

COUNCIL ACTION FORM

SUBJECT: CAMPUSTOWN PUBLIC IMPROVEMENTS (WELCH AVENUE) WATER QUALITY INITIATIVE FUNDING AGREEMENT WITH IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP

BACKGROUND:

The City of Ames has been awarded a grant in the amount of \$100,000 through a competitive application process administered by the Iowa Department of Agriculture and Land Stewardship (IDALS). This agreement is through the Water Quality Initiative Urban Conservation Demonstration Project Program. This program was established in order to assess and reduce nutrients in the state's watersheds, including sub-watersheds and regional watersheds, with the goal of establishing and administering projects to reduce nutrients in surface waters from non-point sources in a scientific, reasonable, and cost-effective manner. **This grant applies to the Campustown Public Improvements Project (Welch Avenue).**

The City of Ames plans to incorporate stormwater quality BMPs (Bioretention Cells/Tree Trenches w/ permeable pavers) to capture runoff draining to and from the sidewalks, staying committed to support of, and leadership in, improving and protecting water quality. As part of the outreach efforts for Welch Avenue improvements, the public interest survey results showed that some trees are desired with a preference for in-ground plantings that provide water quality benefit.

Revenue for this project totals \$1,750,000 from the following sources: \$100,000 Road Use Tax, \$1,000,000 GO Bonds, \$425,000 Water Utility Funds, \$125,000 Sewer Utility Funds, and \$100,000 in Electric Utility Funds. The budget reflects \$260,000 for engineering/construction administration and \$1,490,000 for construction.

ALTERNATIVES:

1. Approve the Water Quality Initiative Urban Conservation Demonstration Project funding Agreement with Iowa Department of Agriculture and Land Stewardship for the Campustown Public Improvements (Welch Avenue) in the amount of \$100,000.
2. Reject the Agreement.

MANAGER'S RECOMMENDED ACTION:

Approval of this agreement with IDALS must happen before moving forward with construction of this project in the 2019/20 construction season.

Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1, as noted above.

WATER QUALITY INITIATIVE
Urban Conservation Demonstration Projects

CONTRACT NUMBER:	Urban19WQI-001
Project Name:	Campustown Public Improvement Project: Welch Avenue
Contract Effective Date:	April 1, 2019
Project Completion Date:	June 30, 2020
Award Amount:	\$100,000.00

COST-SHARE GRANT CONTRACT (“Contract”)

BETWEEN IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP
(IDALS)
Wallace State Office Building
502 East 9th St.
Des Moines, Iowa 50319

IDALS Contact Person: Will Myers Phone: (515) 725-1037

AND City of Ames (“GRANTEE”)
515 Clark Avenue
Ames, IA 50010

Grantee Contact Person: Tracy Warner Phone: (515) 239-5610

Grantee ID Number: (federal identification #): 42-6004218

WHEREAS, pursuant to Iowa Code section 466B.42, the Water Quality Initiative Program was established in order to assess and reduce nutrients in the state’s watersheds, including subwatersheds and regional watersheds, with the goal of establishing and administering projects to reduce nutrients in surface waters from nonpoint sources in a scientific, reasonable, and cost-effective manner; and,

WHEREAS, Grantee has submitted an application to the Iowa Department of Agriculture and Land Stewardship requesting assistance to help finance such a project; and,

WHEREAS, IDALS has determined Grantee’s proposed project meets the requirements established for participation in the Water Quality Initiative Program.

NOW, THEREFORE, in consideration of the mutual promises, covenants, and contracts contained herein, IDALS and Grantee agree as follows:

SECTION 1. PROJECT

“*Project*” means the detailed description of the work, services, budget and other obligations to be performed or accomplished by the Grantee as described in its Water Quality Initiative Program Application, as approved by IDALS and incorporated as Exhibit A to this Contract.

SECTION 2. PROJECT COMPLETION DEADLINE

The Project must be completed no later than **June 30, 2020**. An extension may be granted by IDALS, through an amendment, if a written request showing demonstrable progress toward completion of the Project is submitted and IDALS determines such an extension is warranted. Any extension request submitted by the Grantee must be received by IDALS no later than 30 days prior to expiration of this contract.

SECTION 3. DURATION OF COST-SHARE GRANT CONTRACT

3.1 This Contract shall become effective on the Contract Effective Date and shall remain in effect as follows:

- a) *Through Project Period Completion Date.* Through the Project Period Completion Date and for the period of time after Project Completion Date during which IDALS, or its designee, conducts Project closeout procedures to verify that the Project has been completed in compliance with the Contract.
- b) *Until Repayment or Satisfaction of Outstanding Obligation.* Until all outstanding amounts due to IDALS, if any, are received by IDALS, or all outstanding obligations to IDALS are satisfied in full.
- c) *Through Contract End Date.* Until IDALS, or its designee, has completed Contract closeout procedures and provided Grantee with written Notice of Final Contract Closeout. This Contract shall terminate as of the date stated in the written Notice of Final Contract Closeout; such date shall be the Contract End Date.

3.2 SURVIVAL OF OBLIGATIONS. Section 3.1 shall not abrogate or otherwise effect the obligations, terms, and conditions that survive beyond the Contract End Date, including but not limited to the following sections of this Contract: Section 4.4 (Accounting Records), Section 4.5 (Documentation), and Section 4.6 (Conveyance of Project Property).

SECTION 4. TERMS OF CONTRACT

4.1 GRANT. IDALS shall provide a Grant to Grantee up to the Award Amount stated on page 1 of this Contract in order to assist in financing the Project, subject to Iowa Code chapter 466B, IDALS administrative rules (located at 27 Iowa Admin. Code chapter 16), and the terms and conditions of this Contract. A copy of Grantee's Application describing the Project is an integral part of this Contract and is marked as Exhibit A and hereby incorporated herein.

4.2 MAXIMUM PAYMENTS. It is expressly understood and agreed that the maximum amounts to be paid to the Grantee by IDALS for Project activities shall conform to the budget as

presented in Contract Exhibit B - Project Budget. It is further understood and agreed that the total of all payments to the Grantee by IDALS for Project activities shall not exceed the Award Amount unless modified by written amendment of this Contract.

4.3 USE OF FUNDS. The Grantee hereby agrees to construct and operate the Project as described in its Application Exhibit A, as approved by IDALS, and Exhibit B, Project Budget. Grantee shall maintain the Project in accordance with the representations in Exhibits A and B during the term of this Contract. Grantee shall allow IDALS, its internal or external auditors, the Auditor of the State of Iowa, the Treasurer of the State of Iowa, the Attorney General of the State of Iowa, and the Iowa Division of Criminal Investigation, to inspect the Project facilities at all reasonable times in order to monitor and evaluate performance with the terms of this Contract and Iowa law.

4.4 ACCOUNTING RECORDS. Grantee shall maintain its books, records and all other evidence pertaining to this Contract in accordance with generally accepted accounting principles and such other procedures as may be specified by IDALS. These records shall be available to IDALS, its internal or external auditors, the Auditor of the State of Iowa, the Treasurer of the State of Iowa, the Attorney General of the State of Iowa, and the Iowa Division of Criminal Investigation, at all times during the duration of this Contract and any extension thereof, and for three (3) full years following the Contract End Date.

4.5 DOCUMENTATION. Within 10 days of receipt of a written request from IDALS, Grantee shall deliver to IDALS: (i) copies of all contracts or documents relating to the Project; (ii) copies of all invoices, receipts, statements or vouchers relating to the Project; (iii) a list of all unpaid bills in connection with the Project; and, (iv) budgets and revisions showing estimated Project costs and funds required at any given time to complete and pay for the Project. Grantee shall be bound by this requirement from the Effective Date to a date three (3) full years following the Contract End Date.

4.6 CONVEYANCE OF PROJECT PROPERTY. Between the Effective Date and a date three (3) full years following the Contract End Date, Grantee shall not sell, transfer, convey, assign, encumber or otherwise dispose of any portion of the Project property as described in Exhibit A without express written permission of IDALS, which permission may be withheld in the sole discretion of IDALS.

4.7 INDEPENDENT CONTRACTOR. Grantee's status shall be that of an independent contractor. Neither the contractor, its employees, agents, or any subcontractors performing work or services for the contractor are, or shall be deemed to be, employees or agents of the State of Iowa, and shall not be considered employees of IDALS or the State of Iowa for federal or state tax purposes. IDALS shall not withhold taxes on behalf of the contractor unless required to do so by law.

4.8 USE OF THIRD PARTIES. IDALS acknowledges that Grantee may contract with third parties for the performance of any of the Grantee's obligations under this Contract. All subcontracts shall be subject to prior approval by IDALS. Grantee may enter into such contracts to complete the Project provided that Grantee remains responsible for all services performed under this Contract. All restrictions, obligations and responsibilities of the Grantee under this Contract shall apply to any subcontractors retained by Grantee. IDALS shall have the right to request the removal of any subcontractor from the Project for good cause. Subcontracts shall be submitted to IDALS for

approval before entry into force and effect.

4.9 AWARD AMOUNT, TYPE. This is a cost-share grant award in the amount of \$100,000.00

4.10 USE OF LOGOS AND SIGNAGE. The Grantee will be required to include the CleanwaterIowa.org and the IDALS logo in any marketing and outreach materials developed in conjunction with the project and funded either with grant proceeds or with matching funds.

4.11 STANDARDS AND SPECIFICATIONS. The practices installed shall comply with Iowa Stormwater Management Manual (ISWMM) standards and specifications or with USDA Natural Resources Conservation Service (NRCS) Standards and Specifications, where available.

Practice plans and designs must be approved by an Urban Conservationist assigned by IDALS following the project review and implementation guidelines established in the Water Quality Initiative Milestone Checklist prior to proceeding with design finalization or any associated construction activities.

All practices installed with WQI funds will be subject to IDALS maintenance agreement requirements to ensure the respective practice(s) will be maintained through its anticipated lifespan. Agreement durations and requirements are practice specific and should be discussed with the Urban Conservationist assigned by IDALS.

4.12 PROJECT REPORTING AND TRAINING REQUIREMENTS. A representative of the Grantee will be required to attend any IDALS identified training events and/or meetings. IDALS will provide sufficient notification of required training sessions.

In addition, the Grantee is required to submit progress reports periodically during the project to document activities and progress in conformance with printed report guidance provided by IDALS.

Any failure by a grantee to meet established deadlines for submission of progress reports will result in immediate suspension of all disbursement of funds to the Grantee, including advance requests and all reimbursements. This suspension will continue until receipt by IDALS of all outstanding reports associated with this Contract.

Specifically, Grantee is required to:

- a) Provide IDALS with quarterly progress reports within fifteen (15) days after the end of each quarterly reporting period.
- b) Provide a comprehensive final report in conformance with the printed report guidance provided by IDALS, within 30 days of conclusion of the project.

SECTION 5. RELEASE AND DISBURSEMENT OF FUNDS

5.1 CONDITIONS FOR RELEASE OF FUNDS. No funds shall be released for disbursement until this Contract has been executed and the Grantee has properly completed each of the following items:

- a) Attendance by at least one representative of the applicant at program orientation offered by IDALS staff.
- b) Completion and submission of form “W-9, Request for Taxpayer Identification Number and Certification.”
- c) Evidence, acceptable to IDALS or its designee, that acceptable accounting policies and procedures are in place within 90 days of contract execution by all parties.

5.2 REQUESTS FOR DISBURSEMENT. All disbursements of proceeds shall be subject to receipt by IDALS of requests for disbursement submitted by Grantee. Requests for disbursement shall be in a form and content acceptable to IDALS.

Grantee or its designee shall request disbursement by submitting to IDALS or its designee the request form provided by IDALS (as the same may be modified from time to time by IDALS), which request form shall itemize Grantee's total allowable expenses, if any. Expenses shall be documented in a manner acceptable to IDALS or its designee.

IDALS or its designee shall review the request and, if acceptable to IDALS or its designee, make the appropriate disbursement from the *Water Quality Initiative* Fund.

The disbursement authorized by IDALS or its designee will be limited to the expected allowable expenses for the relevant period. Major budget category Practice Costs may deviate by ten (10) percent by line item without prior approval of the Division, but total expenditures shall not exceed the total budget amount provided in the project contract.

5.3 SUSPENSION OF DISBURSEMENT. Upon the occurrence of an Event of Default (as defined in this Contract) by Grantee, IDALS or its designee may suspend payments to Grantee until such time as the default has been cured to IDALS’ satisfaction. Notwithstanding anything to the contrary in this Contract, upon a termination of this Contract on account of an Event of Default by the Grantee, Grantee shall no longer have the right to receive any disbursements after the date of the Event of Default.

5.4 INVESTMENT OF GRANT FUNDS. In the event grant funds are not immediately utilized, temporarily idle grant funds held by Grantee may be invested, provided such investments shall be in accordance with State law, including but not limited to the provisions of Iowa Code chapter 12C concerning the deposit of public funds. Interest accrued on temporarily idle grant funds held by the Grantee shall be credited to and expended on the Project prior to the expenditure of other grant proceeds.

All proceeds remaining, including accrued interest, after all allowable Project costs have been paid or obligated shall be returned to IDALS within thirty (30) days following the Project Completion Date. Within ten (10) days of receipt of a written request from IDALS, Grantee shall inform IDALS in writing of the amount of unexpended grant funds in Grantee's possession or under the Grantee's control, whether in the form of cash on hand, investments, or otherwise.

5.5 USE OF GRANT FUNDS FOR EQUIPMENT AND NON-CONSUMABLE SUPPLIES. The use of grant funds through this contract is permitted for the purchase of equipment and non-consumable supplies, subject to all of the following conditions:

- a) All purchases for which reimbursement will be requested must be approved by IDALS prior to any expense being incurred by Grantee. Failure to adhere to this condition will result in

forfeiture of all claims for reimbursement for the item(s) in question.

- b) In no instance will the reimbursement rate for an item purchased in this category exceed fifty percent (50%) of the documented cost of the item. Furthermore, no other source of state funding may be used to provide the non-IDALS share of expense for the item.
- c) If at any point prior to completion of the project, a piece of equipment or non-consumable supply item is sold, liquidated, or transferred for use outside of the project, full and immediate repayment of grant proceeds used to purchase the item by the Grantee to IDALS will be required.
- d) Recurring expenses associated with operation and maintenance of such equipment shall be the sole responsibility of the Grantee.

SECTION 6. REPRESENTATIONS AND WARRANTIES

Grantee represents and warrants to IDALS as follows:

6.1 Grantee is duly organized, validly existing and in good standing as a recognized legal entity under Iowa law. Grantee has full and adequate power to own its property and conduct its business as now conducted, and is duly licensed or qualified and in good standing in each jurisdiction in which the nature of the business conducted by it or the nature of the property owned or leased by it requires such licensing or qualifying.

6.2 Grantee has full right and authority to enter into this Contract and the person signing this Contract on behalf of Grantee has full authority to do so.

6.3 Grantee hereby agrees to use Award proceeds only for the Project and the activities described in the approved Water Quality Initiative Application.

6.4 The Application furnished to IDALS by Grantee does not contain any untrue statements of a material fact or omit a material fact.

6.5 Grantee has received all licenses, permits, and approvals of all Federal, state, local, and foreign governmental authorities, if any, necessary to conduct its businesses; no investigation or proceeding which, if adversely determined, could reasonably be expected to result in revocation or denial of any material license, permit, or approval is pending or, to the knowledge of the Grantee threatened.

6.6 Grantee shall complete the Project by the Project Completion Date.

6.7 All financial statements and related materials concerning the Grantee and the Project provided to IDALS are true and correct in all material respects and completely and accurately represent the subject matter thereof as of the Effective Date of the statements and related materials, and no material adverse change has occurred since that date.

SECTION 7. DEFAULT

7.1 EVENTS OF DEFAULT. The occurrence of any one or more of the following events shall constitute cause for IDALS to declare Grantee in default of its obligations under this Contract: (i) a failure of Grantee to complete the Project by the Project Completion Date; (ii) a breach of any other term of this Contract.

7.2 NOTICE OF DEFAULT, REMEDIES. When IDALS determines that an Event of Default has occurred and is continuing, IDALS may, by written notice to Grantee: (i) terminate this Grant Contract and all obligations of IDALS under the Contract as of the date stated in such notice, and (ii) declare the full amount of Award funds, disbursed, immediately due and payable. Grantee agrees to pay to IDALS all expenses reasonably incurred or paid by IDALS, including reasonable attorneys' fees and court costs, in connection with the enforcement of any of the terms of this Grant Contract.

7.3 REPAYMENT OR PENALTY. Upon the happening of any Event of Default, IDALS reserves the right to terminate this Contract and to require immediate repayment of the full amount of funds disbursed to Grantee under this Contract.

SECTION 8. TERMINATION

8.1 TERMINATION UPON NOTICE. Following ten (10) days' written notice, IDALS may terminate this contract in whole or in part without payment of any penalty or the incurring of any further obligation to the Grantee. Following termination upon notice, Grantee shall be entitled to compensation, upon submission of invoices and proper proof of claim, for services provided under this Contract to IDALS up to and including the date of termination.

8.2 NON-APPROPRIATION. Notwithstanding anything in this contract to the contrary, and subject to the limitations, conditions and procedures set forth below, IDALS shall have the right to terminate this contract without penalty by giving thirty (30) days written notice to the Grantee as a result of any of the following: (1) the legislature or governor fail to appropriate funds sufficient to allow IDALS to operate as required and to fulfill its obligations under this contract; (2) if funds are de-appropriated or not allocated; (3) if IDALS' authorization to operate is withdrawn or there is a material alteration in the programs administered by IDALS; and (4) if IDALS' duties are substantially modified. In the event of termination of this Contract due to non-appropriation, the exclusive, sole, and complete remedy of the Grantee shall be payment for services completed prior to termination.

8.3 REMEDIES OF THE GRANTEE IN EVENT OF TERMINATION BY IDALS. In the event of termination of this Contract for any reason by IDALS, IDALS shall pay only those amounts, if any, due and owing to the Grantee for services actually rendered up to and including the date of termination of the Contract and for which IDALS is obligated to pay pursuant to this Contract. Payment will be made only upon submission of invoices and proper proof of the Grantee's claim. This provision in no way limits the remedies available to IDALS under this Contract in the event of termination.

8.4 THE GRANTEE'S TERMINATION DUTIES. The Grantee, upon receipt of notice of termination or upon request of IDALS, shall:

8.4.1 Cease work under this Contract and take all necessary or appropriate steps to limit disbursements and minimize costs, and furnish a report within thirty (30) days of the date of notice of termination, describing the status of all work under the Contract, including, without limitation,

results accomplished, conclusions resulting therefrom, any other matters IDALS may require.

8.4.2 Comply with the IDALS's instructions for the timely transfer of any active files and work product produced by the Grantee under this Contract.

8.4.3 Immediately return to IDALS any payments made by IDALS for services that were not rendered by Grantee.

SECTION 9. CONFLICT OF INTEREST

Grantee represents, warrants, and covenants that no relationship exists or will exist during the Contract period between IDALS and Grantee that is a conflict of interest. No employee, officer or agent of Grantee shall participate in the selection or the award or administration of a subcontract if a conflict of interest, real or apparent, exists. The provisions of Iowa Code Ch. 68B shall apply to this Contract. If a conflict of interest is proven to IDALS, IDALS may terminate this Contract, and Grantee shall be liable for any excess costs to IDALS as a result of the conflict of interest. Grantee shall establish safeguards to prevent employees, consultants, or members of governing bodies from using their positions for purposes that are, or give the appearance of being, motivated by the desire for private gain for themselves or others with whom they have family, business, or other ties. Grantee shall report any potential, real, or apparent conflict of interest to IDALS.

SECTION 10. INDEMNIFICATION

Grantee shall jointly and severally defend, indemnify and hold IDALS, its successors and assigns, harmless from and against any liability, loss, damage or expense, including reasonable counsel fees, which IDALS may incur or sustain by reason of: (a) the failure of Grantee to fully perform and comply with the terms and obligations of this Contract; (b) Grantee's performance or attempted performance of this Contract; (c) Grantee's activities with subgrantees and third parties.

SECTION 11. CONTRACT ADMINISTRATION

11.1 NONASSIGNMENT. This Contract may not be assigned without prior written consent of IDALS.

11.2 COMPLIANCE WITH THE LAW; NONDISCRIMINATION IN EMPLOYMENT.

The Contractor, its employees, agents, and subcontractors shall not engage in discriminatory employment practices which are forbidden by federal or state law, executive orders, and rules of the Iowa Department of Administrative Services. The Contractor, its employees, agents, and subcontractors shall comply with all applicable federal, state, and local laws, rules, ordinances, regulations, orders when performing under the Contract, including without limitation, all laws applicable to the prevention of discrimination in employment (e.g., Iowa Code chapter 216 and section 19B.7) and the use of targeted small businesses as subcontractors and suppliers. Upon the State's written request, the Contractor shall submit to the State a copy of its affirmative action plan, containing goals and time specifications, and accessibility plans and policies as required under Iowa Administrative Code chapter 11—121.

The Contractor, its employees, agents and subcontractors shall also comply with all federal, state, and local laws, including any permitting and licensure requirements, in carrying out the work performed under this Contract.

In the event Contractor contracts with third parties for the performance of any of the Contractor obligations under this Contract as set forth in section 4.8, Contractor shall take such steps as necessary to ensure such third parties are bound by the terms and conditions contained in this section.

Notwithstanding anything in this Contract to the contrary, Contractor's failure to fulfill any requirement set forth in this section shall be regarded as a material breach of this Contract and the State may cancel, terminate, or suspend, in whole or in part, this Contract. The State may further declare Contractor ineligible for future state contracts in accordance with authorized procedures or the Contractor may be subject to other sanctions as provided by law or rule.

If all or a portion of the funding used to pay for the Deliverables is being provided through a grant from the Federal Government, Contractor acknowledges and agrees that pursuant to applicable federal laws, regulations, circulars and bulletins, the awarding agency of the Federal Government reserves certain rights including, without limitation a royalty-free, non-exclusive and irrevocable license to reproduce, publish or otherwise use, and to authorize others to use, for Federal Government purposes, the Deliverables developed under this Contract and the copyright in and to such Deliverables.

11.3 AMENDMENTS. No change, modification, or termination of any of the terms, provisions or conditions of this Grant Contract shall be effective unless made in writing and signed by both parties.

11.4 COMPLIANCE WITH LAWS AND REGULATIONS. Grantee shall comply with all applicable State and federal laws, rules, ordinances, regulations and orders, including those governing procurement. Grantee declares that it has complied with all federal, state, and local laws regarding business permits and licenses that may be required to carry out the work to be performed under this Contract.

11.5 ACCESS TO RECORDS. Grantee shall permit IDALS or its representatives and the State Auditor to access and examine, audit, excerpt and transcribe any pertinent books, documents, papers and records of Grantee relating to orders, invoices, or payments, or any other documentation or materials pertaining to this Contract. All records of Grantee relating to this Contract shall be retained for a period of three (3) years following the date of final payment or completion of any required audit, whichever is later.

11.6 AUDITS. IDALS reserves the right to require an audit of the Grantee's approved project and related activities at any time, during or after completion of the project. Any expenses pertaining to the project as a result of the audit will be an allowable expense under this Contract and will follow normal disbursement procedures.

11.7 UNALLOWABLE COSTS. If IDALS determines at any time, whether through monitoring, audit, closeout procedures or other means that Grantee has received Grant funds or requested disbursement for costs which are unallowable under the terms of this Contract, Grantee

shall immediately repay to IDALS any and all unallowable costs.

11.8 SURVIVAL OF CONTRACT. If any portion of this Contract is held to be invalid or unenforceable, the remainder shall be valid and enforceable.

11.9 GOVERNING LAW. This Contract shall be interpreted in accordance with the law of the State of Iowa, and any action relating to the Contract shall only be commenced in the Iowa District Court for Polk County or the United States District Court for the Southern District of Iowa.

11.10 INTEGRATION. This Contract contains the entire understanding between Grantee and IDALS relating to this Project and any representations that may have been made before or after the signing of this Contract, which are not contained herein, are nonbinding, void and of no effect. Neither of the parties has relied on any such prior representation in entering into this Contract.

IN WITNESS WHEREOF, the parties hereto have caused this Contract to be executed as of the latest date stated below.

FOR GRANTEE:

Enter Grantee Name
City of Ames

		/	/	
Signature	Print Name/Title	Date		

FOR IDALS:

	/	/	
Julie Kenney, Deputy Secretary of Agriculture	Date		



February 8, 2019

Iowa Department of Agriculture and Land Stewardship
Division of Soil Conservation and Water Quality
c/o Will Myers
502 East 9th Street
Des Moines, IA 50319

Dear Mr. Myers,

We are pleased to submit the City of Ames full-application for the 2018 Water Quality Initiative - Urban Conservation Projects funding opportunity through the Iowa Department of Agriculture and Land Stewardship. We believe our project illustrates our excitement for, and continued commitment to, actively engaging in watershed health and conservation. This project will continue to foster collaborative efforts through established partnerships and provide excellent educational and outreach opportunities for all residents of our watershed community.

The City of Ames would like to use this opportunity to build upon previous and ongoing efforts and as well show our commitment to being an urban leader in a comprehensive effort toward improved water quality. We very much appreciate the opportunity to submit on this potential funding opportunity and thank you for your consideration of our proposal.

If you have any specific questions, please feel free to contact me anytime at twarner@city.ames.ia.us or at 515-239-5160.

Respectfully,

Tracy L. Warner, P.E.
Municipal Engineer

City of Ames Urban Water Quality Improvements

CAMPUSTOWN – WELCH AVENUE

Full-Application Cover Sheet

1. General Project Information

Project Title: Campustown Public Improvement Project: Welch Avenue

Applicant Entity: City of Ames, Iowa **Contact:** Tracy Warner

Address: 515 Clark Avenue, Ames, Iowa 50010

Phone: (515) 239-5610 **Email:** twarner@city.ames.ia.us

Authorized Representative Signature:



Executive Summary

Welch Avenue between Lincoln Way and Chamberlain Avenue (known as the 100 block) is scheduled for reconstruction in fiscal year 2019-2020 (spring/summer 2019) as part of the City of Ames Capital Improvements Program. The pavement of Welch Avenue was most recently rebuilt in the late 1980's/early 1990's and has century-old underground utility infrastructure underneath it. These facilities are in need of replacement and include water main, storm sewer, and sanitary sewer.

Welch Avenue is located within an area known as Campustown and is in the College Creek Watershed. Campustown is a high density residential and commercial district with high visibility and adjacent to Iowa State University, which lies immediately to the north.

Welch Avenue stormwater discharges under Lincoln Way to College Creek just upstream of the entrance to Lake Laverne on the Iowa State University Campus. The College Creek-Squaw Creek confluence is approximately one mile to the east of the project site. See Figure 1 for the project location.

Due to the urban nature of the location, proposed stormwater BMP's types are very limited. Located in an older, highly impervious portion of the City, there are currently no stormwater controls to address water quality resulting in the creek being heavily influenced by urban stormwater discharges. The proposed stormwater controls will show that, even in a high density area, pollutants can be effectively reduced.

2. Name, location and importance of the surface water:

College Creek, (tributary to Squaw Creek), Lake Laverne

College Creek headwaters lie approximately 3.5 miles west of the project site in Boone County. The Creek enters Ames 2.5 miles west of the site and passes through a residential area. The middle reach of College Creek passes through the area known as Campustown, crosses under Lincoln Way and enters into Lake Laverne on the campus of Iowa State University. From the lake, College Creek discharges to the Squaw Creek (the second largest waterway in Ames) about 1 mile to the east. A tributary of the South Skunk River, Squaw Creek drains approximately 147,000 acres from Boone, Hamilton, Story and Webster counties, and is represented by both urban and agricultural settings. It enters the South Skunk River in southeast Ames. See Figure 2, a Watershed Map of the City.

College Creek is a significant watershed within Ames as it lies in the center of the City within residential and commercial areas and institutional areas (Iowa State University). Improvement efforts have been made upstream of the project site in 2008 to 2010. The restoration included over 4,000 feet of stream channel and bank stabilization as well as upland stormwater management practices, riparian enhancement as well as the integration of residents & recreational users. The engagement and interest in water conservation and quality is shared among its residents.

Just downstream of the project site is Lake Laverne, a focal point on campus. The importance of improving the quality of this water feature cannot be overestimated. It is highly visible at the south entrance to the campus and lies just west of the Union, a center of activity on the Iowa State University campus. The lake has historical significance and protection of waters tributary to it help to maintain the positive image and reputation of the City and University. Recent efforts have been made to improve water quality within the Lake.

3. Project Partners

- Squaw Creek Watershed Management Authority (SCWMA)
- Prairie Rivers of Iowa
- Iowa State University
- Iowa Stormwater Educational Partnership (ISWEP)

4. Budget Summary

	IDALS Request	Applicant Contributions	Partner Contribution	Total Budget
April 1, 2019 -June 30, 2019		\$ 5,000		\$ 5,000
July 1, 2019 – June 30, 2020	\$ 100,000	\$ 120,960	\$ 4,040	\$ 225,000
Overall	\$ 100,000 (43.4%)	\$ 125,960 (54.8%)	\$ 4,040 (1.8%)	\$ 230,000

Pre-Application Narrative (previously submitted pre-application with requested updates)

Describe the primary components/practices that will be installed by this project.

The City of Ames has a progressive Post-Construction Stormwater Management Ordinance that requires all stormwater from development be managed comprehensively for water quality and flood control. Ames takes the approach that it is hard to expect new development to do this, if the city isn't setting the example. This highly visible project provides a demonstration of specific practices in a highly urban setting and will be an epicenter of education on urban green infrastructure for local developers, re-developing businesses, students and residents.

The Campustown Public Improvements program is located in the 100 block of Welch Avenue, between Lincoln Way and Chamberlain Avenue. Stormwater quality conservation practices will be part of this project. This street is scheduled for reconstruction in fiscal year 2019-2020 (spring/summer 2019) as part of the Capital Improvements Program. It includes a retrofit of an ultra-urban streetscape that will include the following stormwater BMP's to treat runoff from the 1.25" water quality storm:

- o **Permeable pavers** to be installed in a portion of the sidewalk.
- o **Bioretention** under the permeable pavement through use of tree trenches.

The practices are illustrated in Figure 3, a street cross section and bioretention cell and Figure 4, the conceptual location of the proposed bioretention practices and permeable pavers.

- o **Signage** to be installed next to practices explaining the benefits to the public.

Describe the primary anticipated benefits from each partner and benefits to urban and rural populations in the watershed.

Interest in improving and protecting our water resources in this watershed is evidenced by the actively engaged community and watershed groups. These groups will play a key role in providing education and awareness by using their existing forums, resources, media outlets, active and engaged audiences and members, as well as planned field days for presenting the project to provide education and awareness on stormwater quality as related to the proposed project. Partners for this project include the Squaw Creek Watershed Management Authority (SCWMA), Prairie Rivers of Iowa and Iowa State University and Iowa Stormwater Educational Partnership (ISWEP). Partner support letters are provided within this application. All partner contributions will be provided in-kind.

Iowa State University has a diverse population of students that come from and will move to both urban and rural communities before and after they leave Ames. They will take what they learned and apply it locally within urban and rural areas of Iowa, as well as beyond Iowa and beyond the United States. Because the University is predominately an agricultural, science and engineering university, many students will be employed in professions where water quality is becoming a big concern that is being addressed locally and globally. The principles of nutrient reduction learned from the measures on Welch Avenue can be applied to the professions of farming, site design and biology/ecology. The impact of an effective feature such as the proposed bioretention cells can have broad and far reaching impacts and implications because of the unique location of the project and the characteristics of the University community.

Outside of the University partner, the Squaw Creek Watershed Management Authority (SCWMA) and ISWEP have close existing collaborative relationships, with City Staff being members of both partners. This will help facilitate the concerted education and outreach effort. The existing relationships amongst the project partners, including the City, and the affiliated extensive networks and resources will be leveraged for maximizing education and outreach opportunities.

The City is committed to being a leader in protecting and improving water quality, and implementing practices that support ongoing efforts. City policies, as well as the efforts, goals and objectives shared by other watershed partners such as the SCWMA, which completed a watershed management plan in 2014 for effectively converting planning into action and implementation. This provides an opportunity to tie directly into the collective efforts of the Squaw Creek Watershed Management Plan, directly contributing to the goals listed in the plan:

Goal #1 is to increase people's awareness and understanding of the individual connections and efforts within the watershed. **Goal #2** is to improve water quality in the watershed. **Goal #3** is to reduce the effects associated with altered hydrology (heavy flows, diminished base flow) within the watershed. **Goal #4** is to increase the variety of habitat for animal and plant life in the watershed. **Goal #5** is to create outstanding recreational opportunities in the

watershed. **Goal #6** is to work cooperatively to identify stakeholders and resources and facilitate partnerships to implement the watershed plan.

This project will provide great exposure to both urban and rural watershed residents for educational and awareness purposes contributing to the effort of translating awareness of watershed issues into action as outlined in the watershed management plan. In addition, the proposed project would further support and compliment the urban and rural collaborative efforts in addressing conservation and watershed health.

The direct water quality benefits of this project will be realized by residents of the City and other members of the community (rural and urban) who are directly active in College Creek/ Squaw Creek Watershed, as will downstream rural and urban populations alike, extending to the Squaw Creek, the Skunk River and beyond. The proposed practices will provide removal of nutrients, sediment, bacteria, oil and grease, heavy metals, and other pollutants common to urban environment through settling, biochemical reactions, and plant uptake. In addition, the tree trenches will promote healthier trees within an urban environment and also reduce the impact of urban heat.

If there will be other / future phases of this project or if the things that would be funded by this application are part of a larger scale project, describe the larger project and how this application fits in or compliments other aspects of a larger project.

The proposed water quality practices are part of a larger Welch Avenue street and utility project that includes new storm sewer, water mains to improve flow and quality in the area and provide additional domestic and firefighting capabilities. These improvements will service the adjoining redeveloped areas as well as provide for future high intensity development in the vicinity. In addition the project includes improvements to the existing sanitary sewer system that will reduce inflow and infiltration, recover structural integrity, and mitigate back-up potential.

It is anticipated that other blocks of Welch Avenue and Campustown streets will be reconstructed within the near future and that this project will set the standard for stormwater management within those streets.

Describe how the project will be evaluated to determine if anticipated benefits are realized.

Performance-based metrics will be used to estimate pollutant(s) removal based on the drainage areas treated by the bioretention areas. In addition, a pre- and post-project survey will be administered by Prairie Rivers of Iowa to assess the project contribution to public awareness, to assess the effectiveness of the education and outreach efforts.

Nutrients will be monitored in effluent entering the system and at the outlet of the bioretention cell as the effluent enters the storm sewer system. This information can also be tied to pollutant removal. The practices will be inspected and maintained on a scheduled basis to ensure long-term function. The educational aspects will be evaluated based on the number of outreach efforts and number of participants attending events.

Tree health will be monitored as well. Paul Tauke, the City of Ames Urban Forester, will be consulted for evaluation and inspection of tree health. Site visits will take place throughout the year (at least once in the spring and once in the fall) documenting the trees growth and health. The first practice will measure the trunk diameter at 4.5 feet above the ground for each tree using a diameter tape. The second practice is be a visual evaluation of the tree's health. The tree's health will be rated on a system of A through D. (A) being good health, (B) being stressed, (C) indicating declining health and (D) noting dead, almost dead, missing or replaced. The third measurement of data collection will be photographs documenting the growth.

Describe the education/information program that will be developed as part of the project and anticipated budget.

The City of Ames will levy project partners and City resources to develop an extensive outreach plan that will include planned field visits, website and newsletter articles, live social media broadcasts, produced educational videos, and other stakeholder presentations. The City will install permanent signage and highlight the project during annual Eco Fair and Ames School Science Nights. Outreach will also include working with the Campustown Action Association to educate the neighborhood businesses and residents about the practices. The City will also ask project partners to include project articles within their communication resources and events to further provide awareness to the project. We anticipate that public awareness will be very high due to the highly visible location and public knowledge of the area.

In addition to the City's professional organizational partners, the City has a unique ability to work with Iowa State University classes and student clubs. Welch Avenue is the center of the Campustown District and as such a significant number of pedestrians pass through the area. This includes University students, Ames residents and business owners, faculty, staff, alumni, and visitors. Traffic counts performed on September 13, 2018 indicate that there are currently at least 2,200 pedestrians passing through the Welch Avenue and Lincoln Way intersection on a typical day.

In conjunction with the planning and design of this project, the City created partnerships with the Community and Regional Planning Group (CRP) as well as the Student Body Government to help draw in feedback about design and priorities. Water quality and storm water management features were a desired feature for the Welch Redevelopment Project per the community wide survey and outreach events. The City will continue to work with the CRP club and other ISU departments on this project to provide learning opportunities and awareness of water quality features and our sponsors.

It is proposed to give tours and teach about the practices at “Summerfest”, an annual event held for the Community on Welch Avenue, at “Welcomefest”, a large event held at the beginning of the University School Year at the Union, and at a Campustown Action Association monthly meeting.

Full-Application Narrative

Explain where you are at in the planning and design process for each practice.

- **Provide preliminary or final plans, if possible.**

Design of the stormwater practices is in process. Concept design of the proposed bioretention and permeable paver is shown in Figures 3 & 4. A consultant has been retained to prepare full design and construction plans for the practices. Signs will be designed during the later stages of construction and installed shortly after the construction is finished.

Provide the anticipated timeline of completion for each practice (finalize design, permitting, construction bidding, etc.), if awarded funding.

Approximate Timeline:

- Complete Preliminary Design: March 29, 2019
- Obtain IDNR Utility permits: April, 2019
- Complete Final Design: April 18, 2019
- Bid Letting: May 22, 2019
- Award Construction Contract: May 28, 2019
- Begin Construction: July, 2019
- End Construction: October, 2019
- Install Signage: November, 2019
- Education and Outreach, continuous beginning during construction

Provide a list of anticipated/required permits needed before construction can begin (i.e. 401/404, NPDES, cultural resources, etc.). Provide status of where the project is for this permitting and anticipated timelines for permit completion.

No permits are required for the proposed water quality measures; however, utility permits are required for the proposed replacement water mains and sanitary sewer mains prior to construction. Preliminary design of these utilities is in process and it is anticipated that the permits will be obtained by the end of March, 2019.

Provide a listing of partners, including who/what entities are contributing to the project, whether those funds are in-kind or cash, and what specific item these contributions are going towards (outreach, practice, design, etc). For in-kind funds, please provide additional detail of the anticipated value of these contributions as they pertain to each project deliverable.

- **Signed letters of support are required to document these partner contributions.**

Signed letters of support from each partner are attached at the end of this application.

Project Partner	Representative	Contribution Type	Item(s) Covered
Squaw Creek Watershed Management Authority (SCWMA)	Jean Eells	In-Kind	Outreach/Education
Prairie Rivers of Iowa	Penny L. Brown Huber	In-Kind	Outreach/Education
Iowa State University	Mimi Wagner, Mike Perez, Grant Thompson	In-Kind	Outreach/Education Water Quality Monitoring
Iowa Stormwater Educational Partnership (ISWEP)	Pat Sauer	In-Kind	Sign Design/ Outreach/Education

[Practice Description](#)

<p>Practice #1: (provide name and description of practice)</p> <p>Permeable Pavers</p> <p>Permeable pavers are planned within sections of the sidewalk of Welch Avenue.</p>	<p>IDALS: (IDALS contribution to practice)</p> <p>\$ 30,000</p> <hr/> <p>TOTAL: (Applicant and partner budget contributions to practice)</p> <p>\$ 30,000</p>
<p>Practice Details: (provide a general description of the location, design status, permits required, and current permit status)</p> <p>This practice will capture runoff from the project area of approximately 30,000 square feet. Pavers will be designed in accordance with Chapter 10 of the Iowa Stormwater Management Manual. The pavers will serve as the primary entrance system into the tree trenches and will allow for effective transport of runoff from the surface to the tree roots. Permeable pavers are capable of significant nutrient reduction of up to 80% total phosphorous, 80% total nitrogen and 90% heavy metals.</p> <p>In 2017 the City of Ames installed permeable pavers in combination with bioretention cells within the reconstructed City Hall parking lot. In an effort to encourage the local development community in embracing Low Impact Development practices, the City wants to set the example, that even in a highly urban part of the City, these practices can be used effectively. They are also an effective way to incorporate storm water features into a streetscape and making the streetscape more attractive to the users.</p>	

Practice Description

<p>Practice #2: (provide name and description of practice)</p> <p>Bioretention Cells/Tree Trenches</p> <p>The project area is approximately 33,000 square feet and produces about 3,000 cubic feet of stormwater runoff during the water quality storm (1.25").</p>	<p>IDALS: (IDALS contribution to practice)</p> <p>\$ 67,500</p>
	<p>TOTAL: (Applicant and partner budget contributions to practice)</p> <p>\$ 67,500</p>

Practice Details: (provide a general description of the location, design status, permits required, and current permit status)

Bioretention cells through the practice of tree trenches will be designed to treat the water quality storm from the street and sidewalk area and will be located at strategic locations within the project. The Iowa Stormwater Management Manual Design does not specifically include this bioretention practice but since space is very limited traditional bioretention is not an option. The design will manage the water quality volume from the bioretention section of the Iowa Stormwater Management Manual. The City will work with the urban conservationist on this design to be sure it conforms to the tree trench standards that are currently being developed by the ISWMM technical committee. See Figure 3 for a conceptual view of the bioretention cell on a typical cross section and Figure 4 for a conceptual location of the cells.

The bioretention cell will work in combination with permeable pavers and curb openings along the street that will enable the runoff to enter the soil system and street trees. Below the pavers will be an aggregate filter layer and below that will be a structural units, which support the pavement. The units will contain a soil media that will allow tree roots to penetrate and use stormwater that is distributed throughout the system will a series of pipe and stone. Trees will be planted next to the structural units and the sizing of the units will allow for successful support of either an understory or overstory tree. A linear underdrain will be constructed at the bottom of the system to transport excess water that passes through the tree trench to the storm sewer system.

In addition to the benefits to the health of the trees, there will be significant reduction in pollutants from the runoff. Typical pollutant removals in this type of system are:

- Total suspended solids: 85-95%
- Total phosphorus : 70-75%
- Total nitrogen = 65-80%%
- Heavy Metals: 75-95%

Several Departments within Iowa State University are proposing to collaborate to research the effectiveness of the practices in pollution reduction. In addition there will be public education and outreach during construction and after completion of the practices. Partners, including Iowa State faculty, will tour the practices with their students, and the teaching impact is anticipated to go far outside Ames as students leave the City and apply what they have learned.

No outside permits are required for the installation of this practice.

<p>Practice #3: (provide name and description of practice)</p> <p>Signage</p> <p>Install signage at the stormwater quality practices</p>	<p>IDALS: (IDALS contribution to practice)</p> <p>\$ 2,500</p> <hr/> <p>TOTAL: (Applicant and partner budget contributions to practice)</p> <p>\$ 2,500</p>
<p>Practice Details: (provide a general description of the location, design status, permits required, and current permit status)</p> <p>Signs will provide information to both the casual visitor and to those visiting the site to see the practices. They will be placed at key locations to attract people and will be a key tool in educating the public on the stormwater practices employed at the site.</p> <p>Welch Avenue serves as a hub for Ames residents; Iowa State University faculty, alumni, and current students; and visitors to the City of Ames. Extensive outreach was conducted for this redevelopment project providing input that included storm water management and water quality features to be a highly desired portion of this project. The City of Ames in partnership with the ISU Community and Regional Planning Student Group developed a community and student survey along with several outreach events to garner diverse input. The permanent signage of these features will offer desired information and learning tools for Iowa State students and Ames residents.</p> <p>It is proposed to give tours and teach about the practices at “Summerfest”, an annual event held for the Community on Welch Avenue, at “Welcomefest”, a large event held at the beginning of the University School Year at the Union, and at a Campustown Action Association monthly meeting. The signs will be a teaching tool during these tours.</p> <p>The signage will also explain the practices to the local development community, providing valuable information to property owners and developers, consultants and construction representatives.</p>	



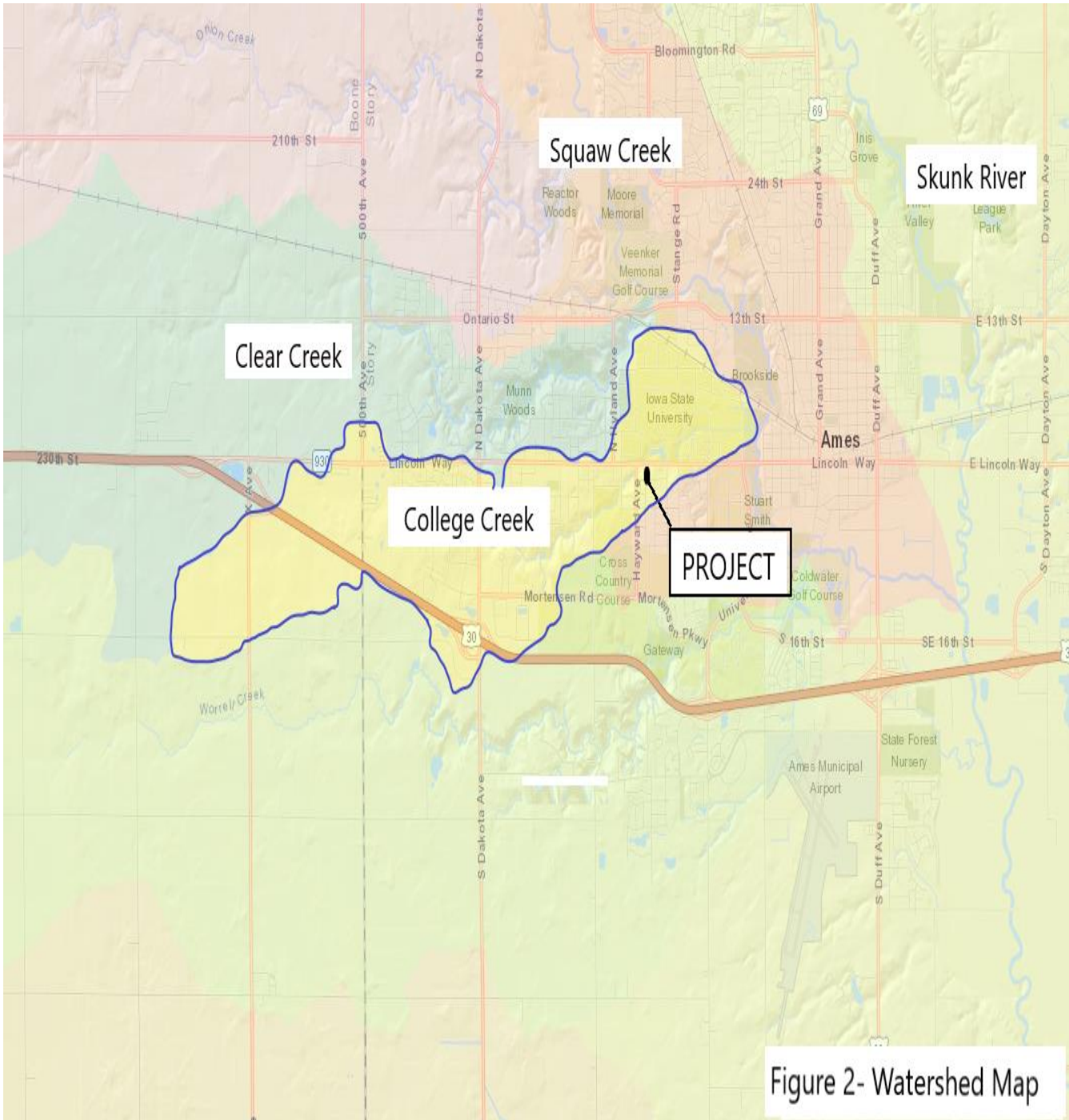
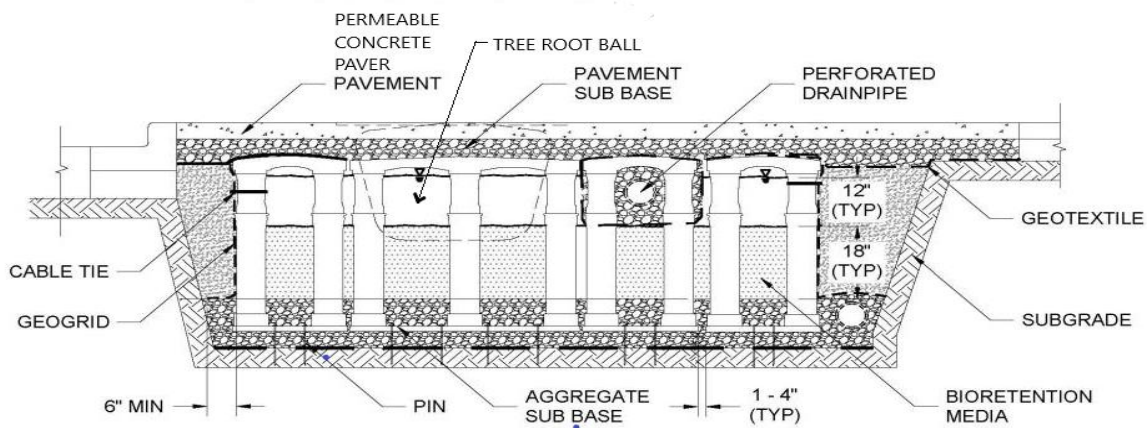
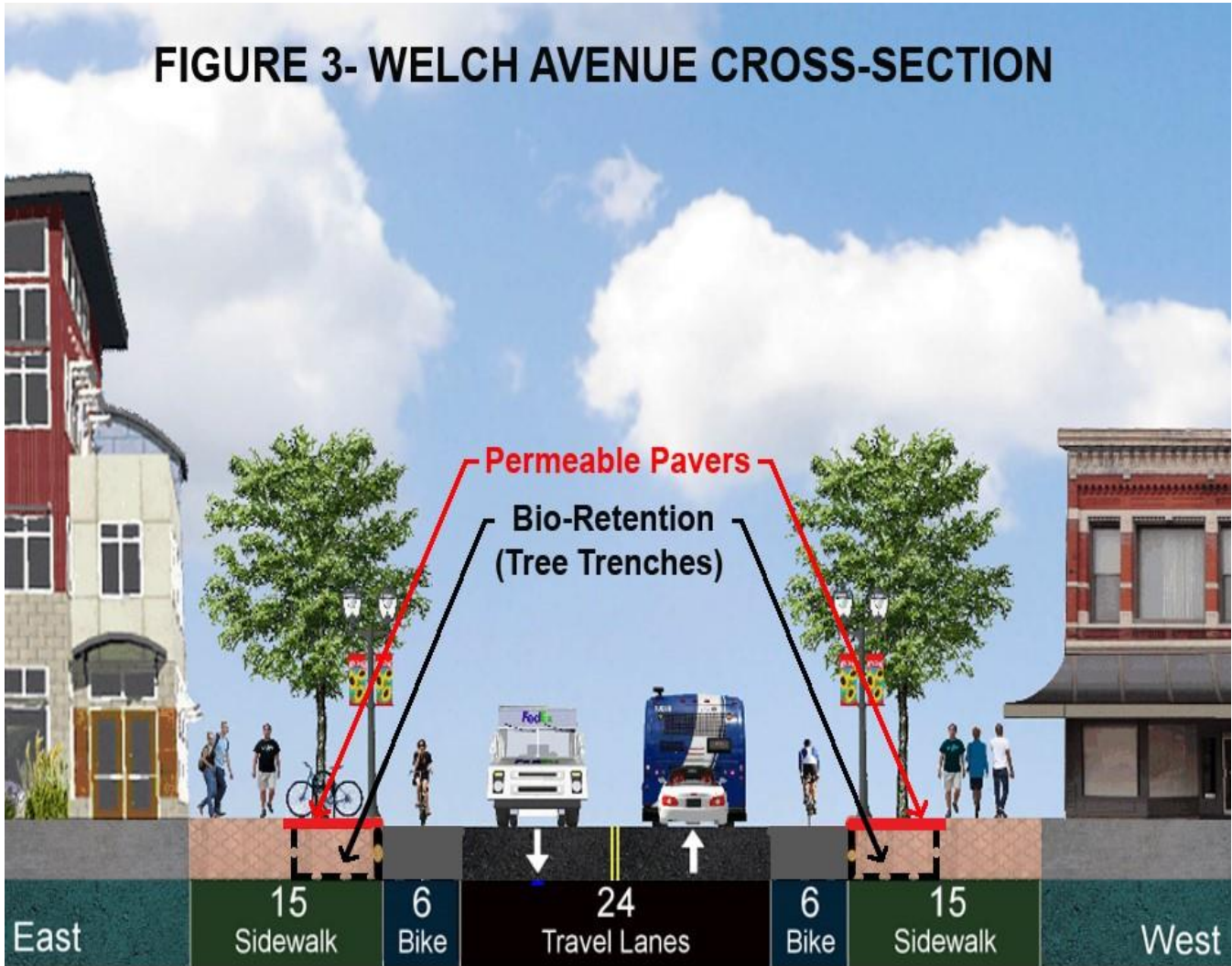
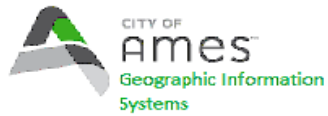
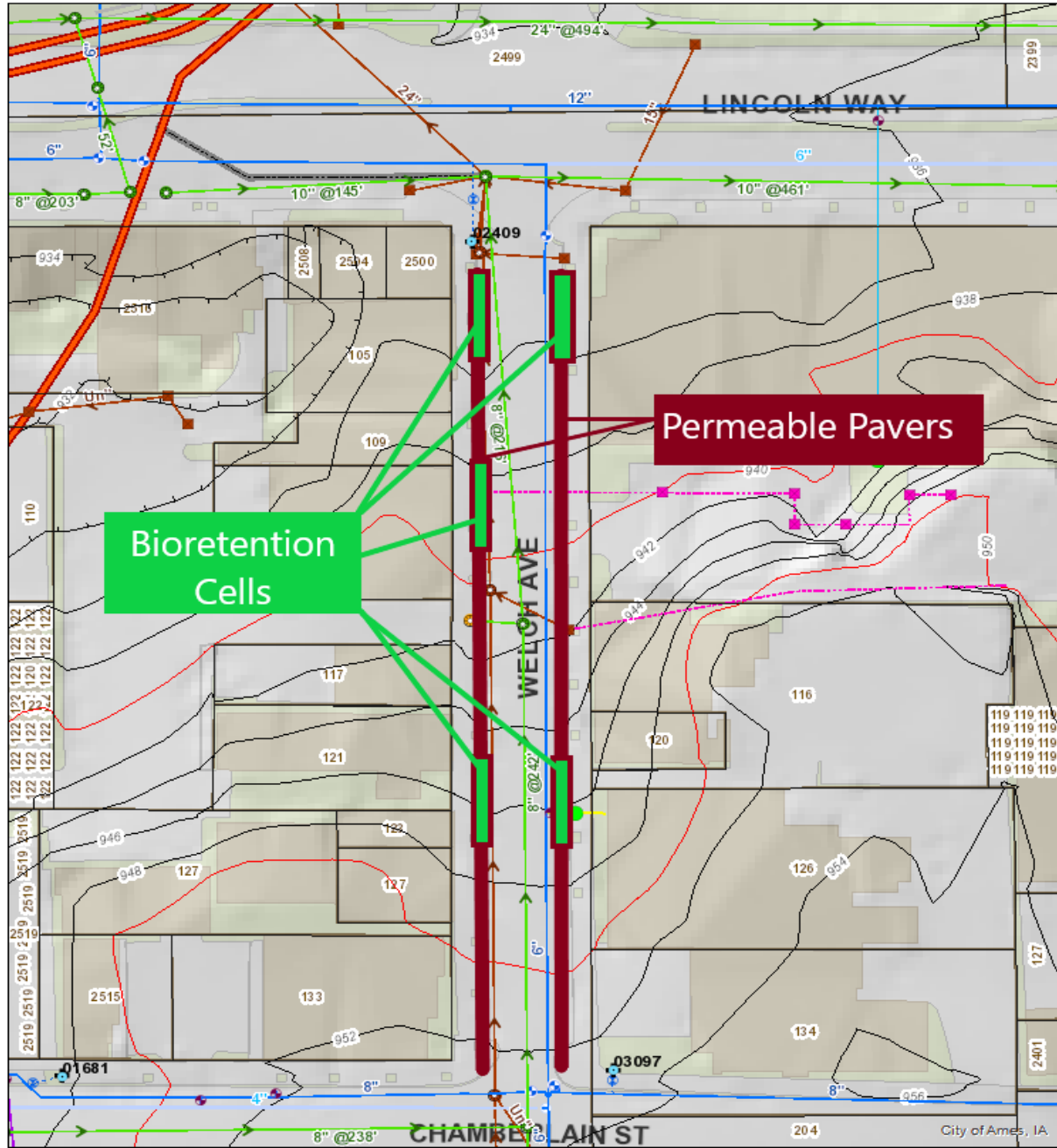


Figure 2- Watershed Map

FIGURE 3- WELCH AVENUE CROSS-SECTION



Bioretention Cell/Tree Trench Detail



Welch Avenue Water Quality Practices



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Date: 1/29/2019

Figure 4



WELCH AVENUE WATER QUALITY BMP'S CONCEPTUAL DESIGN COST ESTIMATE- FEBRUARY 8, 2019

NO	DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	AMOUNT
	<u>BIORETENTION</u>				
1	EXCAVATION, CLASS 13	CY	400	\$ 30.00	\$ 12,000.00
2	SUBDRAIN, PERFORATED PVC, 6 IN.	LF	1300	\$ 10.00	\$ 13,000.00
3	CONNECTION TO EXISTING MANHOLE	EACH	5	\$ 1000.00	\$ 5,000.00
4	BIORETENTION UNIT (SILVA CELL)	CF	3100	\$ 22.00	\$ 68,200.00
5	AGGREGATE BACKFILL	TON	310	\$ 40.00	\$ 12,400.00
6	AGGREGATE SUBBASE	TON	70	\$ 40.00	\$ 2,800.00
7	PLANTS, DECIDUOUS UNDERSTORY TREES, 1.5 IN. CAL.	EACH	5	\$ 400.00	\$ 2,250.00
8	CURB CUTS/INLETS INTO SYSTEM	EACH	5	\$1,000.00	\$ 5,000.00
9	CONTINGIENCIES				\$ 14,350.00
	SUBTOTAL-BIORETENTION				\$135,000.00
	<u>PERMEABLE ROADWAY CONCRETE PAVERS</u>				
1	PERMEABLE ROADWAY CONCRETE PAVERS	SY	200	\$ 70.00	\$ 14,000.00
2	FILTER AGGREGATE, 1' DEPTH	TON	400	\$ 45.00	\$ 18,000.00
3	CURB AND GUTTER, 2.5 FT	LF	900	\$ 25.00	\$ 22,500.00
4	CONTINGIENCIES				\$ 5,500.00
	SUBTOTAL-PERMEABLE PAVERS				\$ 60,000.00
	CONSTRUCTION TOTAL				
	PROJECT DESIGN				\$ 5,000.00
	INSPECTION				\$ 10,000.00
	MONITORING				\$ 10,000.00
	SIGNAGE				\$ 5,000.00
	OUTREACH				\$ 5,000.00
	TOTAL PROJECT COST				\$230,000.00

January 28, 2019

Iowa Department of Agriculture and Land Stewardship Division of Soil Conservation and Water Quality c/o Will Myers 502 East 9th Street Des Moines, IA 50319

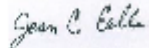
To whom it may concern,

I'm writing as the Chair of the Squaw Creek Watershed Management Authority to express our support for the City of Ames proposed storm water project as part of the City of Ames Campustown Public Improvement Project: Welch Avenue to improve water quality and decrease storm water runoff. The City of Ames is located in the Squaw Creek watershed and our WMA has a sincere commitment to support improved water quality.

We have board members representing rural and urban interests from every town within the watershed and this project will be an important example for all board members. We will commit to having a presentation about the project at one of our board meetings so we can learn more of the details of how and why this will work to keep our waters cleaner. The City of Ames has provided leadership in the development of our WMA and we are proud of their continued commitment to responsible water management.

As a volunteer board, it is difficult to assign a value to everyone's in-kind contributions to the cause, but we routinely have a dozen policy leaders attending our meetings and they spend a minimum of an hour and a half at each board meeting. The majority of the meeting time revolves around specific educational content and discussion of those issues so, our hour will be mostly focused on the storm water practice construction and function so that the respective city and county leaders have a full understanding of it. At our January meeting there was enthusiasm expressed for this project so I'm sure there will be good attendance when we're able to view the project if funded. I will use a federal rate for in-kind reimbursement of \$45.00 per hour to estimate \$540.

Sincerely,



Jean C. Eells, PhD. 2018 Chair, Squaw Creek Watershed Management Authority Serving as a representative from the Hamilton Soil and Water Conservation District

2550 Stagecoach Road Webster City, Iowa 50595



February 8, 2019

Iowa Department of Agriculture and Land Stewardship
Division of Soil Conservation and Water Quality
c/o Will Myers
502 East 9th Street
Des Moines, IA 50319

Dear Mr. Myers,

Prairie Rivers of Iowa is in support of the City of Ames proposed project for construction of bioretention tree trenches and the use of permeable pavers as a part of the improvements on Welch Avenue for improving water quality and decreasing stormwater runoff. The City of Ames is located in the Squaw Creek/South Skunk River watersheds, of which Prairie Rivers of Iowa is a committed partner in improving water quality. We believe the proposed City of Ames project will benefit all who reside in the Squaw Creek and South Skunk River Watersheds, and provide an excellent opportunity for education and awareness.

Interest in improving and protecting water resources in this watershed is evidenced by the actively engaged community and watershed groups and the current efforts that are being led by both agricultural and urban stakeholders alike. This project shows continued commitment by the largest urban center in the watershed to be an active participant and supporter of these efforts, with this project directly is working toward the goals of the Nutrient Reduction Strategy.

Prairie Rivers of Iowa is looking forward to partnering with the City of Ames in its efforts of improving and protecting water quality. We are committed to providing in-kind services in the following manner: education/outreach support via information dissemination, sharing information at our outreach events in the Squaw Creek Watershed, and a feature in our biannual newsletter and Prairie Rivers of Iowa's website.

The value of our in-kind contribution is estimated to be \$3,000, which includes staff time and materials. We look forward to working with the City of Ames to improve water quality and using this effort to help educate and inspire others to follow suit.

Best wishes,

A handwritten signature in black ink that reads "Penny L. Brown Huber".

Penny L. Brown Huber
Executive Director
pbrownhuber@prrcd.org

February 7, 2019

Dear Will Myers & Jerry Neppel, IDALS Water Quality Initiative-Urban Conservation Projects

This letter accompanies the City of Ames funding application for the Campustown-Welch Avenue City of Ames Urban Water Quality Improvement project. I'm pleased to support the spirit of this project as well as participate in research associated with it.

The Campustown-Welch location is one of the most heavily travelled pedestrian area in Ames. In addition to enhancing water quality, urban water quality enhancement practices located in highly visible urban areas are extremely important for social learning experiences. I've learned that this is true by administering the Lake LaVerne Floating Vegetated Islands just across the street from the proposed location for this project. In addition to the nearly 35,000 students enrolled, the population swells during sporting events, concerts and lectures. Student families are also common visitors to campus and Campustown. Visitors come from all over Iowa as well as many international locations. The location of this project will attract their attention and curiosity; visitors will notice its appearance and will want to walk up next to it and learn about it. In terms of investing in a project that will provide a high return in public education, I don't think there can be a better project location in Iowa.

There is no comparable urban water quality enhancement project like this on the ISU campus. So, addition to casual passers-by, faculty and students in the College of Design will be interested in this projects' construction and monitoring as a teaching case study.

I am one of several ISU scientists involved in this project. Our research team is interested in establishing quantitative data for the amount of stormwater infiltrated as well as changes in nutrient content due to the treatment. In terms of my direct participation in the effort, I look forward to involvement in establishing the monitoring protocol, overseeing the sampling and helping to analyze the results. I'm also interested in helping to develop public educational material for onsite use related to the BMPs.

I think this project will add a great deal to what is known about permeable pavers and bioretention cells in Iowa. Please contact me with any questions regarding my involvement or public education in general. I appreciate your consideration of this project.

Sincerely yours,



Mimi Wagner
Associate Professor of Landscape Architecture
Program Director, Design for Sustainable Environments Graduate Program

IOWA STATE UNIVERSITY
OF SCIENCE AND TECHNOLOGY

College of Engineering
Department of Civil, Construction
and Environmental Engineering
Ames, Iowa 50011-3232
(515) 294-2140

February 4, 2019

Iowa Department of Agriculture and Land Stewardship
Division of Soil Conservation and Water Quality
c/o Will Myers
502 East 9th Street
Des Moines, IA 50319

Dear Mr. Myers,

I am writing to express our support for the City of Ames' proposed project for construction of water quality practices on the reconstruction of Welch Avenue. We believe this project will benefit all who reside with the College Creek Watershed and will provide an excellent opportunity for education and awareness.

This location is ideal for access and visibility to show how water quality can be achieved within an urban setting with limited space. We are committing to providing in-kind services by sharing educational opportunities with current undergraduate and graduate students enrolled in the Civil, Construction and Environmental Program at Iowa State University. The project should provide students with an opportunity to gain real-world exposure to the implementation of green infrastructure practices.

The Department of Civil, Construction and Environmental Engineering is looking forward to partnering with the City of Ames to improve and protect water quality and using this effort to help educate and inspire others to follow suit. If you have any questions in regard to our partnership, please feel free to contact me directly via phone (515) 294-2700 or by e-mail (perez1@iastate.edu). We look forward to hearing from you.

Sincerely,



Michael A. Perez, Ph.D., CPESC
Assistant Professor

IOWA STATE UNIVERSITY
OF SCIENCE AND TECHNOLOGY

College of Agriculture and Life Sciences
Department of Horticulture
106 Horticulture Hall
2206 Osborn Drive
Ames, Iowa 50011-4009
515 294-2751
FAX 515 294-0730

February 7, 2019

To the staff of the Iowa Department of Agriculture and Land Stewardship:

I write this letter in strong support of the City of Ames's Welch Avenue streetscape proposal to implement green infrastructure measures to improve water quality. This is a highly relevant project to meet the goal set forth by the Iowa Nutrient Reduction Strategy of reducing nonpoint sources of nutrient loads leaving the state. Moreover, the location of the proposed project at the heart of Campustown in Ames will increase the visibility of the project, its educational value, and awareness building potential for how green infrastructure practices can reduce and treat stormwater runoff in urban areas.

The project is also an opportunity for multiple researchers at Iowa State University to develop research projects to investigate the effectiveness of the streetscape renovations in reducing nutrient loading and many other aspects of how green infrastructure practices impact and benefit the citizens of Iowa. As an assistant professor of horticulture and researcher of sustainable landscape management, I plan to evaluate how stormwater runoff water quality impacts bioretention cell soil conditions and tree establishment, potential effects of winter streetscape maintenance practices on soil salinity and tree health, and nutrient loading of post-treatment stormwater. Research potential created by this project will provide long-term opportunities for undergraduate and graduate training and would result in valuable information for municipalities across the state and even the country in terms of reconciling trade-offs of various maintenance practices, stormwater management techniques, and streetscape design guidance.

I highly encourage IDALS to fund this project and would plan to partner with City of Ames staff to develop research opportunities to evaluate the effectiveness the proposed streetscape enhancements on water quality. Please feel free to email me at glt@iastae.edu or call me at (515) 294-4813 if you have any questions with which I may be able to assist.

Sincerely,



Grant Thompson, PhD, PLA
Assistant Professor

Department of Horticulture
Iowa State University
106 Horticulture Hall
Ames, Iowa 50011



IowaStormwater.org

February 7, 2019

Iowa Department of Agriculture and Land Stewardship
Division of Soil Conservation and Water Quality
c/o Will Myers
502 East 9th Street
Des Moines, IA 50319

The Iowa Stormwater Education Partnership (ISWEP) supports cities in Iowa that have separate storm sewer systems and extensive stormwater programs regulated by the Iowa Department of Natural Resources. **We are excited to partner with the City of Ames on the proposed Urban Water Quality Improvement Project in Campustown on Welch Street.** The proposed project will build upon on-going green infrastructure efforts undertaken by the City of Ames. It also provides a unique educational opportunity for both residents and students in the community due to the highly visible location.

ISWEP creates educational resources for its members. In support of this project, ISWEP, will create a project case study in the form of a bulletin that will be distributed statewide to all of its MS4 city members as well as professionals. This project is an example of the types of BMPs that can be used in ultra-urban downtown areas in Iowa cities. The bulletin will be placed on the ISWEP website so that others have access to it as well. The in-kind contribution from ISWEP is estimated at \$500.

We support the proposed project and are thankful that such funding opportunities are available to cities. Please contact me at psauer@iowastormwater.org if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Patricia A. Sauer".

P.O. Box 1826
Ames, IA 50010
Ph: 515-210-6619

Exhibit B Budget

Component	Total	IDALS/ WQI	Local Match Amount	Match Source(s)
Technical/Design Assistance	\$15,000	\$	\$15,000	<u>Local, Partners</u>
Information/Education	\$20,000	\$2,500	\$17,500	<u>Local, Partners</u>
Practices (list & number)				
1. Permeable Pavers	\$60,000	\$30,000	\$30,000	<u>Local</u>
2. Biocells	\$135,000	\$67,500	\$67,500	<u>Local</u>
3.	\$	\$	\$	
4.	\$	\$	\$	
(add lines as needed)	\$	\$	\$	
TOTALS	\$230,000	\$100,000	\$130,000	