outlet for wetland. Pollution reduction is skewed.
City of Mound	X	914	0.64	65	\$60,587	X No staff funding recommendaiton. Greater opportunity in fall for different project
City of Plymouth	13,969	152	0.74	75	\$25,500	\$12,750.00 Pollutant numbers are not accurate, could be double pollutant removals with iron filings
Annunciation Church	35,000	545	0.6	85	\$25,426	\$12,713.00 50% funding of cost estimate received
Bethel Evangelical Church	164,000	836	2	65	\$100,000	\$26,760.00 Recommending funding only channel drain and raingarden 7, 50%, NTE \$26,760
Field Community School	1,700	100	0.5	85	\$27,700	\$13,850.00 \$27,700 is just RG budget, CynthiaKrieg funding 100% of curriculum. NTE total 75%
MB- Diamond Lake -Lynnhurst Alley	v 77,000	400	1.6	80	\$101,000	\$10,000.00 \$10k is all they requested funding for
3rd Church of Christ	90,000	454	1.5	80	\$322,000	\$34,334.00 Recommended funding phase 1 parking lot reconstruction (only above SW rule)

Total Recommended Funding:

\$120,407.00

https://www.google.com/maps/d/edit?authuser=0&hl=en&mid=z4krbUUog2VA.khJ81H24XoT0

Cost Share Grant Evaluation Form Green Infrastructure Grant

Applicant: City of Edina

Project: Morningside Street Reconstruction

Total Project Budget: \$150,000 Requested Funding: \$75,000

Green Infrastructure Grant: project must result in greater water quality/natural resource improvements.

Organization Type:	City				
Are the Goals of Pro	pject Clearly Outlined? Yes, minimize localize	ed flooding and i	mprove water quality draining to Manage 1 wetland		
through demonstrat	ive practices.				
Past History: Has the	e applicant applied before? Yes, 2015 receive	ved \$89,000 in co	ost share funding, and District has strong focus in		
Edina					
Project Design (70pt	s)				
Notes: Project proposes removal of up to 7 lbs of P and		20 /45	Water Resource Improvement to MCWD		
	wetland by an inch. Only thing is this	5 /5	Innovative Design		
	e the wetland. May eventually get to the	5 /5	Budget Detail		
	dwater. Intent is to minimize wetland	15 /15	Maintenance Plan		
flooding onto streets	S. Project Design Total:	45 /			
5-1ti 0 Out	• •	43 /	70		
Education & Outread					
	t is to minimize flooding, but to do so in a	10 /10	Outreach Techniques		
•	nd to show demonstration practices to follow up with education and outreach	5 /5	Visibility of Demonstration		
_	wer residents to retain runoff on each of				
their properties as w					
then properties as w	Education and Outreach Total:	15 /1			
Water Resource Prio		-,	<u>-</u>		
	focus and ongoing partnership with	10 /15	Alignment with District Priorities		
	pursue stormwater management	10/15	Alignment with District Profities		
	Although this project is not as aligned				
	have as great of a water quality				
_	Arden Park project was.				
	1 1				
'	Water Resource Prioritization Total:	10 /1	.5		
	Total:	70 /100			
Funding Approval	Potential for up to 75% funding				
Process	- project will need Board approval	for funding requ	ests over \$5,000		
	- project will require a public hearing if it is over \$50,000, or if the project is funding equipment				
	requires long term maintenance by a public entity				
	 project will be reviewed and compared to other like projects that met the application deadline 				
	- project will be reviewed, and funding will be prioritized by a staff team, our Citizen's Advisory				
	Committee, and lastly the MCWD	Board of Manag	gers		
Reporting	- Inspection Report				
	 Opportunities for monitoring 				
	- Description and location of outre	•			
	1		project Has the project and outreach initiated other		
	efforts on improving water qualit	y and awareness			

Name of Reviewer: Brett Eidem

Date Reviewed: 3/27/2016

Comments and Notes:

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
 - 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

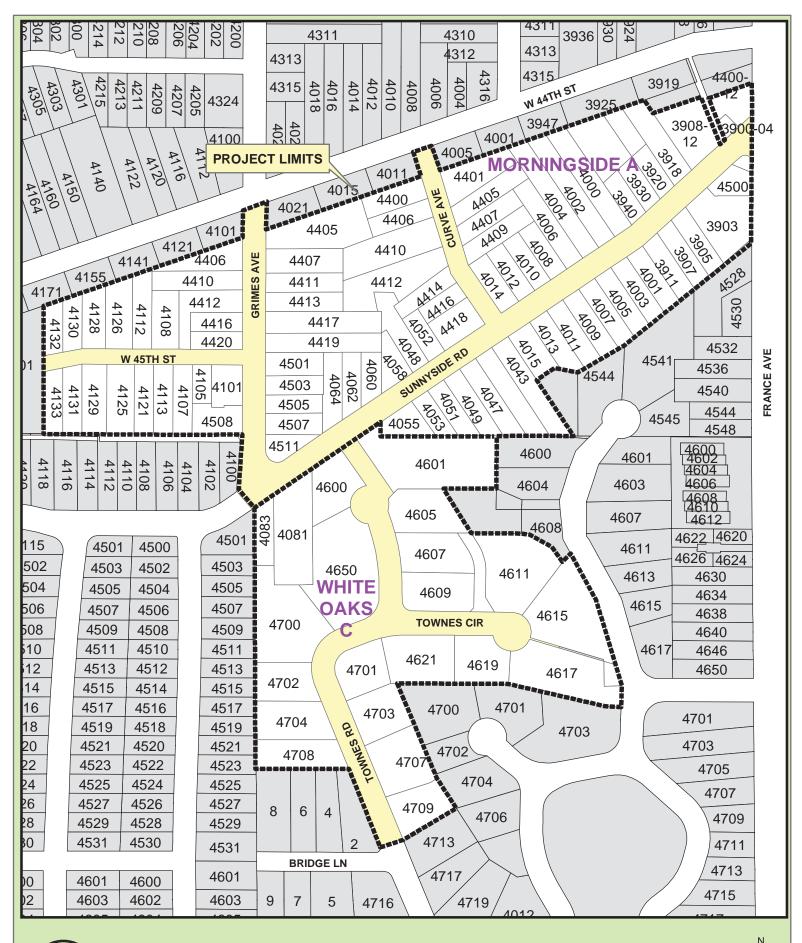
- Monitoring benefits of project overtime
- Visibility of demonstration and education opportunities to engage the public
- Educational signage
- Events hosted to promote project

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

- Inspection Report
- 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



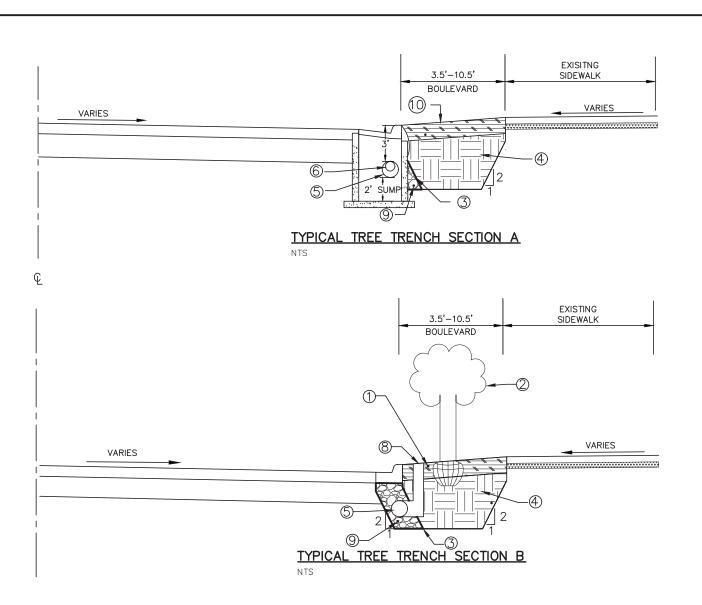


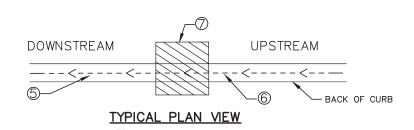
2016 Project Area

Morningside A & White Oaks C Neighborhood Roadway Reconstruction

Improvement No: BA-422

Engineering Dept October, 2013





KEYED NOTES

- 12" ORGANIC TOPSOIL BORROW (EDINA MODIFIED) WITH SEED MIXTURE 25-151
- ② DECIDUOUS TREE 2.5" B&B. SEE SUMMARY TABLE LOWER RIGHT THIS SHEET
- MNDOT CAT. 6 STRAW/COCONUT 3S EROSION CONTROL BLANKET
- 4 24"-36" OF 2" CRUSHED ROCK WASHED WITH ORGANIC TOPSOIL BORROW (EDINA MODIFIED)
- (5) 12" HDPE PERF. DRAIN PIPE, LAID FLAT
- 6 6 SOLID PVC SUMP DRAIN PIPE
- TYPE "BB" CATCH BASIN SPECIAL (W/SUMP) W/ NEENAH R-3067V GRATE
- 8 6" SUMP DRAIN CLEAN OUT
- 9 2" CRUSHED WASHED ROCK
- 6" ORGANIC TOPSOIL BORROW (EDINA MODIFIED) WITH SEED MIXTURE

	TREE TRENCH LOCATION AND DIMENSION SUMMARY					
ADDRESS	STREET	LENGTH (FT)	WIDTH (FT)	SQ. FT.	INLET TYPE	
4411	GRIMES AVE.	15	10	150	CATCH BASIN INLET	
4419	GRIMES AVE.	15	10	150	CLEAN OUT	
4507	GRIMES AVE.	20	10	200	CATCH BASIN INLET	
4511	GRIMES AVE.	20	10	200	CLEAN OUT	
4013	SUNNYSIDE RD.	25	6.5	162.5	CATCH BASIN INLET	
4047-1	SUNNYSIDE RD.	18	8	144	CLEAN OUT	
4047-2	SUNNYSIDE RD.	18	8	144	CATCH BASIN INLET	
4053	SUNNYSIDE RD.	30	8	240	CATCH BASIN INLET	
4601-1	SUNNYSIDE RD.	16	8	128	CLEAN OUT	
4601-2	SUNNYSIDE RD.	16	8	128	CATCH BASIN INLET	
4058	SUNNYSIDE RD.	22	5.5	121	CATCH BASIN INLET	
4060	SUNNYSIDE RD.	22	5.5	121	CLEAN OUT	
4511-1	SUNNYSIDE RD.	25	5	125	CLEAN OUT	
4511-2	SUNNYSIDE RD.	25	5	125	CATCH BASIN INLET	
4418-1	CURVE AVE.	20	3.5	70	CLEAN OUT	
4418-2	CURVE AVE.	20	3.5	70	CATCH BASIN INLET	
TOTAL				2,279		

	I	I		SECTION A
	TREE TRENCH LENGTH			
	SECTION B		TREE TRENCH LENGTH	_
─ TO STORM SEWER S	STRUCTURE)		
TO STORM SEWER .	SINOCIONE -	r ⁶ r ₁₀		<u>_</u>
				/
.				7 /
	donne		ARARA	2' SUMP
<u>\</u> _6	<u>_</u> 5	12" x 6" — HDPE REDUCER	5	
	SECTION B	TYPICAL TREE TRENCH	H PROFILE	SECTION A

TREE TRENCH PLANTING SUMMARY					
ADDRESS	STREET	PLANT	QUANTITY	SIZE	ROOT
4411	GRIMES AVE.	NORTHERN PIN OAK	1	2.5"	B&B
4419	GRIMES AVE.	PRAIRIE EXPEDITION AMERICAN ELM	1	2.5"	B&B
4507	GRIMES AVE.	SWAMP WHITE OAK	1	2.5"	B&B
4511	GRIMES AVE.	SWAMP WHITE OAK	1	2.5"	B&B
4013	SUNNYSIDE RD.	SWAMP WHITE OAK	1	2.5"	B&B
4047-1	SUNNYSIDE RD.	SWAMP WHITE OAK	1	2.5"	B&B
4047-2	SUNNYSIDE RD.	SWAMP WHITE OAK	1	2.5"	B&B
4053	SUNNYSIDE RD.	PRAIRIE EXPEDITION AMERICAN ELM	1	2.5"	B&B
4601-1	SUNNYSIDE RD.	GREENSPIRE LINDEN	1	2.5"	B&B
4601-2	SUNNYSIDE RD.	GREENSPIRE LINDEN	1	2.5"	B&B
4058	SUNNYSIDE RD.	PRAIRIE EXPEDITION AMERICAN ELM	1	2.5"	B&B
4060	SUNNYSIDE RD.	GREENSPIRE LINDEN	1	2.5"	B&B
4511-1	SUNNYSIDE RD.	PRAIRIE EXPEDITION AMERICAN ELM	1	2.5"	B&B
4511-2	SUNNYSIDE RD.	PRAIRIE EXPEDITION AMERICAN ELM	1	2.5"	B&B
4418-1	CURVE AVE.	SWAMP WHITE OAK	1	2.5"	B&B
4418-2	CURVE AVE.	SWAMP WHITE OAK	1	2.5"	B&B

HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY RECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL NGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. DRAWN BY: KM/JC TM CHECKED BY: __ Lic. No. 43364 DESIGN TEAM REVISIONS



PHONE: 952.912.2600 10901 RED CIRCLE DRIVE #300 MINNETONKA, MN 55343-9302 www.sehinc.com



MORNINGSIDE A / WHITE OAKS C ROADWAY RECONSTRUCTION

MISCELLANEOUS DETAILS

DATE: 2/26/16

Cost Share Grant Evaluation Form Green Infrastructure Grant

Applicant: City of Plymouth Project: 2016 Street Recon Total Project Budget:\$25,500 Requested Funding: \$19,125

Green Infrastructure Grant: project must result in greater water quality/natural resource improvements.

Organization Type:	City				
			llutants off the road as possible through iron		
	ns on RoW of residential neighborhood that		ı Lake.		
Past History: Has th	e applicant applied before? Not that I know	of			
Project Design (70pt	rs)				
Notes: The raingard	ens are designed to capture street runoff,	30 /45	Water Resource Improvement to MCWD		
	t a pollutant reductions beyond an	5 /5	Innovative Design		
	Although they are taking impervious	5 /5	Budget Detail		
	ey are only sized to take a portion of it 1 lb) The city has 28 other raingardens in	15 /15	Maintenance Plan		
	others that the city has well maintained.				
	Project Design Total:	55 /70			
Education & Outread	ch (15 pts)				
Notes: Being in the	RoW, these RGs are going to be very	10 /10	Outreach Techniques		
	e neighborhood. The proposed	5 /5	Visibility of Demonstration		
	off the nearby bike path is in a great				
	ople's attention and bring awareness, as				
	aterials to neighborhood and West Metro				
Water Amarice (WW	WA) newsletter write up. Education and Outreach Total:	15 /15			
Water Pessures Pric		13 /13			
Water Resource Price		E /4E	Altimorphy and adult District Bulletinia		
	ason Lake, which is impaired for nat, does not tie into other District	5 /15	Alignment with District Priorities		
	continue to strengthen partnership with				
city.	continue to strengthen partnership with				
	Water Resource Prioritization Total:	5 /15			
	Total:	75 /100			
Funding Approval	Potential for up to 75% funding				
Process	- project will need Board approval	for funding reque	ests over \$5,000		
1100033			\$50,000, or if the project is funding equipment o		
	requires long term maintenance by a public entity				
	- project will be reviewed and compared to other like projects that met the application deadline				
- project will be reviewed, and funding will be prioritized by a staff team, our Citizen's Advisory					
	Committee, and lastly the MCWD Board of Managers				
Reporting	- Inspection Report				
	 Opportunities for monitoring 				
	- Description and location of outre				
		•	roject Has the project and outreach initiated other		
	efforts on improving water qualit	y and awareness			

Name of Reviewer: Brett Eidem

Date Reviewed: 3/28/2016

Comments and Notes:

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

Figure 2: Ponderosa Reconstruction Area – Location map in relation to area lakes.

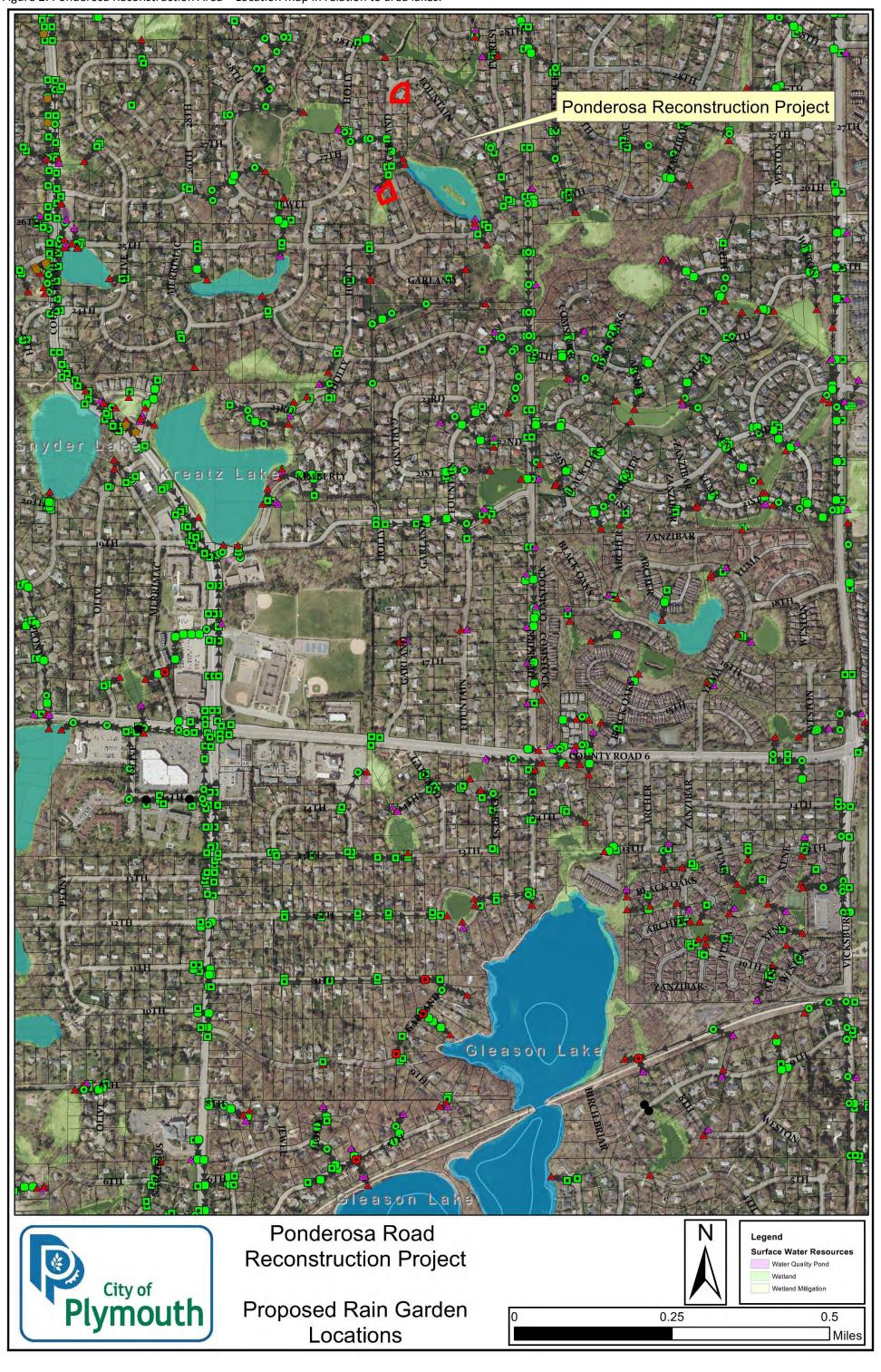


Figure 3: Project design cross section concept

GENERAL NO ES: RAIN GARDEN 1. THERE SHA BE 2 (1 S-ALLOW DEPTH & 1 TYPICAL DEPTH) RAINGARDENS INSTALLED WITH RAIN GARDEN PLANTING ABBREVIATIONS LOCATION TO BE DETERMINED IN THE FIELD BY ENGINEER. PLANT NAME ABBREVIATION SHRUBS: GALLON POTS 2. CURB CUTS INCLUDE CONCRETE APRON. ANNABELLE HYDRANGEA -CURB CUI EMERALD MOUND HONEYSUCKLE ЕМН 3. CONTRACTOR SHALL INSTALL 2' STRIP OF SOD BETWEEN RAINGARDEN AND CURB AND GUTTER, VIBURNUM 'BAILY COMPACT' (V. TRILOBUM) VBC PERENNIALS: 4" POTS 4. NSTALL DRAINTILE AT $\frac{1}{3}$ OF TOTAL LENGTH OF RANGARDEN. CONNECT DRANTILE TO CATCH BASIN SEDUM 'AUTUMN JOY SAJ (FOR YPICA_ DEP H ISN ALLATION) OR DRAINTILE UNDER CURB. LIATRIS 'FLORISTAN VIOLET LFV DAYLILY 'LEMON LOLLYPOP' CONNECT DRAINTLE DLL 5. EXCAVATE AS SHOWN BELOW TO INS ALL RAINGARDEN. BLUE FLAG IRIS (IRIS VERSICOLOR) IRIS TO STREET DRAINTH BLACK-EYED SUSAN 'GOLDSTRUM' BES 6. RAIN GARDEN MEDIA SHALL CONSIST OF 80% ASTM C-33 CONSTRUCTION SAND & 20% ORGANIC ASTER 'ALMA POTSCHKE' (A. NOVAE-ANGLIAE) AAP ASTER 'PURPLE DOME' APD 8 40 FEATHER REED GRASS 'KARL FORESTER' 7. RON THIANCED SAND F TER SHALL CONSIST OF RON FLINGS HOMOGENEOUSLY MIXED AT 5% INTO FRG BEBB'S SEDGE BS LITTLE BLUESTEM 8. RON MUST BE AT LEAST 90% ELEMENTAL IRON WITH SIZE DISTRIBUTION EQUAL TO C-33 SAND. 3 9. ALL RAINGARDENS WILL BE MULCHED WITH 3" SHREDDED HARDWOOD. -CURB CUT 10. USE STEEL IDCING. RF-AINING WALL 11. CONTRACTOR SHALL EMPLOY MEANS TO AVOID SC COMPACT ON WITHIN THE GARDEN. 12. ASSUME WIDTH OF FACH RAIN GARDEN TO BE 8' WIDE. 13. NSTALL DRAINTHE CLEANOUTS WITH PLASTIC CAP AT END OF FACH RUN 14. DRAINTILE FT HINGS ARE NCIDEN AL. 15. ADD SEMI-C ROLE OF BEBB'S SEDGE AT ALL CONCRETE APRONS ENTERING THE GARDEN. 16. BFBB'S SFDGF MUST BF OCATED A MINIMUM OF 2' AWAY FROM APRON 10' 24" CONCRETE APRON UNIFSS NOTED -6" OF COVER - 2' CURB CUT 6" RANGARDEN DEP BACK OF CURB 12" RAIN GARDEN MED A CONSTRUCT 6"IRON ENLIANCED SAND FILTER-4" DRAINTILE W/ SOCK TYPICAL SHALLOW RAIN GARDEN DE AL PLANTING DETAILS PLANTING DETAIL NOTES: PLACE ON MIN. 6" CL 5 AGGREGATE MATERIAL 1. SHRUBS SHALL BE GALLON PO S. 2. FLOWERS AND GRASSES SHALL BE 4". 9" OF COVER CURB DETA _ SECTION "A" CONCRE - CURB & CUIT-R B618 OR SURMOUNTABLE 9" RANGARDEN DEP 18" RAIN CARDEN MEDIA-9"IRON FNHANCED SAND FILTER-- 4" DRAINTILE W/ SOCK CURB DETAL INCIDENTAL TO GARDEN TYPICAL RAIN GARDEN DETAIL

		-				
KO	DATE	BY	CKD	APPR	REVISION	





PLYMOUTH, MINNESOTA
PONDEROSA RECONSTRUCTION

RANGARDEN DETAIS

STATE AID.

ROJECT NO.

COUNTY

ROJECT NO.

PROJECT NO.

PROJECT NO.

PROJECT NO.

L. EXPANDE

J. RENNEBERG 2—16

51

Figure 4: Photos of project area pre-construction



2800 Garland Lane N



2625 Garland Lane N

Figure 5: Examples of past rain gardens installed in the City of Plymouth









Cost Share Grant Evaluation Form	
Community Engagement Grant	

Name of Reviewer:	Brett Eidem
Date Reviewed:	3-28-2016

Applicant: Annunciation Church

Project: Main Entrance SW Retrofit, 509 W 54th St, Minneapolis

Total Project Budget: \$25,426-questionable

Requested Funding: \$19,069

<u>Community Engagement Grant:</u> must be designed to produce greater public awareness of ways to improve water quality. These projects use a stormwater BMP as a demonstration to educate the public to build community capacity to grow knowledge and support of stormwater management in the community.

	ement in the community.				
Organization Type:					
		SW retrofit in the	e works, but this project had funding behind design		
	willing to take on the labor with his troop				
-	e applicant applied before? No				
Project Design (30pt	,				
	pposed to capture runoff from roof,	10/10	Water Resource Improvement to MCWD		
	of main entrance to church. Annual	0 /5	Innovative Design		
•	5 lbs TSS and .6 lbs P for 16,022 sf	5 /5	Budget Detail		
	d to be captured through RGs and trench	10/10	Maintenance Plan		
drains.		25 /5	10		
	Project Design Total:	25 /3	30		
Education & Outread					
	ut is organizing volunteers to construct,	20 /20	Influence within Community		
_	Church has K-8 school attached, and is	25 /25	Outreach Techniques		
•	outdoor classroom activities. Has shown	10/10	Visibility of Demonstration		
	m and using this demonstration as	0 /5	Leveraging Other Grant Funds		
	educational signage, and messaging				
•	a, church and school channels. Annual				
explaining project to	nessaging can be organized and delivered				
explaining project to	Education and Outreach Total:	55 /6	60		
Water Resource Pric		33 / (
	Lake Rd and Lyndale. Tina Peterson is	5 /10	Alignment with District Priorities		
	ication. She is also a block captain for the	3/10	Augument with district Phonties		
	yay project. Project is two blocks from the				
creek.	ay project. Project is two blocks from the				
0.00	Water Resource Prioritization Total:	5 /10			
	Total:	85 /100			
Funding Approval	Potential for up to 75% funding, not to ex	•			
Process			ests over \$5,000 and a public hearing if it is over \$50,00		
		•	ike projects that met the application deadline		
- project will be reviewed by a staff team, our Citizen's Advisory Committee, and the MCWD Boa					
Managers					
Reporting	Required for all Community Engagement	projects, neede	d before phased reimbursement is released		
	- Description and location of outre	ach techniques ι	used		
	- Number of people engaged and educated on the project				
	 Has the project and outreach initi 	ated other effor	ts on improving water quality and awareness		
	 Opportunities for monitoring 				
	- Inspection Form				

Comments and Notes:

Cost Share 2015 Detailed Evaluation Criteria Community Engagement Grant Evaluation Criteria

Project Design- 30 Points

- Water resource impact to MCWD (cost benefit)
 - o Proposed project captures greater than 50% of site runoff
 - o Reduces flow, promotes infiltration, reduces erosion
 - o Creates habitat and promotes pollinator plants
 - o Entire site design, with detailed breakdown of BMPs and correlating removals of each
- 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- 60 Points

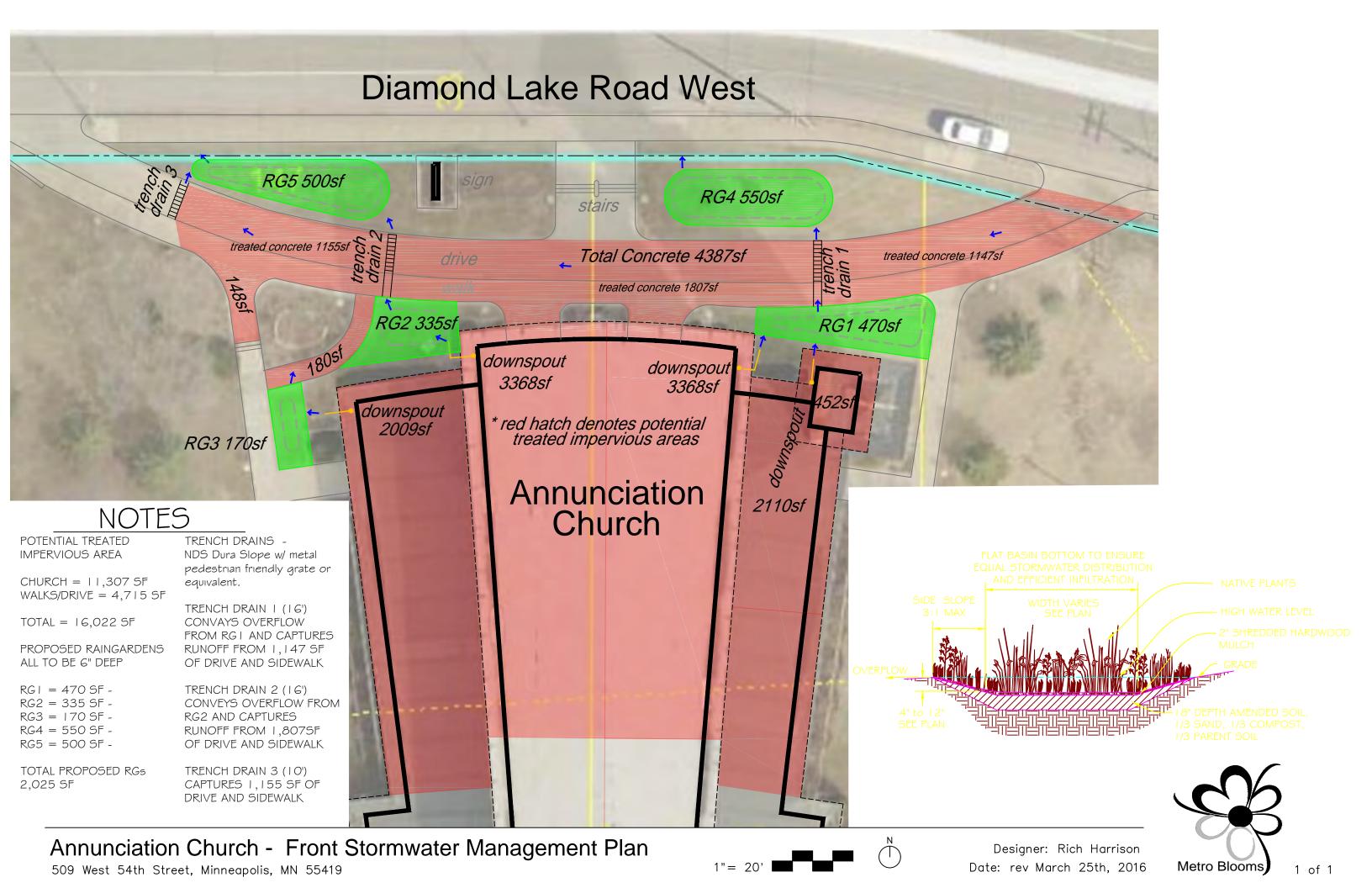
- Influence within Community
 - o Delineating who within the organization will execute education and outreach efforts
 - Partnerships
 - Schools, other organizations- establishing classroom curriculum around water quality education
 - Collaborations- working with other organizations on the same water quality project
 - o Community Capacity- Does the project encourage community involvement or service by local citizens?
- Outreach Techniques
 - o Educational Signage- Project specific/ Connections to other District Efforts
 - o Host an Event-utilizing partnerships to host an event that incorporates stormwater management awareness and creates a foundation for building community capacity to impact the problem of water pollution
 - o Innovative Outreach Techniques- Use of cutting edge technology, something we haven't funded before, first of its kind in the region/state, utilizing social media
- Visibility- How easily can passers by understand what the project is and how it works
- Leveraging other funds- is project utilizing other grant dollars or resources to accomplish project goals

Water Resource Prioritization- 10- 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 or education
- Protection of high value resource

Reporting- Required for Community Engagement projects

- 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
- o Opportunities for monitoring
- o Inspection Report



Cost Share Grant Evaluation Form
Community Engagement Grant

Name of Reviewer:	Brett Eidem
Date Reviewed:	3/29/2016

Applicant: Bethel Evangelical Lutheran Church Project: SW Retrofit, 4120 17th ave S, Minneapolis

Total Project Budget: \$100,000

Requested Funding: \$

<u>Community Engagement Grant:</u> must be designed to produce greater public awareness of ways to improve water quality. These projects use a stormwater BMP as a demonstration to educate the public to build community capacity to grow knowledge and support of stormwater management in the community.

Organization Type:				
		d stormwater ut	cility fee, while fulfilling their mission to be stewards of	
the community and	the environment. e applicant applied before? No, but staff has	s most with thom	ansite and discussed plan for ever a very	
Project Design (30pt	<u> </u>	s met with them	offsite and discussed plan for over a year.	
	oses to have larger pollutant reductions	10 /10	Water Resource Improvement to MCWD	
	ch, but some of the design is vague. I feel	5 /5	Innovative Design	
•	raingarden should get funded, as that is	5 /5	Budget Detail	
	looking for in cost effectiveness. But	5/10	Maintenance Plan	
	ardens need to be further developed.	- /		
Entire site reduction	n- 2 lbs P, just parking lot, 1 lb P.			
	Project Design Total:	25 /3	30	
Education & Outrea	ch (60 pts)			
	have a large community garden and are	15 /20	Influence within Community	
	reach through more than just stormwater	10 /25	Outreach Techniques	
	hip strategies. Site for Bancroft	10/10	Visibility of Demonstration	
Neighborhood Asso	ciation.	0 /5	Leveraging Other Grant Funds	
	Education and Outreach Total:	35 /6	0	
Water Resource Pric	pritization (10 pts)			
Notes: Project is abo	out 10 blocks from Lake Hiawatha and	5 /10	Alignment with District Priorities	
	ost share projects in close proximity in			
	e discussed leading a garden tour this			
could be incorporate				
	Water Resource Prioritization Total:	5 /1	0	
	Total:	65 /100		
Funding Approval Process	Potential for up to 75% funding, not to ex project will need Board approval f		ests over \$5,000 and a public hearing if it is over \$50,000	
	- project will be reviewed and com	pared to other li	ke projects that met the application deadline	
	- project will be reviewed by a sta	aff team, our Cit	tizen's Advisory Committee, and the MCWD Board o	
	Managers			
Reporting			d before phased reimbursement is released	
	- Description and location of outrea	•		
	- Number of people engaged and e			
- Has the project and outreach initiated other efforts on improving water quality and awareness				
	- Opportunities for monitoring			
	- Inspection Form			

Comments and Notes:

This project scored low for the lack of detail overall. However, I have met with congregation and now their passion for this project. There is no parking lot construction. This is solely a stormwater retrofit and has great pollution reduction potential. I recommend funding at least the large parking lot raingarden, and potentially one other. But would need to see more detail to which is next best option, and a cost estimate broken down by garden. Also will work with assigning a MWS to help with outreach plan.

Cost Share 2015 Detailed Evaluation Criteria Community Engagement Grant Evaluation Criteria

Project Design- 30 Points

- Water resource impact to MCWD (cost benefit)
 - o Proposed project captures greater than 50% of site runoff
 - o Reduces flow, promotes infiltration, reduces erosion
 - o Creates habitat and promotes pollinator plants
 - o Entire site design, with detailed breakdown of BMPs and correlating removals of each
- 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- 60 Points

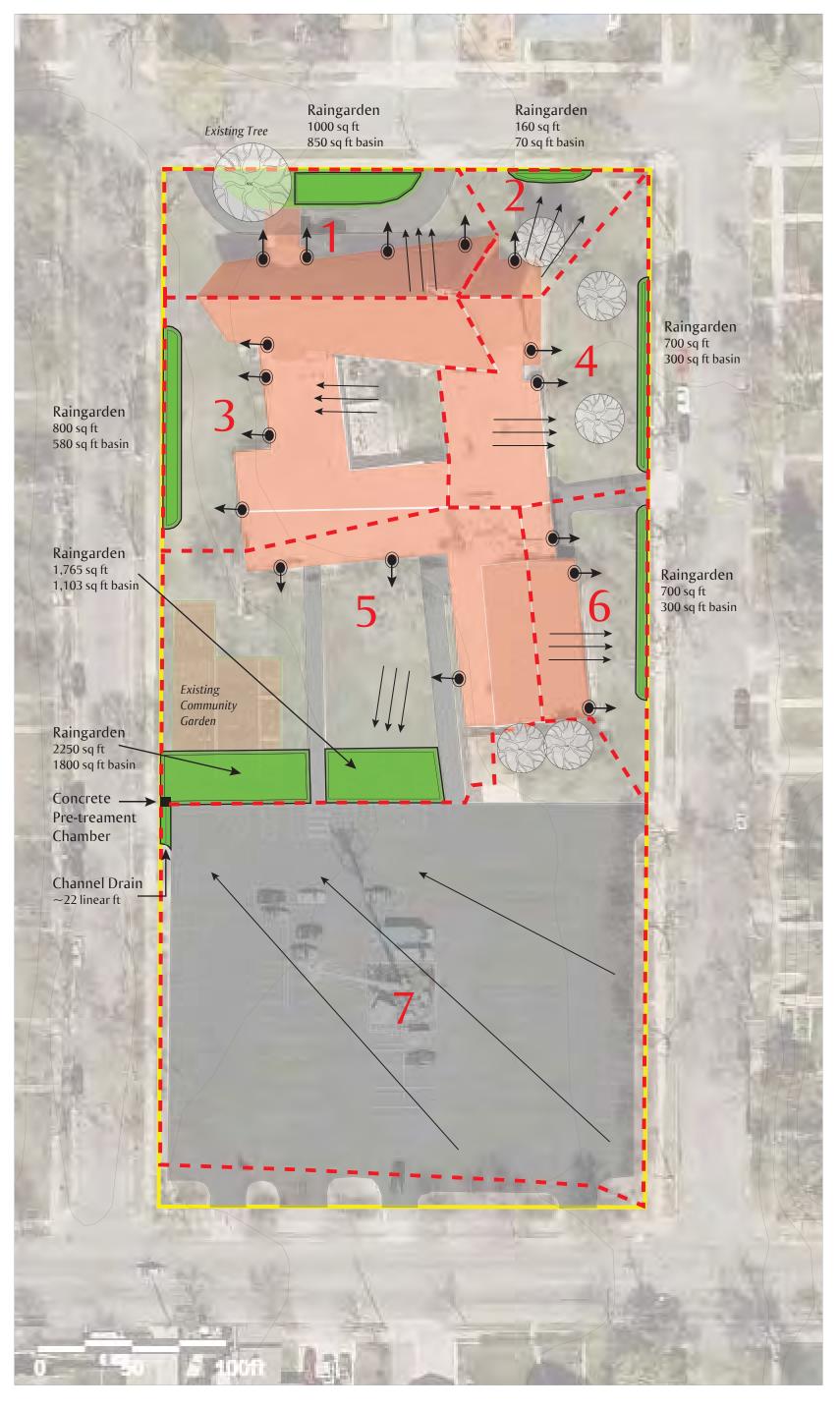
- Influence within Community
 - o Delineating who within the organization will execute education and outreach efforts
 - o Partnerships
 - Schools, other organizations- establishing classroom curriculum around water quality education
 - Collaborations- working with other organizations on the same water quality project
 - o Community Capacity- Does the project encourage community involvement or service by local citizens?
- Outreach Techniques
 - o Educational Signage- Project specific/ Connections to other District Efforts
 - o Host an Event-utilizing partnerships to host an event that incorporates stormwater management awareness and creates a foundation for building community capacity to impact the problem of water pollution
 - o Innovative Outreach Techniques- Use of cutting edge technology, something we haven't funded before, first of its kind in the region/state, utilizing social media
- Visibility- How easily can passers by understand what the project is and how it works
- Leveraging other funds- is project utilizing other grant dollars or resources to accomplish project goals

Water Resource Prioritization - 10 - 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 or education
- Protection of high value resource

Reporting- Required for Community Engagement projects

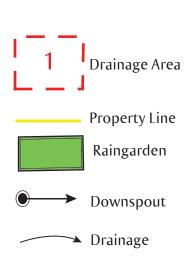
- o Description of outreach techniques used and their location
- o Number of people educated and engaged on the project
- o Has the project and outreach initiated other efforts on improving water quality and awareness
- o Opportunities for monitoring
- Inspection Report



Please Note:

This is a concept plan delineating the distinct drainage areas for this property. Raingarden size is proposed based on computer software modeling of the drainage area with raingarden sq ft to ascertain the effectiveness of each garden during 1.25" rain events and a 30" annual volume of runoff. The size of each garden represents the minimum size to meet a water quality goal of capturing and infiltrating over 90% of runoff volume.

The goal of this plan is not to design the exact detailed shape and location of each garden. The goal of this plan is to show size of needed raingardens to adequately meet water quality goals.





building -4,012 sq ft / .092 acre parking/drive -2,318 sq ft / .053 acre

IMPERVIOUS TREATED: 4.4%

RUNOFF REDUCTION: 96%

1.25" rain event - 4,516 gal volume: 30" avg yr -102,983 gal

1.25" rain event - .012 lbs phosphorous:

30" avg yr -.26243 lbs 1.25" rain event - 2.78 lbs sediment:

30" avg yr -62 lbs

The implementation of this raingarden would be within the existing vegetated area existing in the center of a passenger drop off driveway. The area includes a large existing tree so the size of the garden may be limited by the existence of tree roots. Feasibility of a raingarden in this area would therefore need further investigation. Should this drop off area need to be replaced, it would be a great opportunity to implement a raingarden in this location, as the existing tree would likely need to be removed in order to replace the driveway.

RAINGARDEN - 160 sq ft

IMPERVIOUS to BMP: 830 sq ft / .019 acre

building -830 sq ft / .019 acre

IMPERVIOUS TREATED:

sediment:

~1%

RUNOFF REDUCTION: 96%

volume: 1.25" rain event - 642 gal

30" avg yr -15,021 gal

1.25" rain event - .00115 lbs phosphorous: 30" avg yr -.027 lbs

1.25" rain event - .177 lbs

30" avg yr -4.14 lbs

The implementation of this raingarden would be to capture runoff from existing downspouts on the Northeast section of roof. This section of roof has downspouts that be difficult, if not impossible, to connect to other downspouts for the adjacent roof areas. This drainage area is small and would only require a small raingarden to capture most rain events. It would be an opportunity to add a raingarden area to match other plantings with bigger water quality benefit and ensure capture for this area of roof that would otherwise be difficult.

RAINGARDEN - 800 sq ft

IMPERVIOUS to BMP: 9,554 sq ft / .219 acre

building -9,554 sq ft / .219 acre

IMPERVIOUS TREATED:

11%

RUNOFF REDUCTION: 96%

1.25" rain event - 6935 gal volume:

> 30" avg yr -155280 gal

1.25" rain event - .001238 lbs phosphorous:

> 30" avg yr -.277 lbs

sediment: 1.25" rain event - 2 lbs

> 43 lbs 30" avg yr -

The implementation of this raingarden would be to capture runoff from existing downspouts on the west central sections of roof. This section of roof is substantial at 11% of the total impervious surface for the site. The garden location would be highly visible and could be a beautiful addition to the landscaping of the site.



RAINGARDEN - 370 sq ft IMPERVIOUS to BMP: 5,062 sq ft / .137 acre 4,012 sq ft / .113 acre The implementation of this raingarden would be for building sidewalk -450 sq ft / .01 acre the capture of runoff conveyed via downspouts on the east central side of the building. There is also a small section of sidewalk that would be captured. **IMPERVIOUS TREATED:** 5.75% 90% annually **RUNOFF REDUCTION:** 1.25" rain event - 4,129 gal volume:

90522 gal

.156 lbs

1.4 lbs

phosphorous:

sediment:

sediment:

30" avg yr -

30" avg yr -

30" avg yr -

30" avg yr -

1.25" rain event - 2.67 lbs

1.25" rain event - .0079 lbs

1.25" rain event - 2.78 lbs

RAINGARDEN - 1,765 sq ft IMPERVIOUS to BMP: 10,304 sq ft / .236 acre The implementation of this raingarden would serve building -7,772 sq ft / .178 acre sidewalk -2,532 sq ft / .058 acre to capture runoff from sections of the west central roof. It is diagrammed as a matching garden area for the larger raingarden loacted due west. IMPERVIOUS TREATED: 11.7% **RUNOFF REDUCTION:** 100% annually volume: 1.25" rain event - 7,338 gal 30" avg yr -153,283 gal 1.25" rain event - .01446 lbs phosphorous: .28197 lbs

	30" avg yr - 52 lbs	
	RAIN	IGARDEN - 370 sq ft
IMPERVIOUS to B	MP: 3,162 sq ft / .0725 acre	
building -	2,562 sq ft / .058 acre	The implementation of this raingarden would serve
sidewalk -	600 sq ft / .014 acre	to capture runoff from existing downspouts on the
		south western sections of roof. The garden location
		would be highly visible and could be a beautiful
_		addition to the landscaping of the site.
IMPERVIOUS TREA	ATED:	addition to the landscaping of the site.
	3.6%	
RUNOFF REDUCT	ION: 96% annually	
volume:	1.25" rain event - 2,395 gal	
	30" avg yr - 54,982 gal	
phosphorous:	1.25" rain event00463 lbs	
	30" avg yr1047 lbs	
sediment:	1.25" rain event815 lbs	
	30" avg yr - 18.5 lbs	



RAINGARDEN - 2,250 sq ft IMPERVIOUS to BMP: 52,000 sq ft / 1.19 acre 52,000 sq ft / 1.19 acre parking -

IMPERVIOUS TREATED:

60%
RUNOFF REDUCTION: 96%
4 2 - 11

volume:	1.23 Talli Evelit -	33,707 gai
	30" avg yr -	662,924 gal
phosphorous:	1.25" rain event -	.005868 lbs

30" avg yr -1.0842 lbs sediment:

1.25" rain event - 35 lbs 30" avg yr -656 lbs

The implementation of this raingarden, with the installation of a channel drain and pre-treatment sediment chamber, would capture runoff from most of the parking lot, which constitutes 60% of the property. This is the largest drainage area on the property with the highest percentage of impervious surface. This would likely be the first priority for a project at the Bethel Church.

TOTAL PROPERTY - 141,672 sq ft / 3.25 acre

TOTAL IMPERVIOUS: 87,900 / 2 acre

building -30,000 sq ft / .68 acre parking / drive -52,000 sq ft / 1.19 acre 3582 sq ft / .08 acre sidewalk drive -2,318 sq ft / .053 acre

TOTAL PERVIOUS: 53,772 sq ft / 1.25 acre turf/landscaping - 49,306 sq ft / 2.147 acre community garden - 4,466 sq ft / .103







Balancing Urban Development and Water Conservation

Client Name: Bethel Evangelical Lutheran Church

Project Name: Stormwater Capture (Metro Blooms Design)

Jobsite Address: 4120 17th Avenue South Minneapolis, MN Billing Address: 4120 17th Avenue South Minneapolis,

55407 MN 55407

Estimate ID: EST299274 Drawing #: 2

Date: Mar 25, 2016

Channel Drain - Parking Lot Entrance

\$19,125.18

Installation of Heavy Duty Customized Channel Drain to Allow Parking Lot Runoff to Enter Rain Garden to the North (must be customized as the existing asphalt surface drains to the south)

1	Lump Sum	Channel Trough	\$2,224.69
1	Lump Sum	Channel Grate	\$2,780.87
100	Hours	ECO FLEET	\$5,128.00
100	Hours	ECO Install Crew	\$6,600.00
1	Lump Sum	Rental Equipment	\$556.17
1	Lump Sum	Lumber, Wood Forms	\$489.43
20	Each	Rebar - 20' lengths	\$244.80
2	Each	Concrete - Short Load	\$1,101.22

Contingency Budget ~ 5%

\$3,750.00

The contingency budget allows for changes in material pricing or quantity changes. Any changes will be authorized by the designated Church representative before such work is completed.

1 Lump Sum Contingency Budget \$3,750.00

Rain Garden 7	\$31,541.18

Rain Garden receiving parking lot runoff. 1,800 sf basin area.

27	Cubic Yards	Turf Removal - Disposal Fee	\$600.75
127	Cubic Yards	Excavated Soil - Disposal Fee	\$1,412.24
46	СУ	Rain Garden Soil - 80/20 Blend (Sand/Compost)	\$1,407.14
14	CY	Mulch, Double Shredded Hardwood	\$770.84
5	Yard	Soil - Topsoil (Screened)	\$91.75

Page 1 of 3

0.5	Pounds	Seed, grass	\$21.42
5	Ea	Delivery - \$150.00	\$834.25
0.5	Weekly	Portable Bathroom	\$111.24
5	Hrs	Stacy - Project Layout and Supervise	\$444.95
140	Hours	ECO Install Crew	\$9,240.00
140	Hours	ECO Equipment Fleet	\$7,179.20
1	Lump Sum	Rental Equipment	\$1,112.35
6	Hours	Design, Plant	\$533.94
375	Plugs	Native Plants - Plug	\$918.75
375	Pots, small	Native, Plants - Pots, Small 3.5"	\$2,295.00
60	Hours	Planting Labor	\$2,550.60
20	Hours	Earth Wizards Dumptruck	\$555.60
20	Hours	Dumptruck Driver	\$1,105.20
4	Hrs	Stacy - Project Layout and Supervise	\$355.96

Rain Garden 5 \$13,072.70

Rain garden receives runoff from SW portion of the building and lawn area. 1103 sf basin area.

15	Cubic Yards	Turf Removal - Disposal Fee	\$333.75
41	Cubic Yards	Excavated Soil - Disposal Fee	\$455.92
36	СУ	Rain Garden Soil - 80/20 Blend (Sand/Compost)	\$1,101.24
11	CY	Mulch, Double Shredded Hardwood	\$605.66
5	Yard	Soil - Topsoil (Screened)	\$91.75
0.25	Pounds	Seed, grass	\$10.71
5	Ea	Delivery - \$150.00	\$834.25
40	Hours	ECO Install Crew	\$2,640.00
4	Hours	Design, Plant	\$355.96
250	Plugs	Native Plants - Plug	\$612.50
250	Pots, small	Native, Plants - Pots, Small 3.5"	\$1,530.00
30	Hours	Planting Labor	\$1,275.30
12	Hours	Earth Wizards Dumptruck	\$333.36
12	Hours	Dumptruck Driver	\$663.12
40	Hours	ECO FLEET	\$2,051.20
2	Hrs	Stacy - Project Layout and Supervise	\$177.98

Forebay	ş2,855.34

A customized concrete forebay to capture sediment and debris. Dimensions are approximately 36" wide by 24" depth into the rain garden with a removable metal grate.

			Estimate	e Total	\$70,344.40
				Taxes	\$0.00
			Su	btotal	\$70,344.40
4	Hours	ECO FLEET			\$205.12
4	Hours	ECO Install Crew	4 PERSON CREW		\$264.00
1	Lump sum	Wood forms			\$428.25
1	EA	Concrete - Short Load - Anything less than 3 yards to be at the short load rate	Anything less than 3 yards short load rate	s to be at the	\$550.61
12	Hours	ECO FLEET			\$615.36
12	Hours	ECO Install Crew - 2 guys x 12 hours - 4 PERSON CREW	4 PERSON CREW		\$792.00

Cost Share Grant Evaluation Form
Community Engagement Grant

Name of Reviewer:	Brett Eidem
Date Reviewed:	3-29-2016

Applicant: Field Community School

Project: Raingarden retrofit, 4645 4th Ave S, Minneapolis

Total Project Budget: \$41,900

Requested Funding: \$

<u>Community Engagement Grant:</u> must be designed to produce greater public awareness of ways to improve water quality. These projects use a stormwater BMP as a demonstration to educate the public to build community capacity to grow knowledge and support of stormwater management in the community.

Organization Type:	School				
Are the Goals of Pro	ject Clearly Outlined? Yes, they have a stron	g curriculum b	ased approach to stormwater and want to have		
demonstration pract	tices onsite, while reducing runoff and protec	cting the enviro	onment		
Past History: Has th	e applicant applied before? Received a Cyntl	nia Krieg grant	in 2016 for \$14,000 for this curriculum development		
Project Design (30pt	s)				
Notes: Project is pro	posing to capture a large amount of	10 /10	Water Resource Improvement to MCWD		
impervious surface (25,000 sf) with 4 raingardens (total 1,700	0 /5	Innovative Design		
cf storage), 100 lbs 1	SS removed, 0.5 lbs P removed annually	5 /5	Budget Detail		
(estimate). There are	e also pollinator gardens incorporated	10/10	Maintenance Plan		
into the design, but	do not have the same water quality				
improvement.					
	Project Design Total:	25	/30		
Education & Outread					
	ch plan, but they have also received	20 /20	Influence within Community		
	g to implement curriculum and signage	25 /25	Outreach Techniques		
	artnership to other schools and	10/10	Visibility of Demonstration		
	os that share ball fields and facilities.	0 /5	Leveraging Other Grant Funds		
	ed by this project. Many letters of support				
from the community			Ico		
	Education and Outreach Total:	55 ,	760		
Water Resource Prio		= /10			
<u>-</u>	cks of creek, and also a strong partner	5 /10	Alignment with District Priorities		
with Parkway Place	Townnomes.				
	Water Resource Prioritization Total:	5 /1	10		
	Total:	85 /100)		
Funding Approval	Potential for up to 75% funding, not to ex-	ceed \$100,000			
Process	- project will need Board approval fo	or funding requ	uests over \$5,000 and a public hearing if it is over \$50,00		
	- project will be reviewed and compared to other like projects that met the application deadline				
	- project will be reviewed by a staff team, our Citizen's Advisory Committee, and the MCWD Board of				
	Managers				
Reporting	Required for all Community Engagement projects, needed before phased reimbursement is released				
	- 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				
	- Opportunities for monitoring				
	- Inspection Form				

Comments and Notes:

I would recommend funding 50%-75% of the raingardens, but with no water quality improvement to the pollinator gardens, I would leave that out of the cost share approval. Cost of RGs- \$27,700

75% of RGs- \$20,775 50% of RGs- \$13,850

Cost Share 2015 Detailed Evaluation Criteria Community Engagement Grant Evaluation Criteria

Project Design- 30 Points

- Water resource impact to MCWD (cost benefit)
 - o Proposed project captures greater than 50% of site runoff
 - o Reduces flow, promotes infiltration, reduces erosion
 - o Creates habitat and promotes pollinator plants
 - o Entire site design, with detailed breakdown of BMPs and correlating removals of each
- 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- 60 Points

- Influence within Community
 - o Delineating who within the organization will execute education and outreach efforts
 - o Partnerships
 - Schools, other organizations- establishing classroom curriculum around water quality education
 - Collaborations- working with other organizations on the same water quality project
 - o Community Capacity- Does the project encourage community involvement or service by local citizens?
- Outreach Techniques
 - o Educational Signage- Project specific/ Connections to other District Efforts
 - o Host an Event-utilizing partnerships to host an event that incorporates stormwater management awareness and creates a foundation for building community capacity to impact the problem of water pollution
 - o Innovative Outreach Techniques- Use of cutting edge technology, something we haven't funded before, first of its kind in the region/state, utilizing social media
- Visibility- How easily can passers by understand what the project is and how it works
- Leveraging other funds- is project utilizing other grant dollars or resources to accomplish project goals

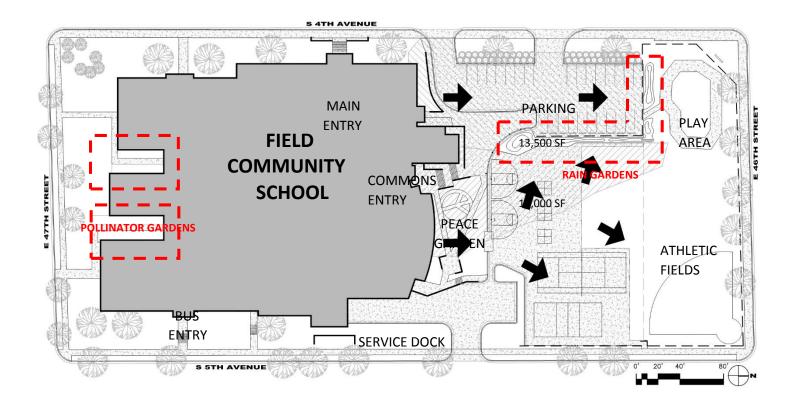
Water Resource Prioritization - 10 - Points

- 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 or education
- Protection of high value resource

Reporting- Required for Community Engagement projects

- 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
- o Opportunities for monitoring
- Inspection Report

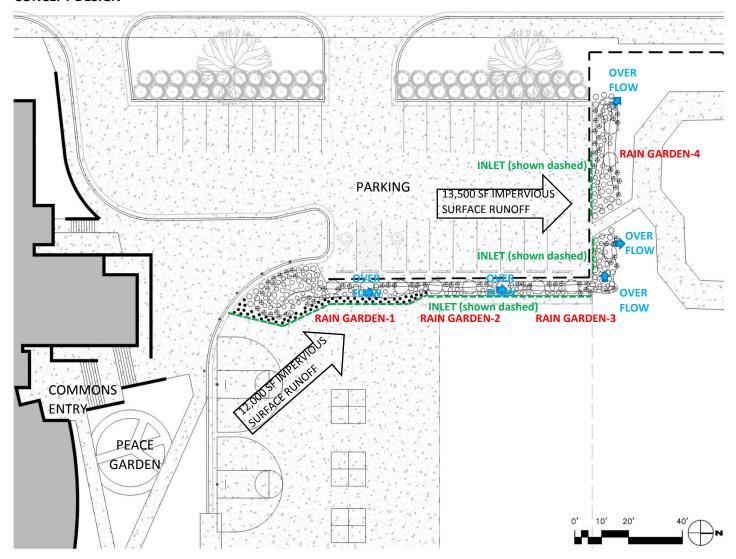
CONCEPT DESIGN



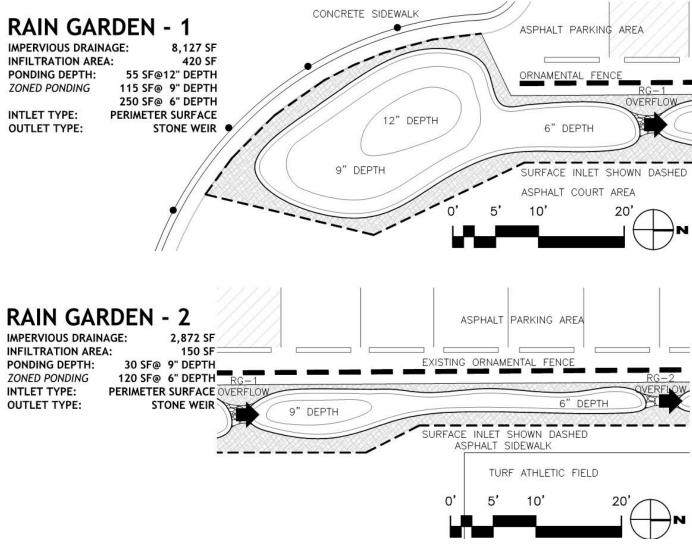
	SITE AF	REA C	CALCULATI	IONS	
	EXISTING	AREA (SF)	PROPOSED	AREA (SF)	COMMENTS
TOTAL SITE AREA	173,500	SF	173,000	SF	
IMPERVIOUS SUFACES					
BUILDING	56,000	SF	56,000	SF	
ASPHALT/ CONCRETE	58,830	SF	49,580	SF	INCLUDES SIDEWALKS, PARKING AREAS AND ASPHALT COURT/PLAY AREAS
PERVIOUS SUFACES					
TURF &/OR LANDSCAPED	58,670	SF	64,020	SF	
PROPOSED POLLINATOR GARDENS			1,700	SF	
PROPOSED RAINGARDENS			1,700	SF	

FIELD COMMUNITY SCHOOL - MCWD COST SHARE COMMUNITY ENGAGEMENT GRANT

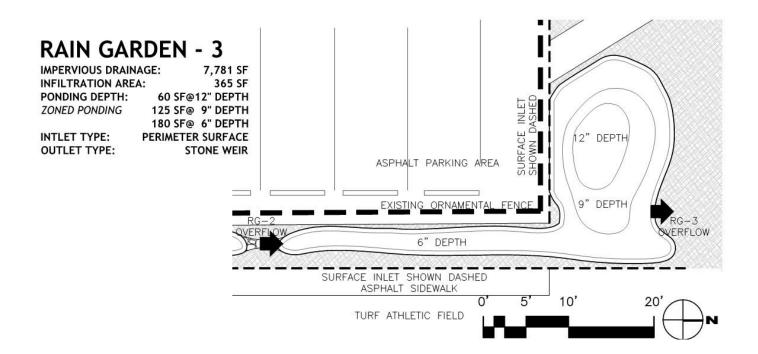
CONCEPT DESIGN



RAIN GARDEN DESIGN



RAIN GARDEN DESIGN

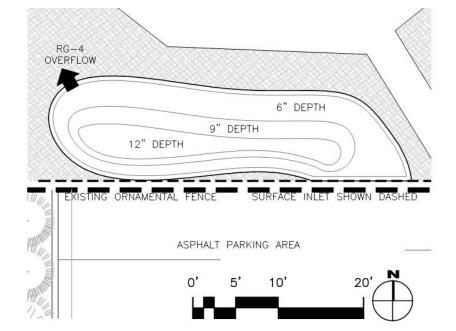


RAIN GARDEN - 4

IMPERVIOUS DRAINAGE: 6,720 SF
INFILTRATION AREA: 370 SF
PONDING DEPTH: 75 SF@12" DEPTH
ZONED PONDING 110 SF@ 9" DEPTH

185 SF@ 6" DEPTH

INTLET TYPE: PERIMETER SURFACE OUTLET TYPE: STONE WEIR



Cost Share Grant Evaluation Form	
Community Engagement Grant	

Name of Reviewer: _____Brett Eidem_____ Date Reviewed: _____3-30-2016_____

Applicant: Metro Blooms

Project: Diamond Lake/ Lynnhurst Alleyway project

Total Project Budget: \$101,000 Requested Funding: \$10,000

<u>Community Engagement Grant:</u> must be designed to produce greater public awareness of ways to improve water quality. These projects use a stormwater BMP as a demonstration to educate the public to build community capacity to grow knowledge and support of stormwater management in the community.

	ement in the community.		
	Non profit, neighborhood organized		
			nd lake and 4 lynnhurst alleys through BMPs
-	• • • • • • • • • • • • • • • • • • • •	ms also receive	d Cynthia Krieg funding for this outreach (as well as
many other alleywa			
Project Design (30pt		40/40	
	posed projects (17 perm. pavement	10/10	Water Resource Improvement to MCWD
	dens, 22 native plantings) capture 33,052	0 /5	Innovative Design
•	face and reduce TP to Minnehaha Creek	5 /5	Budget Detail
	by 400 lbs/year and reduce runoff by	10/10	Maintenance Plan
	year. Homeowners will learn how to		
	have already attended a raingarden		
	t educational meeting and one on one		
	3. Maybe not the most cost effective		
project, but is very t	cost effective in requested funding.	2F /	20
Education C. Outros	Project Design Total:	25 /	30
Education & Outread	nunity engagement with these projects.	20 /20	Influence within Community
	tings, block meetings, block leaders		-
•	with help of Metro Blooms for education	20 /25	Outreach Techniques
	ressive to see ¾ of a residential block	5/10	Visibility of Demonstration
	e anywhere from \$500-\$5,000 for	5 /5	Leveraging Other Grant Funds
_	s to create a green corridor in their alley.		
3torniwater retronts	Education and Outreach Total:	50 /6	
Water Resource Pric		30,0	
	within a few blocks of either the creek or	5 /10	Alignment with District Priorities
	complement and are going to be	0 / 20	76
	ction with Nokomis alleyways and		
blooming alleys in g			
2 2 2 2 2 2 2	Water Resource Prioritization Total:	5 /10)
	Total:	80 /100	
Funding Approval	Potential for up to 75% funding, not to exc		
Process	- project will need Board approval fo	or funding reque	ests over \$5,000 and a public hearing if it is over \$50,00
			ke projects that met the application deadline
- project will be reviewed by a staff team, our Citizen's Advisory Committee, and the MCWD Board of			
	Managers		
Reporting	Required for all Community Engagement p	orojects, needec	d before phased reimbursement is released
	- Description and location of outrea		
	- Number of people engaged and ed	ducated on the p	project
	- Has the project and outreach initia	ated other effor	ts on improving water quality and awareness
	 Opportunities for monitoring 		
	- Inspection Form		

Comments and Notes:

Henn. County Grant (approved)- \$50,000 MCWD Request- \$10,000

Cost Share 2015 Detailed Evaluation Criteria Community Engagement Grant Evaluation Criteria

Project Design- 30 Points

- Water resource impact to MCWD (cost benefit)
 - o Proposed project captures greater than 50% of site runoff
 - o Reduces flow, promotes infiltration, reduces erosion
 - Creates habitat and promotes pollinator plants
 - o Entire site design, with detailed breakdown of BMPs and correlating removals of each
- 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- 60 Points

- Influence within Community
 - Delineating who within the organization will execute education and outreach efforts
 - o Partnerships
 - Schools, other organizations- establishing classroom curriculum around water quality education
 - Collaborations- working with other organizations on the same water quality project
 - o Community Capacity- Does the project encourage community involvement or service by local citizens?
- Outreach Techniques
 - o Educational Signage- Project specific/ Connections to other District Efforts
 - O Host an Event-utilizing partnerships to host an event that incorporates stormwater management awareness and creates a foundation for building community capacity to impact the problem of water pollution
 - o Innovative Outreach Techniques- Use of cutting edge technology, something we haven't funded before, first of its kind in the region/state, utilizing social media
- Visibility- How easily can passersby understand what the project is and how it works
- Leveraging other funds- is project utilizing other grant dollars or resources to accomplish project goals

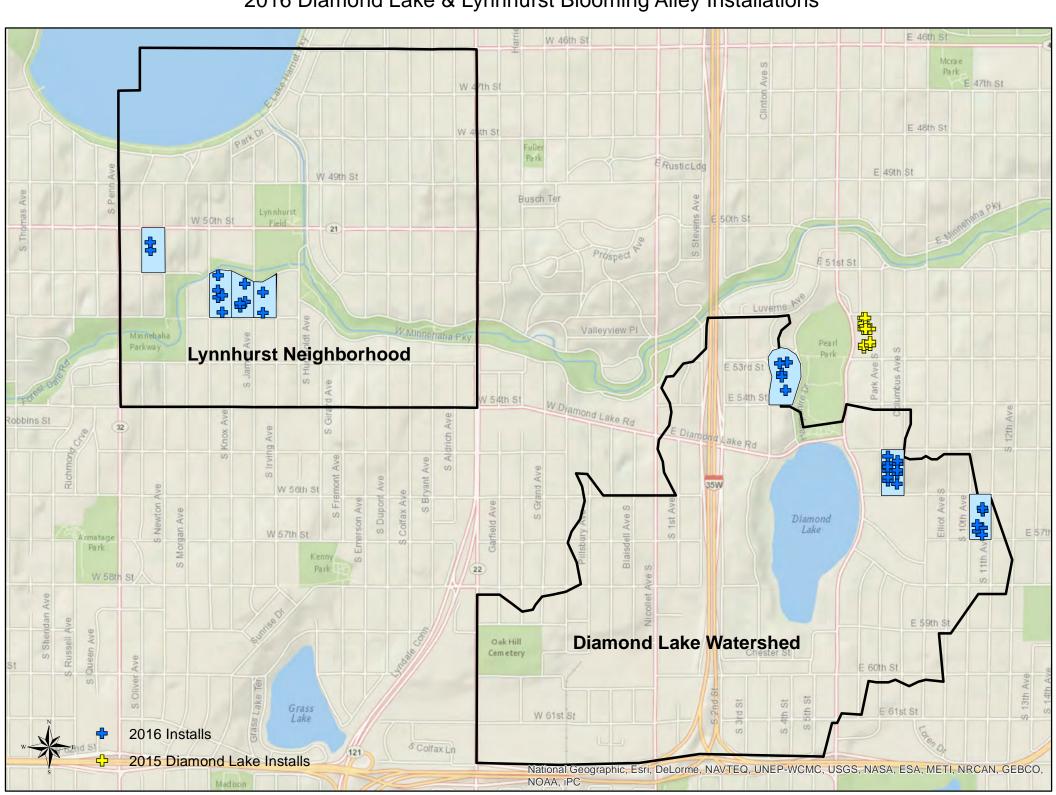
Water Resource Prioritization - 10 - Points

- 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 or education
- Protection of high value resource

Reporting- Required for Community Engagement projects

- 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
- o Opportunities for monitoring
- o Inspection Report

2016 Diamond Lake & Lynnhurst Blooming Alley Installations



Blooming Alleys

Project Cost

ADDRESS: Diamond Lake Subwatershed & Lynnhurst Neighborhood

PROJECT: Diamond Lake & Lynnhurst Blooming Alleys

CONSTRUCTION MATERIALS & LABOR		<u>QTY</u>	<u>Unit</u>		Unit Cost	<u>Amount</u>
Permeable Pavement Sections		1532	sq ft	\$	30.65	\$ 46,955.80
- J.L. Theis installs						
Permeable Pavement Walkway		63	sq ft	\$	38.65	\$ 2,434.95
- J.L. Theis installs						
Permeable Pavement Additional Costs						\$ 1,500.00
- Curves require additional cuts, extra material, membra	ane betv	veen garage	e & driveway, et	c.		
Contractor Mobilization		6	Alley	\$	400.00	\$ 2,400.00
- J.L. Theis charges flat mobilization rate/alley						
Raingardens		2366	sq ft	\$	5.00	\$ 11,830.00
- Conservation Corps to install						
Native Plantings		1519	sq ft	\$	4.00	\$ 6,076.00
- Conservation Corps to install						
Downspout Redirection & Gutters						\$ 7,200.00
		Materials &	Labor Subtotal			\$ 78,396.75
DESIGN, PROJECT MANAGEMENT, & CONSTRUCTION						
<u>OVERSIGHT</u>		<u>QTY</u>	<u>Unit</u>		Unit Cost	<u>Amount</u>
	T					
Permeable Pavement Design/Oversight		17	flat fee	\$	260.00	\$ 4,420.00
			flat fee (per			
Raingarden Design/Oversight		25	150 sq. ft.)	\$	300.00	\$ 7,500.00
			flat fee (per			
Native Planting Design/Oversight		12	150 sq. ft.)	\$	200.00	\$ 2,400.00
			a ·			
Project Management		35	flat fee/property	\$	240.00	\$ 8,400.00
		Design & O	versight Subtot	al		\$ 22,720.00
		Project Tot	al			\$101,116.75

Homeowner Contribution (40%)	\$41,116.75
Hennepin County Grant (Approved)	\$50,000.00
MCWD Request	\$10,000.00

Cost Share Grant Evaluation Form
Community Engagement Grant

Name of Reviewer:	Brett Eidem_
Date Reviewed:	3-28-2016

Applicant: 3rd Church of Christ the Scientist

Project: SW Retrofit

Total Project Budget: \$322,000

Requested Funding: 50%

<u>Community Engagement Grant:</u> must be designed to produce greater public awareness of ways to improve water quality. These projects use a stormwater BMP as a demonstration to educate the public to build community capacity to grow knowledge and support of stormwater management in the community.

Organization Type: (Church				
Are the Goals of Pro	ject Clearly Outlined? Yes, SW retrofit to all	eviate drainage is	ssues and become a more sustainable community.		
Direct engagement t					
Past History: Has the	e applicant applied before? No, but has bee	n working with C	ost share staff since 2014.		
Duningt Danium (20mt					
Project Design (30pts	acing a large portion of parking spaces, 4	10 /10	Water Resource Improvement to MCWD		
	ens with proposed monitoring wells,	5/5	Innovative Design		
	nd a cistern to capture and re-	5 /5	Budget Detail		
	imately 80% of site (1.2 acre) and 97% of	10/10	Maintenance Plan		
impervious surface (10/10	Wantenance Plan		
<u> </u>	Project Design Total:	30 /3	0		
Education & Outread	h (60 pts)				
Notes: kiddy corner	from school that there is already a	15 /20	Influence within Community		
	d 5 blocks from Harriet. Signage, tours,	20 /25	Outreach Techniques		
	ng with affiliate 1st church of Christ	10 /10	Visibility of Demonstration		
	ring wells and classroom curriculum to	0 /5	Leveraging Other Grant Funds		
be built from project					
	Education and Outreach Total:	45 /6	0		
Water Resource Prio					
l ———	e Harriet. Project will utilize MWS to help	5 /10	Alignment with District Priorities		
_	rs and curriculum. But project does not				
tie in with other proj		- 440			
	Water Resource Prioritization Total:	5 /10			
	Total:	80 /100			
Funding Approval Process					
		-	ke projects that met the application deadline		
		aff team, our Cit	izen's Advisory Committee, and the MCWD Board of		
	Managers				
Reporting	Reporting Required for all Community Engagement projects, needed before phased reimbursement is released				
	 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 					
- Opportunities for monitoring					
i e	- Inspection Form				

Comments and Notes:

A very expensive project for the pollutant reductions. There is also a great educational opportunity here with the proposed outreach and classroom curriculum. I would compare the value of the outreach outcomes of this project to Field School. But this project is much more expensive with a parking lot reconstruction. There are additional benefits to the monitoring wells, re-use cistern and pavers as other BMPs, but where do we draw the line for demonstration value? With budget we will need to pick and choose what parts of this project we want to fund.

Cost Share 2015 Detailed Evaluation Criteria Community Engagement Grant Evaluation Criteria

Project Design- 30 Points

- Water resource impact to MCWD (cost benefit)
 - o Proposed project captures greater than 50% of site runoff
 - o Reduces flow, promotes infiltration, reduces erosion
 - o Creates habitat and promotes pollinator plants
 - o Entire site design, with detailed breakdown of BMPs and correlating removals of each
- 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- 60 Points

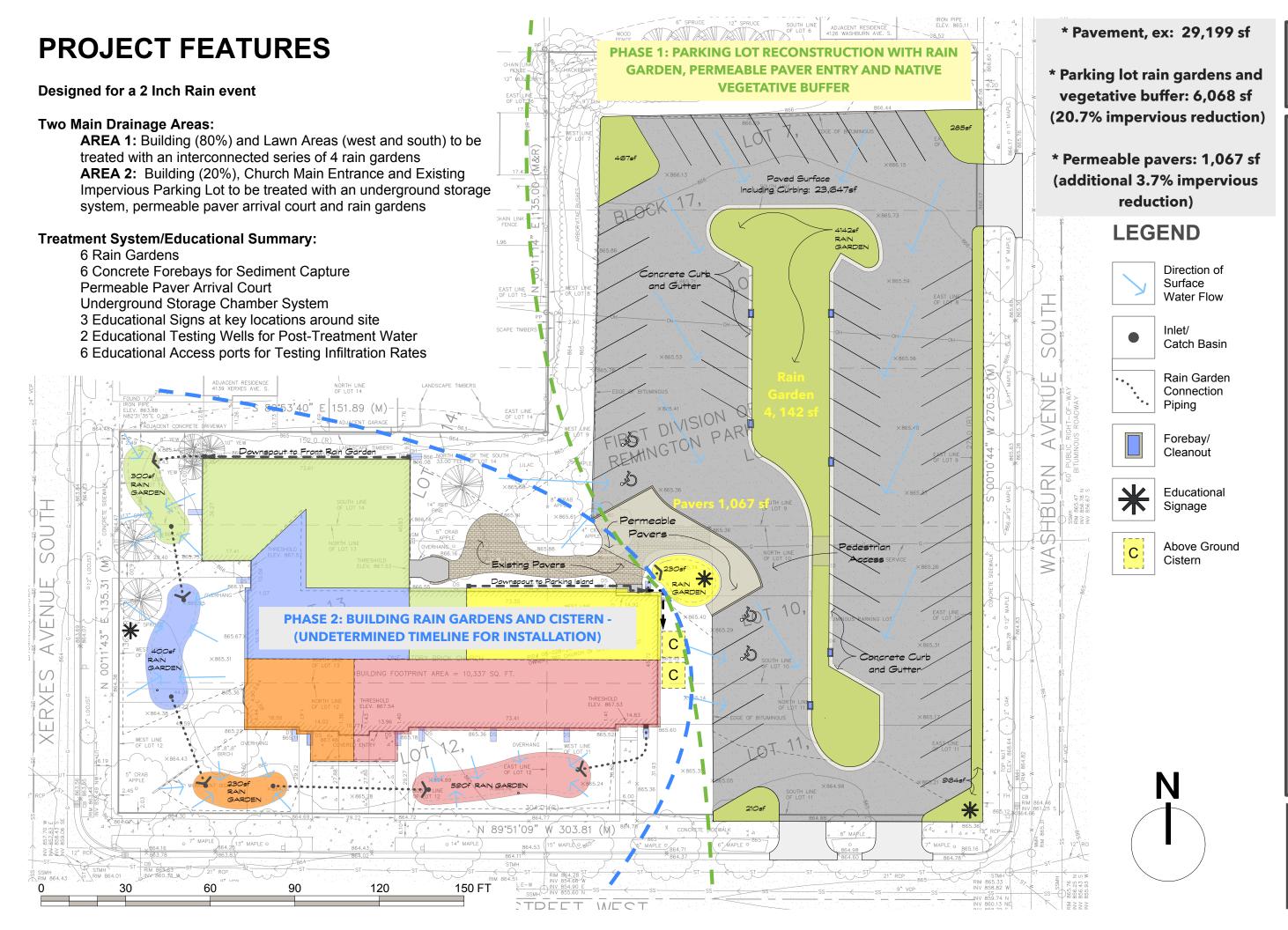
- Influence within Community
 - o Delineating who within the organization will execute education and outreach efforts
 - Partnerships
 - Schools, other organizations- establishing classroom curriculum around water quality education
 - Collaborations- working with other organizations on the same water quality project
 - o Community Capacity- Does the project encourage community involvement or service by local citizens?
- Outreach Techniques
 - o Educational Signage- Project specific/ Connections to other District Efforts
 - o Host an Event-utilizing partnerships to host an event that incorporates stormwater management awareness and creates a foundation for building community capacity to impact the problem of water pollution
 - o Innovative Outreach Techniques- Use of cutting edge technology, something we haven't funded before, first of its kind in the region/state, utilizing social media
- Visibility- How easily can passersby understand what the project is and how it works
- Leveraging other funds- is project utilizing other grant dollars or resources to accomplish project goals

Water Resource Prioritization - 10- 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 or education
- Protection of high value resource

Reporting- Required for Community Engagement projects

- 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
- o Opportunities for monitoring
- Inspection Report



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planning

design & p

& streams.

lakes

landscapes.

etrofit Minnesota ater Minneapolis, Stormw South, Avenue ATEI





Balancing Urban Development and Water Conservation

Client Name: Third Church of Christ, Scientist

Project Name: Third Church of Christ, Scientist: Stormwater Retrofit

Jobsite Address: 4147 Xerxes Avenue South Minneapolis, MN Billing Address: 4147 Xerxes Avenue South Minneapolis,

55410 MN 55410

Estimate ID: EST302439 **Date:** Mar 17, 2016

Parking Lot Retrofit \$106,770.75

The existing asphalt parking lot will be reclaimed. Some of this material will be stockpiled to allow for subcutting of underlying subsoils to alter the drainage flow pattern of the lot. Once the subgrade is established, the reclamings will be replaced as the base for the new asphalt parking lot. To control sediment entering the rain garden, perimeter curb gutter will be installed with six openings. These openings will have stone forebays constructed to capture sediment and will provide an easy visual inspection when cleanout is needed. The rain garden will be excavated approciately 18" with 12" of amended soils and both larger and smaller plantings.

1	Each	Reclaiming	\$4,894.33
1	Lump sum	Striping	\$917.69
1	Lump sum	Rental Equipment	\$1,468.30
168	Hours	BASE Crew - Reclaim, Subcut, Rough and Finish Grade	\$12,894.00
160	Hours	PAVE Crew	\$11,592.00
168	Hours	BASE FLEET	\$6,432.72
160	Hours	PAVE FLEET	\$11,131.20
180	Hours	Dumptruck - Tandem	\$5,000.40
90	Hours	Dumptruck - Triaxle	\$2,596.50
270	Hours	DRIVER Dumptruck	\$14,920.20
700	Tons	Dump - Asphalt, Concrete, Stone	\$3,892.00
200	Cubic Yards	Dump - Soil	\$2,224.00
500	Tons	Asphalt LV3	\$28,140.00
3	Weekly	Portable Bathroom	\$667.41

Rain Garden and Vegetative Buffer	\$115,852.23
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22 Hourly	Design - Elevations & Staking	\$1,884.30
470 Linear Feet	Concrete Curb/Gutter	\$10,983.90

Page 1 of 3

90	Hours	ITO - Trucking	\$9,910.80
1	Lump sum	Excavator	\$611.79
515	Hours	ECO Install Crew	\$33,990.00
28	Hours	ECO Planting Lead	\$1,719.20
68	Hours	ECO Planting Labor	\$2,697.56
515	Hours	ECO FLEET	\$26,409.20
320	Cubic Yards	Dump - Soil	\$3,558.40
2	Tons	Stone, wallstone - natural for forebays	\$859.44
28	Tons	Class V Base Aggregate (under Curbing)	\$513.80
270	СУ	Rain Garden Soil - 80/20 Blend (Sand/Compost)	\$8,259.30
41	СУ	Mulch, Double Shredded Hardwood	\$2,257.46
1	Lump sum	Plants, Large	\$5,035.77
1	Lump sum	Plants, Plugs	\$1,888.41
1	Lump sum	Plantings, Perimeter	\$3,776.82
6	Ea	Delivery	\$667.38
1	Ea	Delivery - Clam	\$278.09
1	Tons	Stone - Flagging for Forebay Bottom	\$550.61

Drop-off court entry of permeable pavers with under drain to rain garden. 18" excavation with 12" of 1.5" granite, 3" of 3/8" granite and standard permeable paver such as Interlock Eco.

Permeable Paver Entry

168	Hours	ECO Install Crew	\$11,088.00
1	Lump Sum	Rental Equipment	\$278.09
0.5	Weekly	Portable Bathroom	\$111.24
5	Hrs	Stacy - Project Layout and Supervise	\$444.95
168	Hours	ECO FLEET	\$8,615.04
87	Cubic Yards	Dump - Soil	\$967.44
80	Tons	Granite 1.5" Clear	\$3,551.20
24	Tons	Granite 3/8" Clear	\$998.40
1067	Square Feet	Paver, Permeable	\$5,729.79
0.33	Roll	Geotextile, Tensar Grid (or similar)	\$121.13
330	square yards	Geotextile, woven	\$132.00
1	Lump sum	Paver sealant	\$122.36
1067	Square foot	Credit for asphalt/labor install	-\$3,265.02
6	Ea	Delivery - \$150.00	\$1,071.18
40	Linear feet	Edging, paver restraint	\$90.00

\$32,258.20

Educationa	ıı Programmın	ig	\$5,000.0		
Design, suppliestudy.	es, installation o	f monitoring wells. Budget allowance for v	water quality testing and techni	cal advisor for 3	year monitoring
6	Hours	Design - Complimentary			\$0.00
4	Each	Monitoring Wells			\$400.00
3	Years	Budget for Testing (lab or equipment for science class)			\$2,100.00
1	Lump sum	Technical Advisor			\$1,500.00
20	Each	Earth Wizards' Rain Garden M	Manual		\$1,000.00
			:	Subtotal	\$259,881.18
				Taxes	\$74.98
			Estimo	Estimate Total	
Estimate autl	horized by:		Estimate approved by:		
		Company Representative		Customer	Representative
Signature Date:			Signature Date:		