

Minnehaha Creek Watershed District

REQUEST FOR BOARD ACTION

MEETING DATE: December 15, 2016

ITEM TYPE: Action Consent Discussion

TITLE: Authorization of Cost Share Funding – Standish Ericsson Alley Retrofit

RESOLUTION NUMBER: 16-083B

PREPARED BY: Telly Mamayek

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TELEPHONE: (952) 641-4508

REVIEWED BY: Administrator Counsel Program Mgr: Telly Mamayek
 Board Committee Engineer Other

WORKSHOP ACTION:

<input type="checkbox"/> Advance to Board mtg. Consent Agenda	<input type="checkbox"/> Advance to Board mtg. Consent Agenda with changes
<input type="checkbox"/> Advance to Board mtg. for more discussion	<input type="checkbox"/> Refer to a future workshop (date): _____
<input checked="" type="checkbox"/> Return to staff for additional work	<input type="checkbox"/> Refer to taskforce or committee (date): _____
<input type="checkbox"/> No further action requested.	<input type="checkbox"/> Advance to CAC mtg. for recommendation

PURPOSE or ACTION REQUESTED:

- 1) Authorize the administrator to execute and sign a cost-share funding and maintenance agreement for the Standish Ericsson Alley Retrofit, not to exceed \$40,000, contingent on staff approval of a project design that is mutually agreed upon by the grant recipients and District staff and signage requirements.

PROJECT/PROGRAM LOCATION:

District Wide

PROJECT TIMELINE:

Spring/Summer 2017

PROJECT/PROGRAM COST:

Fund name and number:	Cost Share Grant Program (4005)
Current grant budget:	\$436,597.59
Amount approved in 2016 to date:	\$163,402.41
Requested amount of funding:	Funding of the approved portion of documented costs of each of the project listed in the attached document, not to exceed a total of \$40,000.

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 fall non-

**DRAFT for discussion purposes only and subject to Board action and the availability of funds.
Resolutions are not final until approved by the Board and signed by the Board Secretary.**

homeowner deadline on September 26, 2016, staff received 7 cost share applications. One of the applicants withdrew his application, leaving three community engagement projects and three green infrastructure projects at a total project cost of \$353,534.

The six applications underwent a thorough review process before advancing to the CAC. They were reviewed by Education-Communications staff, the District engineer and a Staff/CAC subcommittee that included planning, project and land management, permitting and education staff. On November 9, 2016, the CAC recommended funding for six of the projects as presented, and changed the recommendation on 2 community engagement projects and 1 green infrastructure project. On December 8, 2016, the Board of Managers advanced five of the projects to the December 15, 2016 consent agenda, but asked staff to provide additional information on the Standish Ericsson Alley Retrofit which was recommended for \$40,000 in District funding.

In the attached memo, you will find a summary of the proposal and funding recommendation. An evaluation scoresheet and plan for the project are also attached. Additional information will be presented at the December 15 board meeting.

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 public and private property owners on land that we otherwise would not be able to implement projects on alone.

The following is a summary of the project’s education and outreach plan.

Standish Ericsson Alley Retrofit:

- Educational signage
- Local school groups will be monitoring the progress of the pavers and learning about stormwater management
- A dedicated page on the Metro Blooms website will track the project’s progress
- Results will be shared on social media and in newsletters
- Results will be reported to the City of Minneapolis in an effort to encourage policy change

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. District staff will utilize the project in outreach to highlight the work the District is helping fund in the community.

WATER QUALITY IMPROVEMENT:

The District Engineer has analyzed all of the proposed projects to identify the water quality improvement of each of these projects.

The following table shows the pollutant reductions for the project:

Total number of projects approved:	1
Total number of BMPs and shorelines installed:	1
Total cost for construction of these BMPs:	\$ 98,150
Total MCWD cost share funding contribution:	\$ 40,000
Annual Volume reduction:	46,125 cf

Annual Total Suspended Solids reduction: 391 lbs
Annual Phosphorus reduction: 0.9 lbs

STAFF RECOMMENDATION

The applicant listed in the attached document has applied for funding for their project 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. Memo-12-12-16-Standish Ericsson Alley Retrofit
2. Project Plan and Evaluation-Standish Ericsson Alley Retrofit

RESOLUTION

RESOLUTION NUMBER: 16-083B

TITLE: Authorization of Cost Share Funding – Standish Ericsson Alley Retrofit

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, Metro Blooms has submitted a proposal for cost-share funding for the construction of stormwater best management practices,

WHEREAS, the MCWD 2016 budget includes funds for the Cost Share Program which has \$436,597.59 currently available; and

WHEREAS, the proposal was reviewed by the Citizens Advisory Committee (CAC) on November 9, 2016, and the CAC has recommended approving the proposal and funding in the amount requested; and

WHEREAS, a summary of the approved project and funding amount was included in the December 8 and 15, 2016 Board of Managers meeting packet information; and

WHEREAS, MCWD staff has reviewed the proposal and the CAC’s comments and recommendations, and finds the proposal to be consistent with the goals of the Cost Share Program and recommends funding the approved portion of the documented costs of the project, not to exceed \$40,000, contingent on a signed grant and maintenance agreement that includes a project design plan that is mutually agreed upon by the applicant and District staff in each case and signage requirements, and

NOW, THEREFORE, BE IT RESOLVED, that the MCWD Board of Managers authorizes the administrator to sign, on advice and consent of counsel, a cost-share funding and maintenance agreement with Metro Blooms for documented costs not exceed \$40,000, contingent on staff approval of a final project design and signage.

Resolution Number 16-083B was moved by Manager _____, seconded by Manager _____.
Motion to adopt the resolution ___ ayes, ___ nays, ___ abstentions. Date: _____.

Secretary Date: _____



MEMORANDUM

DATE: December 12, 2016

TO: MCWD Board of Managers

FROM: Telly Mamayek, Director of Communications and Education

RE: RBA 16-083B Authorization of Cost Share Funding – Standish Ericsson Alley Retrofit

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:	\$163,402.41
Requested Amount:	\$ 40,000

COST SHARE APPLICATIONS

Metro Blooms’ application for the Standish Ericsson Alley Retrofit project was among six applicants for cost share funding from the District for non-homeowner projects during the fall of 2016. At the December 8, 2016 Board of Managers meeting, staff was directed to come back with additional information about the project. Staff plans to present that additional information at the December 15 meeting.

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 received 7 cost share applications by the fall deadline, however, 1 applicant withdrew his application leaving 3 community engagement projects and 3 green infrastructure projects requesting a total of \$261,824 in funding.

The newly adopted program schedule includes a thorough review process. That process was amended, somewhat, for the fall funding round by the departure of the Cost Share Grant Administrator in September. The review process for the fall round included an evaluation of each project by staff and the District engineer and by a CAC/staff subcommittee (made of planning, project and land management, permitting and education/communications staff) that provided recommendations to the CAC. The CAC reviewed and recommended funding 6 projects, changing the staff recommendation on three of them (Big Island, Inc., Greensboro Condominiums, Standish Ericsson Alley Retrofit).

We collaborate with public and private partners to protect and improve land and water for current and future generations.

In this memo, you will find a summary of the proposal to be considered for Board funding approval, and the current funding recommendation. The project evaluation scoresheet and the main project plans are also attached. Additional information that was requested will be presented at the December 15 Board of Managers meeting.

Standish Ericsson Alley Retrofit, 3800-block 21st Ave. S., Minneapolis

A group of five homeowners are working with Metro Blooms to implement pervious pavement and an associated monitoring system in a privately-owned Minneapolis alleyway (spanning 10 residential properties) located in the Hiawatha subwatershed. The pervious alleyway will be one of the first in the SENA neighborhood and will help influence policy change which would allow more permeable paver alleys in Minneapolis and across the Twin Cities.

This project aims to reduce flooding by retro-fitting an alleyway with permeable pavement and a stormwater monitoring system. The two-year monitoring plan was developed by the U of M’s St. Anthony Falls Laboratory and partially funded by Hennepin County. The project will capture runoff from 19,143 square feet of impervious surface and remove 0.9 lbs of phosphorus per year.

The project is in the subwatershed of Lake Hiawatha, which is an impaired waterbody. It complements other District initiatives in the area including the Nokomis Blooming Alleys, work with the newly established Friends of Lake Hiawatha, and the District’s work in the Minnehaha Creek focal geography. For education and outreach, the plan highlights that a sign will be installed on one of the properties closest to the street with the target audience – pedestrian traffic. Monitoring results will be shared with the City of Minneapolis. They will also be shared with partners and on the metroblooms.org website and social media, and newsletter. Other education and outreach activities include tours to interested groups and outreach to local school groups that will be monitoring the performance of the pavers.

The total project cost is \$98,150. The Staff and CAC Subcommittee recommended 75% funding of the requested amount (\$40,000), not to exceed \$30,000. The CAC recommends 41% funding of the total project cost, not to exceed \$40,000.

Project Name	Score (_/100)	Project Cost	Recommended Funding	Suggested Funding	Project Type
Standish Ericsson Alley Retrofit	82	\$ 98,150	\$ 40,000	75% (41%)	Community Engagement

We collaborate with public and private partners to protect and improve land and water for current and future generations.



Cost Share Grant Evaluation Form
Community Engagement Grant

Name of Reviewer: Darren Lochner and Erik Megow (Wenck)
 Date Reviewed: 10-24-16
 CAC-Staff Subcommittee Review: 11-1-16

Applicant: Metro Blooms

Project: Standish Ericcson Alley Retrofit

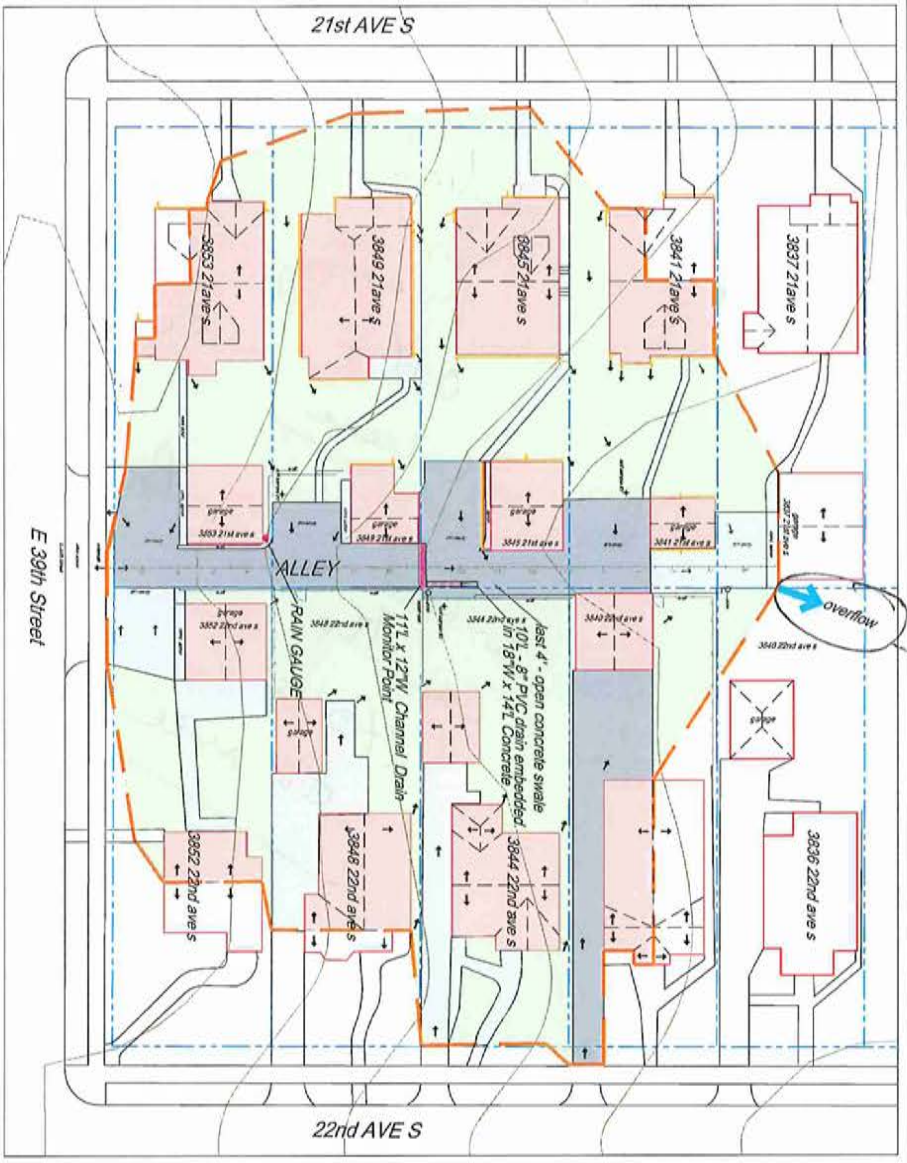
Total Project Budget: \$98,150

Requested Funding: \$40,000 (leveraged by \$40,000 Hennepin County grant; \$15,000 homeowner match)

Community Engagement Grant: 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: Neighborhood Association, non-profit		
Are the Goals of Project Clearly Outlined? Yes. Implementation of pervious pavement and monitoring system in a privately-owned Minneapolis alleyway (spanning 10 residential properties) located in the Hiawatha subwatershed.		
Past History: Has the applicant applied before? Metro Blooms has applied for other projects in the past, this is the first in the SENA neighborhood		
<i>Project Design (30pts)</i>		
Notes: This project aims to reduce flooding by retro-fitting an alleyway with permeable pavement and a stormwater monitoring system. Working with Metro Blooms, five homeowners are working together to create one of the first permeable alleyways in Minneapolis and will actively monitor its benefits. The monitoring plan was developed by the U of M's St. Anthony Falls Laboratory. The project will capture runoff from 19,143 square feet of impervious surface, provide TSS and phosphorus benefits, including .9 lbs of phosphorus removal per year, while also alleviating local flooding issues.	8/10	Water Resource Improvement to MCWD
	5/5	Innovative Design
	5/5	Budget Detail
	10/10	Maintenance Plan
	Project Design Total: 28 /30	
<i>Education & Outreach (60 pts)</i>		
Notes: The plan highlights that a sign will be installed on one of the properties closest to the street with the target audience – pedestrian traffic. Monitoring results will be shared with the City of Minneapolis. It also will be shared with partners and on the metroblooms.org website and social media, and newsletter. Other education and outreach activities include tours to interested groups and outreach to local school groups.	16/20	Influence within Community
	18/25	Outreach Techniques
	5/10	Visibility of Demonstration
	5/5	Leveraging Other Grant Funds
Education and Outreach Total: 44/60		
<i>Water Resource Prioritization (10 pts)</i>		
Notes: The project area drains to Lake Hiawatha, which is an impaired waterbody. It complements other District initiatives in the area including the Nokomis Blooming Alleys, work with the newly established Friends of Lake Hiawatha, and the District's work in the Minnehaha Creek focal geography.	10/10	Alignment with District Priorities
Water Resource Prioritization Total: 10 /10		

Total: 82 /100



LEGEND

- ASPHALT
- CONCRETE
- BUILDING ROOF
- FLOW DIRECTION
- GREEN SPACE
- ALLEY SHED
- CATCHMENT OUTFLOW
- GUTTER AND DOWNSPOUT
- PROPERTY LINE (APPROXIMATE)

GRAPHIC SCALE

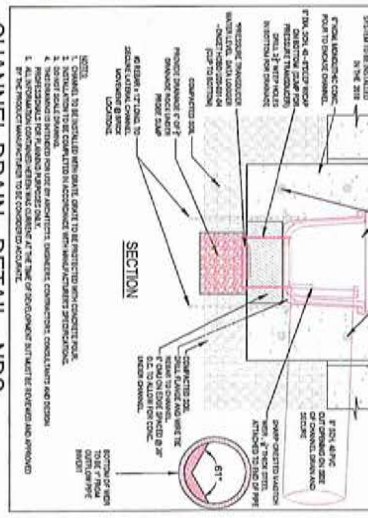
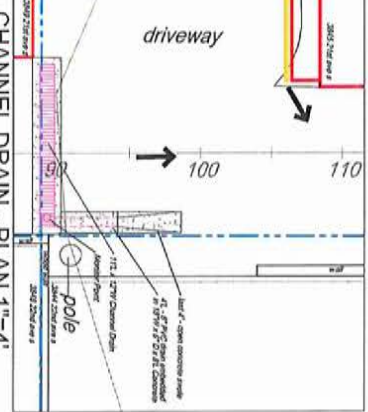
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1" = 10'

AREA TABLE

alley/shed	37,072 sf	.851 ac
house/garage disconnected	9,913 sf	.228 ac
garage connected	944 sf	.022 ac
drives disconnected	3,004 sf	.069 ac
drives connected + alley	4,509 sf	.104 ac
walks disconnected	944 sf	.022 ac
lawn	17,758 sf	.408 ac
total impervious =	19,314 sf	.52,1%

Runoff in a 1.27" rain event = 1,493 cf = 11,168 gal
 Runoff in an average year = 34,056 cf = 255,038 gal
 * stormwater modeled using WILSWM v.10.0



- NOTES:**
- AREAS, LOCATIONS OF STRUCTURES AND SURFACE FEATURES ARE APPROXIMATE AS DETERMINED FROM AERIAL PHOTOGRAPHS, SITE PHOTOGRAPHS AND FIELD MEASUREMENTS.
 - CONTRACTOR RESPONSIBLE FOR LOCATING PROPERTY LINES AND UTILITIES.
- BID NOTES:**
- CONTRACTORS TO PROVIDE BIDS FOR THE FOLLOWING:
 - TRENCH DRAIN, DRAIN SYSTEM, RAIN GAUGE (ONSET HOBO RG3) AND MONITOR HARDWARE AS DETAILED BELOW (INSTALL IN APRIL OF 2017)
 - BASE BID AND/OR ALT BIDS (INSTALL APRIL OF 2018)
 - BASE BID - DEMO DRIVEWAYS AND REPLACE WITH NEW 3" BITUMINOUS. (SEPARATE BIDS BY ADDRESS)
 - ALT BID 1 - DEMO DRIVEWAYS AND REPLACE WITH NEW 3" BITUMINOUS. (SEPARATE BIDS BY ADDRESS)
 - ALT BID 2 - DEMO DRIVEWAY AND REPLACE WITH NEW PAVEDRAIN, 6-INCHES OF 3/4"-1" CLEAN STONE ONLY. NO 2-3" STONE NECESSARY (SEPARATE BIDS BY ADDRESS)
 - ALL CONTRACTS TO BE COMPLETE BY DECEMBER OF 2018

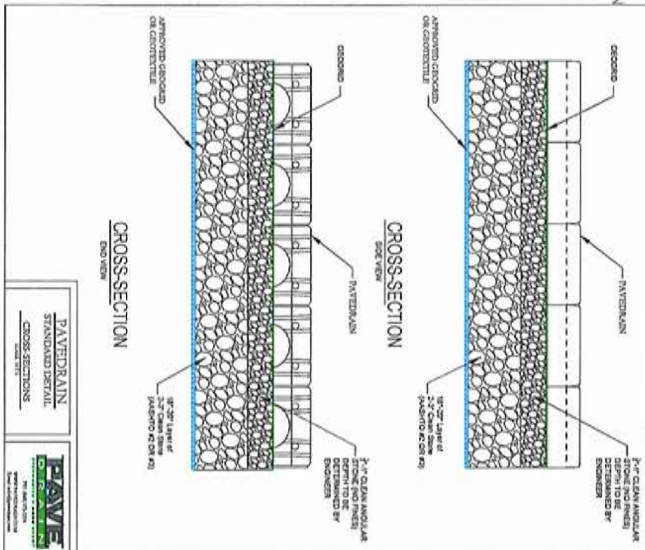
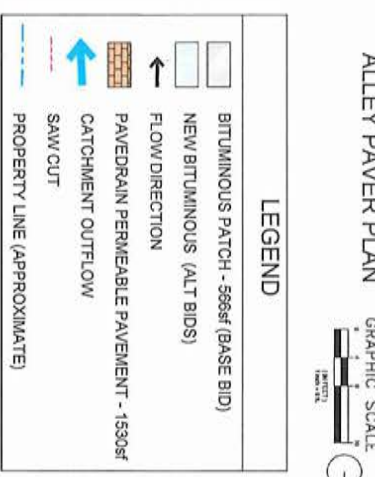
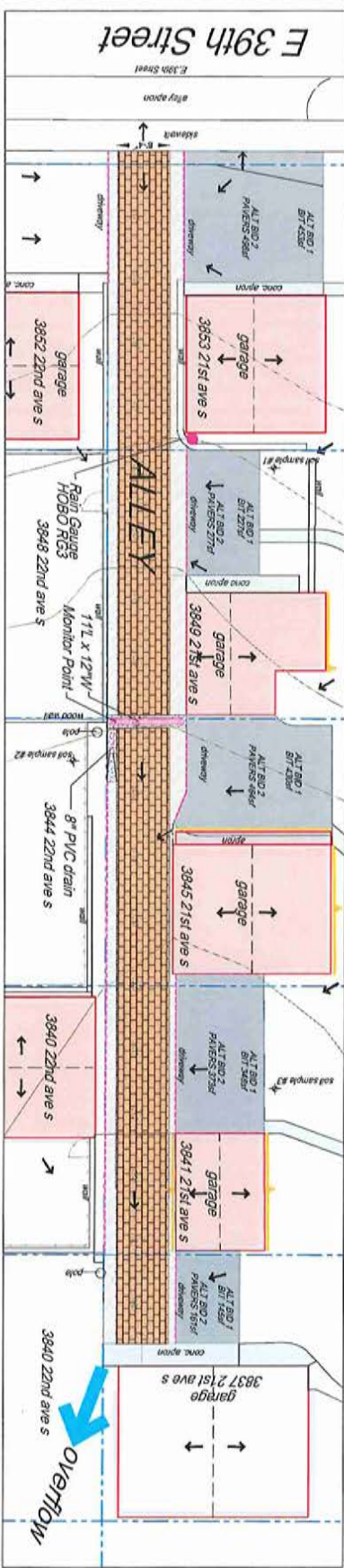
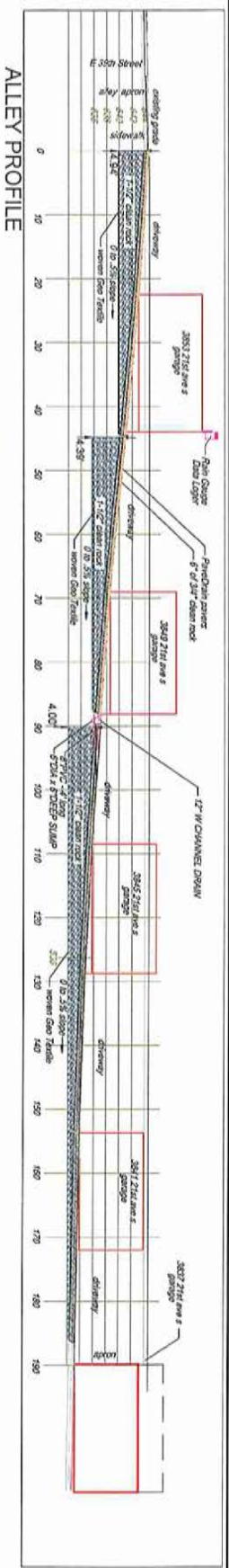
NDS
 WE PUT WATER IN ITS PLACE

11111 12TH CHANNEL DRAIN
 RAIN GAUGE
 Monitor Point

11.4" x 12" W/ Channel Drain

last 4" - open concrete swale
 101" - 8" PVC drain embedded
 in 18" W/ x 14" L Concrete

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NOTES:
 AREAS, LOCATIONS OF STRUCTURES AND SURFACE FEATURES ARE APPROXIMATE AS DETERMINED FROM AERIAL PHOTOGRAPHS, SITE PHOTOGRAPHS AND FIELD MEASUREMENTS.
 CONTRACTOR RESPONSIBLE FOR LOCATING PROPERTY LINES AND UTILITIES.

BID NOTES:
 CONTRACTORS TO PROVIDE BIDS FOR THE FOLLOWING:

1. TRENCH DRAIN, DRAIN SYSTEM, RAIN GAUGE (ONSET HOBO RG3) AND MONITOR HARDWARE AS DETAILED BELOW (INSTALL IN APRIL OF 2017)
2. BASE BID AND/OR ALT BIDS (INSTALL APRIL OF 2018)
- 2.1. BASE BID - DEMOLITION OF ALLEY (REMOVAL OF EXISTING BITUMINOUS SURFACE AND ALL SUB SURFACE MATERIAL TO ALLOW FOR THE INSTALLATION OF A NEW PERMEABLE PAVEMENT PAVEDRAIN SYSTEM.
- 2.1. BASE BID - INSTALLATION OF A PAVEDRAIN SYSTEM AS DETAILED ON SHEET L2 (HAND METHOD), TO INCLUDE BITUMINOUS PATCH TO SAW CUT.
3. ALT BID 1 - DEMO DRIVEWAYS AND REPLACE WITH NEW 3\"/>
4. ALT BID 2 - DEMO DRIVEWAY AND REPLACE WITH NEW PAVEDRAIN, 6-INCHES OF 3/4\"/>
5. ALL CONTRACTS TO BE COMPLETE BY DECEMBER OF 2018



Metro Blooms
 PO Box 17098
 Minneapolis, MN 55417
 651-896-2426

Standish Ericsson
 Alley Project

NO.	DATE	DESCRIPTION
1	08/01/17	ISSUED FOR BIDDING
2	08/01/17	ISSUED FOR BIDDING
3	08/01/17	ISSUED FOR BIDDING
4	08/01/17	ISSUED FOR BIDDING
5	08/01/17	ISSUED FOR BIDDING
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