Final Report and Feasibility Study Wheatland, Iowa



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About Flenker Land Architects

Flenker Land Architecture Consultants, L.L.C. (FLAC), aka Flenker Land Architects, is a full service professional environmental, planning and landscape architectural firm which was founded in 1997 by Meg Flenker. Professionally licensed FLAC works with both public and private sector clients throughout all phases of their projects - from the conceptual stages of assessing project feasibility, evaluating alternatives, researching funding and performing site analysis and creating schematic designs, to the preparation of final design and construction documents, including project administration and construction observation.

FLAC's personnel are trained and committed to consider aesthetics, detail, scale, pedestrian and vehicular circulation and interaction, project context, environmental impact, user safety, functionality, and how humans interact with their surroundings - all things that FLAC considers inherent to the success and value of each project and essential to creating a "sense of place". With FLAC, you get the persons with the knowledge and experience working on your project. Our "real world" knowledge and understanding of the planning, design, permitting and construction process, coupled with our understanding of the natural and built landscape is an asset to the services that we provide.

We are certified as an Iowa Targeted Small Business (TSB) and a Disadvantaged Business Enterprise (DBE) with the lowa, Illinois and Wisconsin Department of Transportation.

Flenker Land Architecture Consultants, LLC, continually strive to create individualized and quality projects that create value - a guiding principle that has resulted in our involvement in the planning and design of various award winning projects, both at the state and national level.



Site Design: Dubuque, la.



LID Design: Coralville, Ia.



Streetscape Design: Parkersburg, Ia.



Sport Field & Park Design: Eldridge, Ia.



Bike Path Design: Great River Trail



Native Habitat Design: Clinton, Ia.



Meg Flenker, PLA, ASLA, CPESC, CPSWQ

Meg Flenker is a registered landscape architect with over 32 years of professional experience in the landscape architectural, engineering, planning and environmental fields. In addition to holding various certifications in LID, sustainability, hardscape, and environmental planning and design, she is also a Certified Professional in Storm Water Quality (CPSWQ) and Certified Professional in Sediment & Erosion Control (CPSEC). Ms. Flenker holds her Bachelor of Landscape Architecture (BLA) degree from lowa State University and her Master of Business Administration (MBA) degree from the University of lowa. Meg worked for a mid-west engineering firm for 8 years before leaving to start Flenker Land Architecture Consultants in 1997, which is the same year that she became involved with the lowa's Living Roadways Community Visioning Program.

A native of eastern lowa, Meg returned to the Quad Cities after graduating from lowa State. Today, she resides just north of the Quad-Cities on the family farm that she grew up on and is active in the community.



Timothy J. (TJ) Hillberry, Intern

TJ is a 4th-year Landscape Architecture student at lowa State University, minoring in sustainable design. Born and raised in lowa City, lowa, TJ has always enjoyed the outdoors and admired nature's ability to bring people together. The field of landscape architecture has allowed him to pursue his passions for both the outdoors and design. Mr. Hillberry views landscape architecture as a professon that improves both the human and environmental health of places and spaces in an ecologically and environmentally friendly way.



Paola Monllor-Torres, Intern

Paola is a Spring 2021 graduate of lowa State University's Landscape Architecture professional program. Born and raised in Puerto Rico, she moved to lowa five years ago to start her studies in the design field where she quickly realized her love of landscape architecture. Ms. Monllor-Torres is interested educating hereself about other cultures and implementing their aspects into her design and personal life.



Ethan Morrow, Intern

A native of Aledo, Illinois, Ethan is in his fifth and final year in the 5-year professional Landscape Architecture program at lowa State University, with a minor in sustainability. Ethan is passionate about designing and building things he creates and likes being active outdoors, especially near the water. Mr. Morrow enjoyed working with the communities this summer where he was able to apply his past construction experience in the planning and design of aesthetic and functional projects. He enjoys landscape architecture because of the many ways it can enrich people's lives.

Program Overview

Wheatland is one of 10 communities selected to participate in the 2021 lowa's Living Roadways Community Visioning Program. The program, which selects communities through a competitive application process, provides professional planning and design assistance along transportation corridors to small lowa communities (populations of fewer than 10,000).

Goals for the Visioning Program include:

- · Developing a conceptual plan and implementation strategies with local communities
- · Enhancing the natural, cultural, and visual resources of communities
- Assisting local communities in using external funds as leverage for transportation corridor enhancement

Each visioning community works through a planning process consisting of four phases of concept development:

- 1. Program initiation
- 2. Needs assessment and goal setting
- 3. Development of a concept plan
- 4. Implementation and sustained action

Each visioning community is represented by a steering committee of local residents and stakeholders who take part in a series of meetings that are facilitated by field coordinators from Trees Forever. Iowa State University organizes design teams of professional landscape architects, design interns, and ISU faculty and staff. The program is sponsored by the Iowa Department of Transportation.

Community Goals

The Wheatland visioning committee identified a number of goals and priority areas during the visioning process, which are included below:

- · Improve the pedestrian experience by adequately lighting primary routes and providing site amenities such as benches
- Enhance pedestrian accessibility, safety, and circulation by repairing, replacing, and building new ADA-compliant sidewalks to create a complete sidewalks system
- Upgrade the downtown streetscape to attract businesses and patrons
- Increase community identity and visual connectivity throughout Wheatland and to community assets by creating a way-finding system which integrates elements that strengthen Wheatland's identity
- Create more outdoor recreational opportunities for residents by improving city parks and creating multi-use trails within Wheatland and to neighboring Calamus



Residents reviewed preliminary concepts and provided feedback during the design workshop held on July 8, 2021.

Program Overview

The city of Wheatland is one of 10 communities selected to participate in the 2021 lowa's Living Roadways Community

competitive application process, provides professional planning and design assistance along transportation corridors to small lowa communities (less than 10,000 The program, which selects communities through a

Community Visioning is part, manage the visioning process

Architecture and ISU Extension and Outreach, of which

lowa State University's Department of Landscape

coordinators from Trees Forever.

sessions, including transportation assets and barriers (TAB) high school students. Iowa State University, along with Trees

focus groups, a random-sample survey, and a survey of

Forever and the lowa Department of Transportation, select

private-sector Professional Landscape Architects (PLA) to be part of the design team and work with the various

communities in creating their "community vision" and

transportation enhancement plan.

interns conduct a bioregional assessment and public input

and the design team. In addition, ISU project staff and

Visioning Program Goals:

- Develop a conceptual plan and implementation strategies alongside local community residents.
- Enhance the natural, cultural and visual resources existing within communities.
- leverage for transportation corridor enhancement. Assist local communities in using external funds as

Each visioning community works through a planning process consisting of four phases of concept development:

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Program Overview Wheatland



Members of the local Wheatland community visioning committee halp explain, answer questions, and gather input during the design workshop.

Department of Transportation.

committee of local residents and stakeholders who take

Each visioning community is represented by a steering part in a series of meetings that are facilitated by field

Community Goals

The Wheatland steering committee identified a number of members identified during their participation in the TAB

- Improve the pedestrian experience by adequately
- ▶ Upgrade the downtown streetscape to attract



Tactile urbanism was used during the design workshop to help residents visualize and expenience the spatial relationship of specific elements proposed. Straw worther, milk cruse, and temporary gallow point that represented turnp-outs, benches and a crossualize, repectively, were placed on the north side of the Julianson and Main Street intersection.

The Community Visioning program is sponsored by the lowa

3a-3c), as well as the randnom-sample survey, and a survey goals and priority areas during the visioning process. These goals and priorities were reflective of what the community workshops held virtually in early March 2021 (see boards of high school students.

- lighting primary routes and providing site amenities such as benches
- circulation by repairing, replacing, and building new ADA-compliant sidewalks to create a complete Enhance pedestrian accessibility, safety, and sidewalks system
- businesses and patrons

from the focus groups and provides the data to the steering

committee and design team for their use in developing based on the needs and desires expressed by residents

community centered transportation enhancements

lowa State University processes the information collected

participating in the focus groups, surveys, and public design

- Increase community identity and visual connectivity throughout Wheatland and to community assets by creating a way-finding system which integrates elements that strengthen Wheatland's identity
- residents by improving city parks and creating multi-Create more outdoor recreational opportunities for

use trails within Wheatland and to neighboring Calamus

Refer to board 5, "Goal Setting," for further details related to

the community goals noted above.

Capturing the Wheatland Vision

design team developed transportation-based community improvement project concepts, which are illustrated in the Based on the needs and desires of the local residents, as well as a detailed inventory of community resources, the following set of presentation boards:

- 1. Program Overview
- Bio-regional Assessments
- 3. Transportation Assets and Barriers Assessment
- 4. Transportation Inventory
- Concept Plan Overview
- Community Entryways Community Identity
- 9. Accessibility & Connectivity
- 10. Lighting & Sidewalks
- 11. Primary Corridors

- 13. Lions Park & City Park
- 14. Downtown
- 15. Implementation

presentation boards are identified as Cal-Wheat boards and with Calamus which addresses the proposed trail segment connecting Wheatland to Calamus. These supplemental This board set is supplemented by a shared set of boards include the following four boards:

- 1. Trail Plan & Identity
- 2. Trailhead
- 3. Trail Enhancements
- 4. Syracuse Bridge Area



FLENKER LAND ARCHITECTURE CONSULTANTS, LLC

Interns: TJ Hillberry, Paola Monllor-Torres and Ethan Morrow LA: Meg Flenker, PLA, ASLA, CPESC, CPSWQ

8 SUMMER **2021**

Capturing the Wheatland Vision

Based on the needs and desires of the local residents, as well as a detailed inventory of community resources, the design team developed a conceptual transportation enhancement plan. This plan, as well as the inventory information, is illustrated in the following set of presentation boards. These boards include the Program Overview, Bioregional Assessment, Transportation Assets and Barriers Assessment, Transportation Behavior and Needs Assessment, Hispanic Interview, Transportation Inventory and Analysis, Concept Overview, and Community Design Boards.



Bioregional Assessment

Historical Settlement Patterns

This board uses a map from A.T. Andreas' Illustrated Historical Atlas of the State of Iowa, 1875 overlaid with present-day town boundaries and water bodies. Published in 1875, Andreas' Atlas is an extraordinary resource showing the post-Civil War landscape of Iowa, including settlement features (towns and villages, churches, schools, roads, railroads, etc.) and landscape features (water bodies, vegetated patches such as timber and swamp, and major topographic features). A high-quality scan of the Atlas has been arranged to correspond closely with present-day map, revealing major landscape changes as well as features that have persisted, such as railroad rights-of-way and in some cases remnant vegetation patches.

Wheatland in Context

Compare the 1875 boundaries of your town to the current boundaries. How much has your town grown?

Compare the course of the rivers in 1875 to their current course. Are there major changes in alignment or location? Are there vegetation patches shown in the 1875 map still in existence?



Historical Vegetation

The vegetation information shown here is derived from township maps made by the General Land Office (GLO) surveys beginning in 1836 through 1859. This information was digitized in 1996 as a resource for natural resource management and is useful "...for the study of long term ecological processes and as baseline data for the study of present day communities." 1

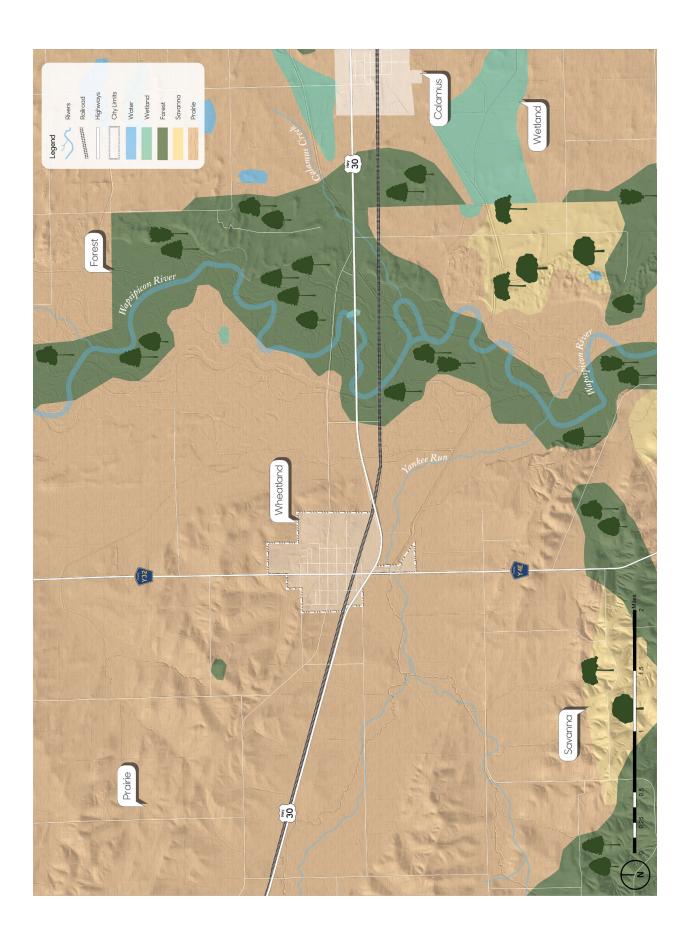
The plant community names mapped by the GLO surveyors varied. The original terminology they used has been preserved in the original data, but we have renamed them on this map to reflect names used to describe contemporary vegetation communities.

Not all communities will have all vegetation types, because various conditions that affect vegetation—such as geology, wind exposure, seasonally high water or groundwater, and frequency of fire—differ from place to place. Early land surveyors mapped the following vegetation types, some of which may not be present in the vicinity of your community:

The vegetation types are defined¹:

- 1. <u>Forest</u>: Tree dominated, with a mostly closed canopy. Ground vegetation shade tolerant, developed under infrequent fire.
- 2. <u>Wetland</u>: Perennial, non-woody plants; water and fire dominated.
- 3. <u>Prairie</u>: Perennial non-woody plants; fire dominated.

¹ J.E. Ebinger, "Presettlement Vegetation of Coles County, Illinois," Transactions of the Illinois Academy of Science (1987): 15-24, quoted in Michael Charles Miller, "Analysis of historic vegetation patterns in lowa using Government Land Office surveys and a Geographic Information System" (master's thesis, lowa State University, 1995), 8.



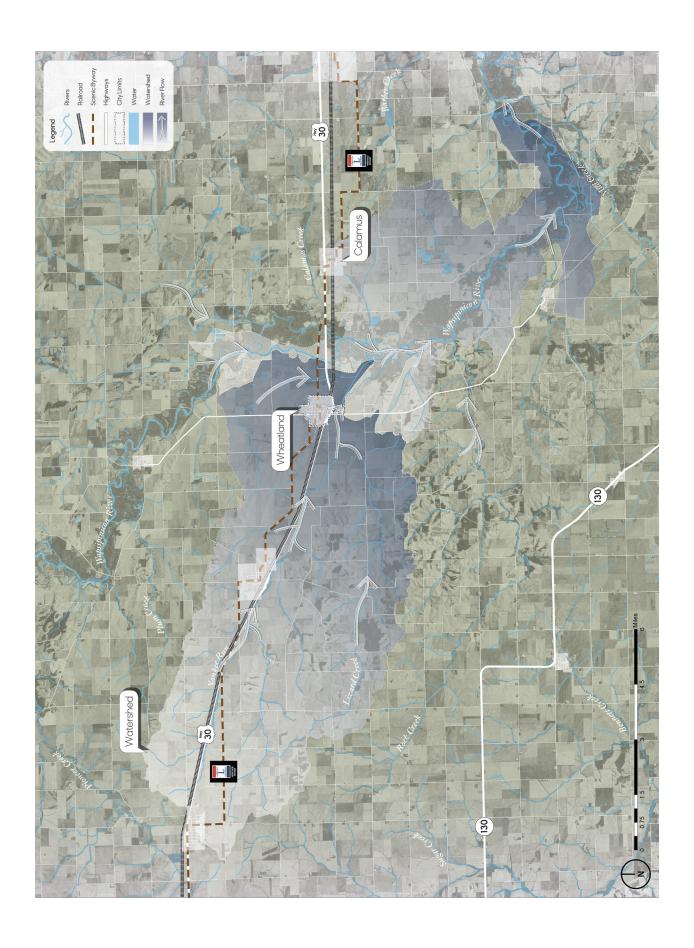


Regional Watershed

A watershed is a defined area or ridge of land with a boundary that separates waters flowing to different rivers, creeks, or basins. Watershed boundaries show the extent of a drainage area flowing to a single outlet point and determine whether precipitation is directed into one watershed or an adjacent watershed.

It is important to note that there are multiple levels of watersheds; for instance, the lowa River watershed is composed of a dozen smaller watersheds, and the lowa River watershed is a sub-basin of the Mississippi River watershed.

Where a community is located in relation to its surrounding watershed(s) determines its capacity to manage regional watershed issues such as flooding. For example, a community located near the end of a watershed (close to the outlet point) will have little capacity to reduce the amount of water draining toward it from upland areas.



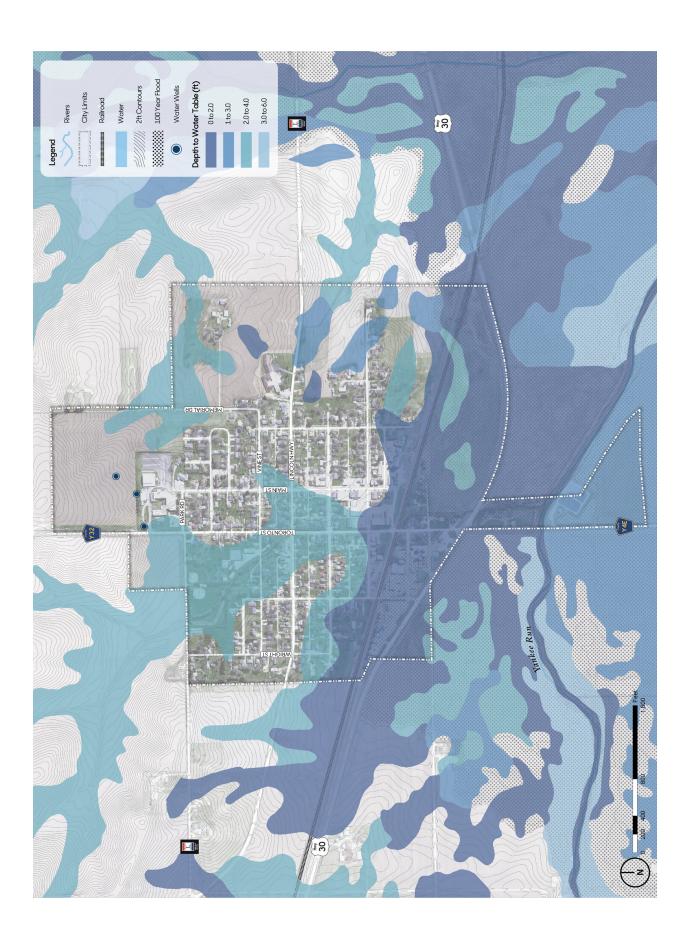


Depth to Water Table

The water table is defined as the distance below the surface at which the ground is saturated with water. Depth to water table is represented as a range because it varies due to seasonal changes and precipitation volumes. For example, following spring snowmelt, an area with a depth to water table ranging from one foot to three feet is likely to be at or near one-foot depth.

The map shows how close to the surface groundwater can be. Pavement and foundations are affected by groundwater near the surface. Freezing and thawing and upward pressure of rising groundwater can cause cracks or "frost boils" in pavement. Foundations can be wet and require "dewatering," which can be expensive.

Where the value is less than zero feet, water can well up out of the ground. This causes localized looding, even if there is no surface water draining to the area.

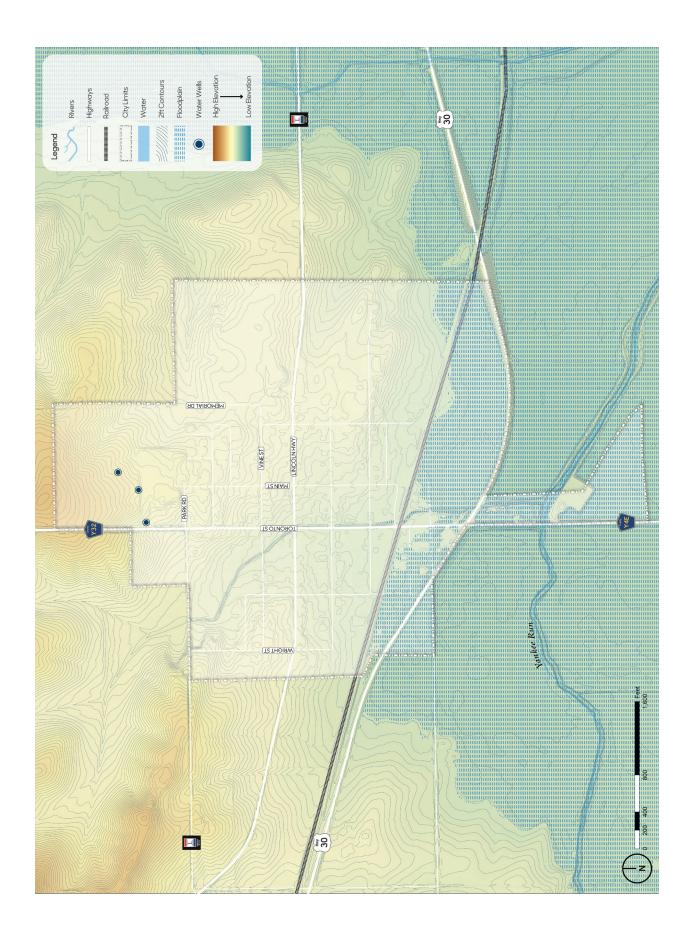


Elevation and Flow

This map displays topographic differences in elevation using a combination of contour lines and the color gradient depicted in the legend. The high and low points have also been located. Note the relationship of your community to the surrounding elevation. Is it located in a valley or on high ground, or is it split between the two?

If your community lies within or near a floodplain or floodway, the map reflects these features. Not all communities will have these elements; if they are absent on this map, none are present.

Flood risk is correlated to low-lying land. This map shows your community's flood risk as defined by the Federal Emergency Management Agency (FEMA) Flood Map Service Center. The map shows the two most important flood zones if present: the Base Flood and the Regulatory Floodway (consult legend). Base Flood is the zone having a 1% chance of being equaled or exceeded in any given year, also referred to as the "100-year floodplain." The Regulatory Floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% flood discharge can be accommodated without increasing the base flood elevation.



Present-day Land Cover

The land-cover map depicts both natural and man-made land cover types with aerial imagery. The lowa DNR created 15 unique classes for this dataset to differentiate land covers. Refer to the legend for a breakdown of land-cover types within your community boundaries.

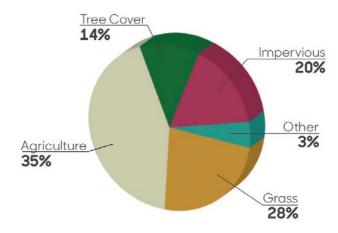
What do you observe about the dominant landcover types in your community?

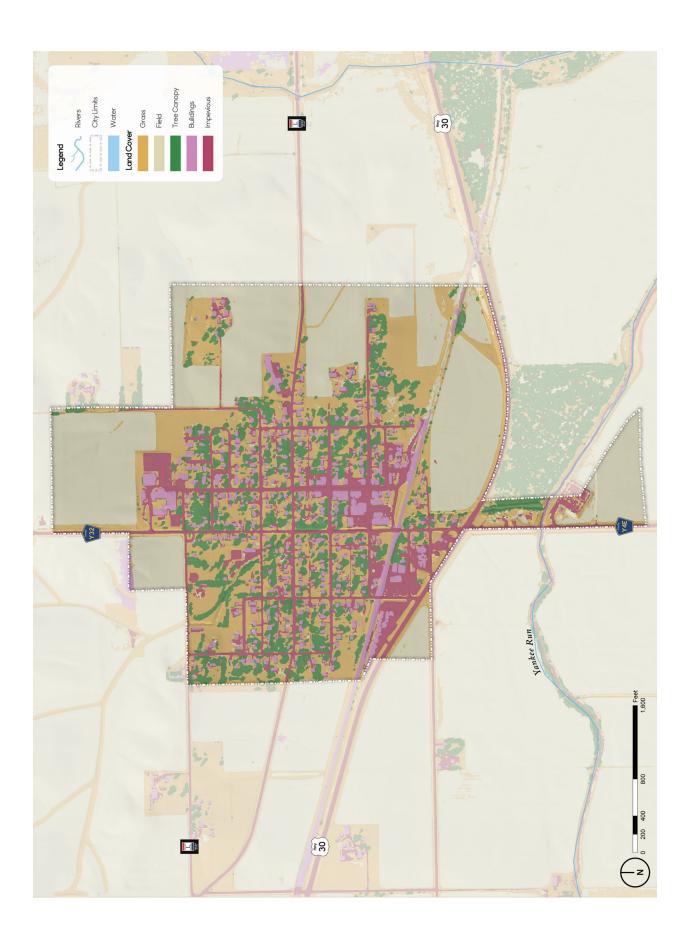
Where is the tree canopy most concentrated?

Look at how much of your community consists of impervious surfaces (e.g., parking lots, roads, buildings) compared to the other surfaces (e.g, water, grass, and agriculture). What does this mean for surface-water movement?

Tree cover affects microclimate. Are places surrounded by canopy more pleasant in the summer? How do these places feel in the winter?

Percent Land Cover Type







Landscape Change Over Time

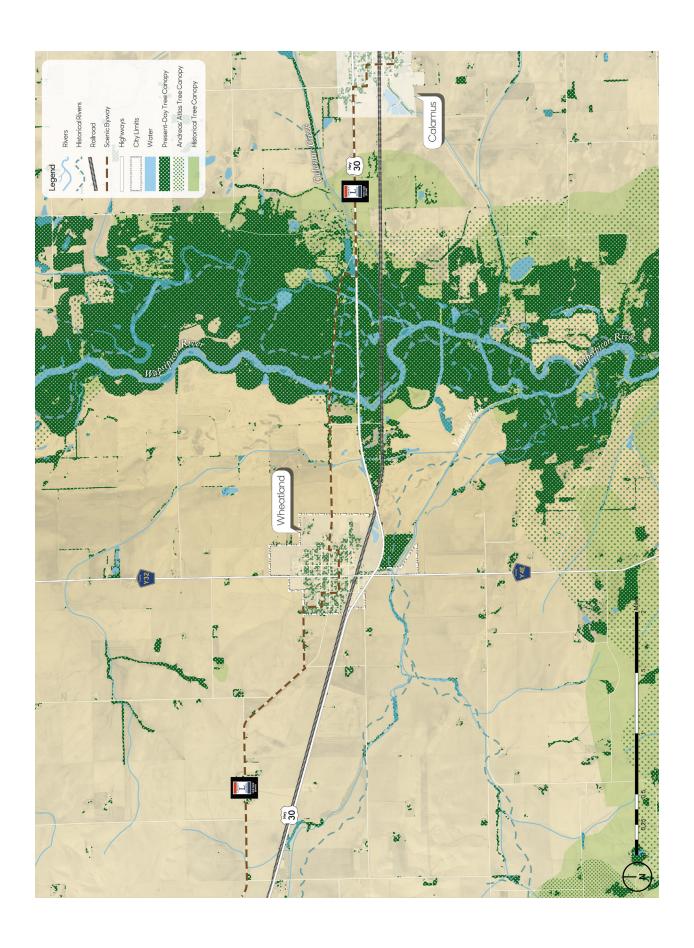
The map on this page shows how the landscape has changed over time, with an emphasis on vegetation and drainageways. The map is helpful for understanding how landscapes change and considering how these changes might affect how well the landscape works to support human and ecological needs.

Trees are invaluable. They clean the air, create shade, and cool the atmosphere. They intercept rainfall and consume groundwater, which helps mitigate stormwater runoff. Carefully chosen and placed trees provide communities identity and residents with a sense of home. In lowa, a prairie state, we increased tree cover to create shade and a sense of enclosure within rural towns. Lack of natural fires and burning has also generally increased tree cover along rivers and floodplains. Other areas of trees have diminished due to clearing for roads, agriculture, or other purposes.

What changes do you see to the tree canopy surrounding your community? Where has the tree canopy decreased? Where might the tree canopy have increased? Consider what changes to the landscape might have led to the increase or decrease of trees in the region (e.g., farming practices, community development, establishing homesteads and windbreaks, preservation of natural resources).

This map also shows current and historical stream and river corridors. Alterations to waterways such as channelization have been made to increase drainage, but can lead to increased erosion, sediment movement, and flooding where the straightened portion ends. Storm sewers also affect streams and waterways where outfalls drop urban runoff into the corridor, which can dramatically decrease water quality. How have streams and rivers changed? Do these changes appear to be man-made or natural?

¹ This map shows the difference between the present day tree canopy gathered from the DNR's Land Cover data and past landscape cover, as defined in the General Land Office (GLO) surveys from 1836 through 1859 and the A.T. Andreas' Illustrated Historical Atlas of the State of Iowa from 1875.





Transportation Assets and Barriers

Overview

Transportation is integral to small-town life and a vibrant economy. In the context of the Community Visioning Program, we recognize walking, biking, and driving as quintessential modes of travel to various destinations important to residents and visitors. Access to these destinations is crucial for many everyday activities—getting to work and school, participating in community events, and providing for basic needs such as food, health care, and healthy activity.

In this participatory assessment, we want to find out which factors and conditions affect transportation use in Wheatland, where these factors and conditions are most prevalent, and how they influence route and transportation choices locally. Because residents have the best knowledge of how Wheatland's transportation system works, we use focused, small-group conversations, mapping, and photos of the best and worst places taken by residents to understand local transportation.

Different Users = Different Needs

To capture insights about transportation from a variety of perspectives, we invited Wheatland residents with different transportation needs to participate in focus groups. A total of 32 residents attended Wheatland's workshop. Participants were separated into five user groups and the Wheatland steering committee.



This user group represents those in the community who engage in outdoor recreation, including cycling, walking, running, swimming, skiing, etc. The availability of multiple venues for outdoor recreation matters to this group.



This user group is directly affected by accessibility barriers such as high curbing and uneven sidewalks that make it difficult to operate mobility-aiding equipment effectively. Handicapped parking, curb ramps, and smooth surfaces are critical transportation features.



Accessibility—both in terms of physical access and proximity—is a major concern for this user group. Because some people in this user group do not or are unable to drive, having goods and services within walking distance is important.



This group uses primarily non-motorized modes of transportation, so pedestrian- and bike-friendly streets and sidewalks are important. These users value the ability to get to destinations on foot or via bicycle and having goods and services within walking distance.



Safety of their children is a primary concern of this user group. Access to safe and easy routes to school activities is another significant factor to this group. Parents of young children desire smooth, wide surfaces for strollers.

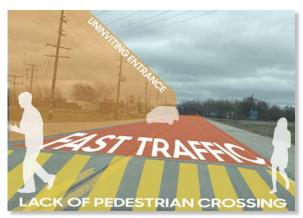


The common denominator for this user group is that their observations are influenced by special knowledge of the transportation system acquired during the Community Visioning assessment process. As a result, this group is more representative of decision makers.

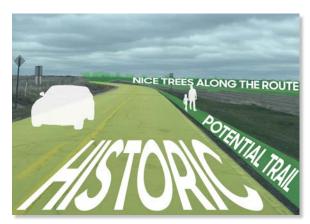
Steering Committee



Lion's Park provides an inviting entrance into Wheatland.



Highway 30 has fast-moving traffic and lacks pedestrian access to its businesses.



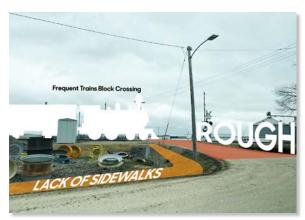
Historic Lincoln Highway serves as a connection between Wheatland and Calamus and is appreciated for the natural scenery along it.



The intersection of 130th Street and Vine Street has no sidewalks nor pedestrian access to the City Park.



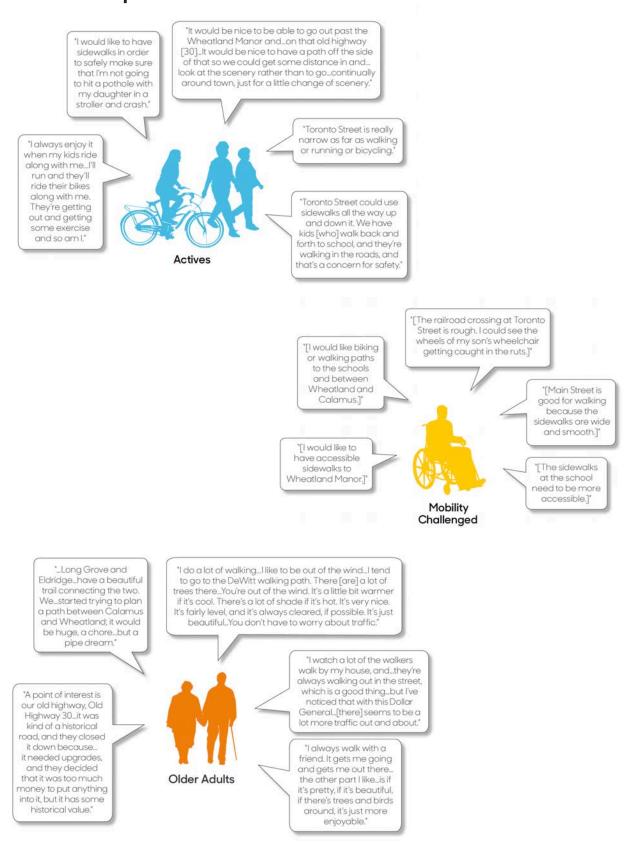
Main Street is appreciated for its wide, accessible sidewalks, parking, and businesses.

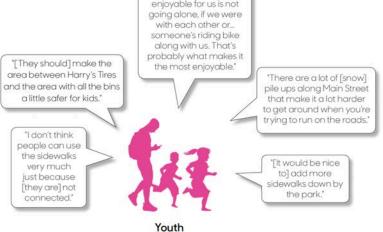


The railroad crossing along S. Williams Street is rough and often blocked by trains.



What People Said









Emerging Themes

Discovering themes and consistencies among user groups helps the steering committee to identify solutions to address the needs of all. The chart on the opposite page displays each user group's collective thoughts on particular issues in comparison with the other user groups in the community.

Actives get around by driving, walking, and driving gators. This group enjoys running along the old Lincoln Highway because there is little traffic and the road is flat. Actives want a walking path near the nursing home to make it safer for running and to create more activity for residents.

Mobility-challenged individuals rely on driving and walking to get around town. Smooth, wide surfaces are important. This group would like accessible sidewalks near the nursing home and a connection between the ball fields and the playground at Lions Park.

Older adults walk and drive to most destinations. Safety, visual appeal and good company are important to them when walking. This group would like a scenic walking path where people don't have to worry about traffic.

Youth enjoy activities in town such as swimming at the pool, kayaking, and walking dogs. They appreciate many aspects of the Lions Park, but would be delighted to have new playground equipment, better facilities, and a splash pad.

Parents said that they mainly walk around town. They have a few concerns with Lions Park such as lack of parking, poor conditions of the parking lot, and an absence of connectivity to the ball park from the playground.

Steering committee members bike, walk, and drive around town. This group would like way-finding signage directing visitors to destinations such as the high school and local parks. Committee members also want signage and flashing lights at the intersection of 130th Avenue and Highway 30.

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Transportation Behaviors and Needs

Overview

The survey gives the visioning steering committee objective, representative information for the goal-setting phase of community visioning. The quantitative data collected from survey responses complements the qualitative information gathered from the focus groups at the transportation assets and barriers workshop.

The modes of transportation that residents use and the routes they take suggest suitable types of transportation enhancements in these areas. Having a sense for people's willingness to help either financially or with their time is important because many transportation enhancements are funded from multiple sources, including grants, private donations, in-kind contributions, and volunteers. Understanding what types of improvements are important to residents gives the committee insight into how to prioritize projects.

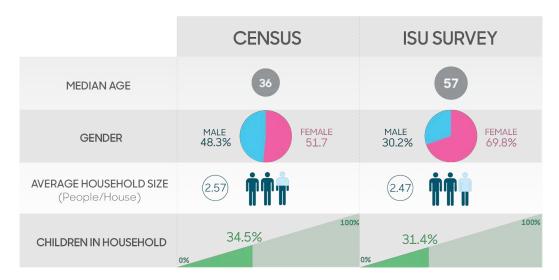
With assistance from lowa State University's Survey Research Services staff in the Center for Survey Statistics and Methodology (CSSM-SRS), ISU visioning program staff conducted a survey to better understand the transportation patterns, behaviors, needs, and desires of Wheatland residents. Surveys were mailed to 260 randomly selected residents living in Wheatland and the surrounding area. To increase the response rate, the study was publicized through the local media and follow-up packets were mailed to nonrespondents. With adjustments for ineligible respondents (e.g., incorrect addresses, no longer living in the community), the final sample size was 230. A total of 119 people returned surveys, for a response rate of 51.7%. (A response rate of 20% is considered valid.)

We asked survey recipients what routes they use most often for going to work, walking, and biking. In addition, we asked what qualities and features are important during these activities. We also discovered what residents think is most important in terms of transportation enhancements that address issues such as accessibility, mobility, and safety. Finally, we learned whether or not residents are willing to contribute their time or their financial resources to making enhancements to Wheatland. This series of boards summarizes the results of the survey as follows:

- Willingness to Help
- Enhancement Priorities
- Commuting Routes
- Walking Routes
- Biking Routes
- Regional Biking Routes

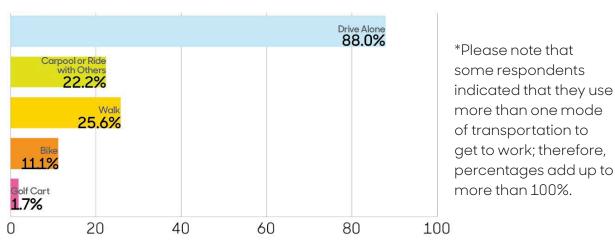
How We Did

The demographics of the respondents are somewhat different from those obtained from the 2019 American Community Survey Five-Year Estimate and the World Population Review. For example, the survey respondents median age of 57 is significantly older than the 2019 estimated average age for Wheatland residents of 36. In terms of gender, the percentage of female survey respondents is significantly higher than that of the census. Average household size of survey respondents and the percentage of households with children among survey respondents are lower than those of the census estimate.



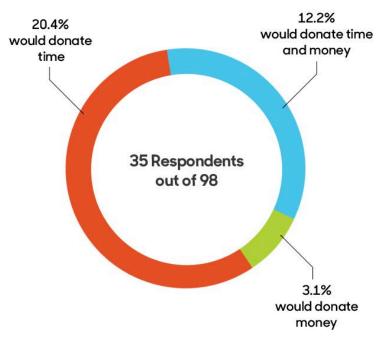
How Wheatland Residents Travel

Most survey respondents drive to important destinations such as the convenience store, the post office, school, and church (88%). More than 22% carpool or ride with someone else. More than 25% of respondents indicated that they walk, 11.1% bike, and 1.7% drive golf carts.





Willingness to Help



Most survey participants who answered this question are willing to contribute their time to community improvements (57.1%), while 12.2% would contribute their time and money. More than 3% of respondents indicated that they would be willing to contribute financially.

Compared to other small towns in lowa, Wheatland residents are somewhat less willing to become involved in improving their community. In 2014, on average, 43% of residents in small, rural towns volunteered to help with a community project. Wheatland's average is 8% lower.

In 2014, the most common reason residents in small-town lowa said they didn't become involved in community projects is that no one asked them (34%). Twenty-eight percent on average said that they don't have time, which is significantly lower than the 2004 average of 59%. Sixteen percent indicated that they didn't know how to become involved, and 7% said that no community project needed volunteers. These results indicate that the best ways to get people involved in community projects is to simply ask, along with advertising opportunities through traditional and social media outlets.

¹ Sigma: A Profile of Iowa Small Towns 1994 to 2014 (Ames, IA: Iowa State University College of Agriculture and Life Sciences, 2015).

Survey Participants Said...



"I know of many people who live in the area [who] drive/transport their bikes to other areas with trails to ride outside."

"[We] need a dog park that is also accessible to seniors and those with impairments with parking nearby."





"[1] would like better sidewalks for stroller use."

How Do You Get People to Help? Ask, Show, and Advertise Opportunities

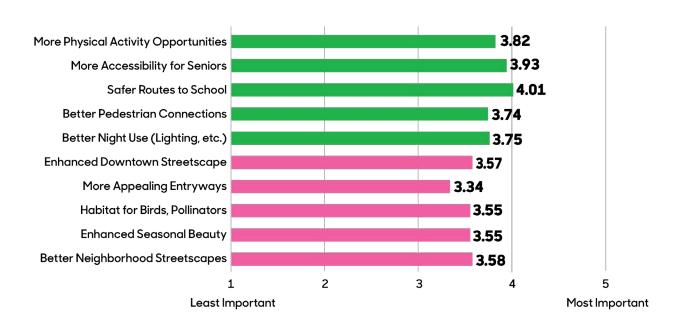
In 2014, the most common reason residents in small-town lowa said they didn't become involved in community projects is that no one asked them (34%). Twenty-eight percent on average said that they don't have time, which is significantly lower than the 2004 average of 59%. Sixteen percent indicated that they didn't know how to become involved, and 7% said that no community project needed volunteers. These results indicate that the best ways to get people involved in community projects is to simply ask, along with advertising opportunities through traditional and social media outlets.

² Sigma: A Profile of Iowa Small Towns 1994 to 2014 (Ames, IA: Iowa State University College of Agriculture and Life Sciences, 2015).

Priorities

On a scale of 1 to 5, with 5 being the most important, participants in Wheatland ranked creating safer routes to school as most important, with a mean value of 4.01. Other types of transportation enhancements that address pedestrian mobility, health, and safety are also considered important, such as improving accessibility for seniors (3.93) and creating more opportunities for physical activity (3.82). In terms of quality of the built environment, survey respondents consider better neighborhood streetscapes as most important (3.58), followed by enhanced downtown streetscape (3.57), and enhanced seasonal beauty and habitat for birds and pollinators (3.55 each). These responses are consistent with improvements that focus–group participants suggested.





Survey Participants Said...



"Wheatland and the surrounding area have beautiful scenery that could be capitalized on while improving our community's access to physical activity."

"I would love more safe areas for our people in town to walk and ride bikes." citizens."





"[I] would love to walk on Hwy 30 but it's unsafe due to narrow roads and cars driving too fast. [We] need [a] separate walk/bike path to feel safe on that road. And all of our track/cross country kids run on that road [from] Wheatland towards Calamus almost daily."

"My children love biking, walking and riding their scooters. I wish we had better sidewalks or a dedicated walking, biking, scooter trail that was safe."



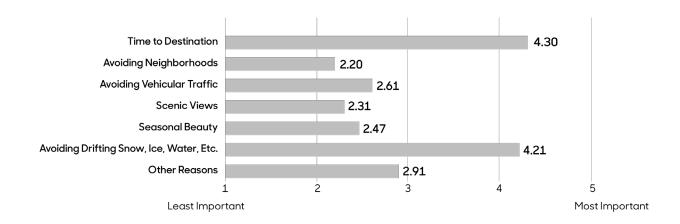
Routes to Work and School

This map shows the commuting routes identified by 70 survey respondents, 8 of whom were high school students who identified the routes they take to school. The frequency that the routes are used is depicted by their width, with most frequently used routes being the thickest. The primary commuting route in Wheatland is Toronto Street from Lincoln Way south to US Highway 30, from where most commuters go east. A number of people also travel east from Main Street on Lincoln Way. Toronto Street north to the high school is also frequently traveled, as well as Williams Street from Washington Street to US 30.

The circulation patterns that emerge when routes for biking, walking, and commuting are overlaid suggest suitable types of transportation enhancements. For example, where pedestrian and vehicular traffic intersect, such improvements could include creating better visibility, defining crossing points, or improving signage.

Why They Go That Way

On a scale of 1 to 5, with 5 being the most important, survey participants ranked the characteristics and features that factored into their choice of commuting route. Among Wheatland participants, time to destination is the most important factor, with a mean value of 4.30. Avoiding weather-related issues such as snow and ice (4.21) is the second most important factor determining commuting routes. Scenic views, seasonal beauty, and avoiding neighborhoods and vehicular traffic are not critical factors in determining commuting routes.

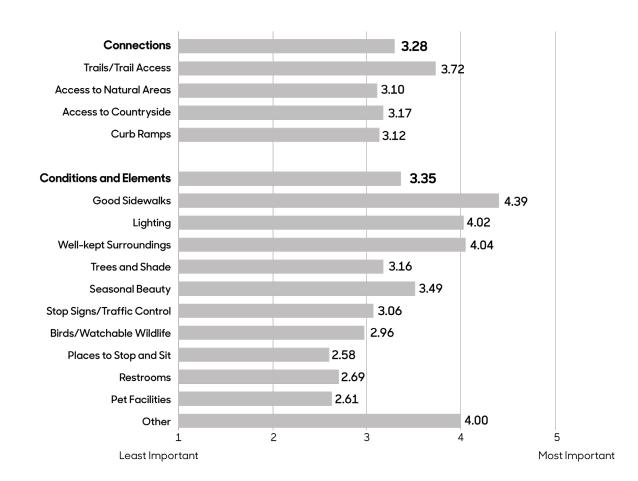


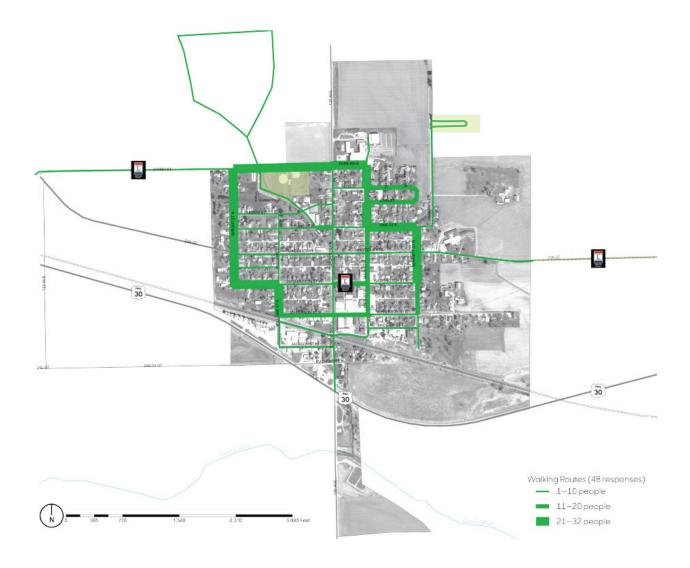
Walking Routes

This map shows the walking routes identified by 48 survey respondents, 2 of whom were high school students. The frequency that the routes are used is depicted by their width, with most frequently used routes being the thickest. Walkers in Wheatland tend to make a loop around the community on the peripheral streets, including Park Road, Wright Street, Washington Street, Williams Street, Jefferson Street, Bennett Street, Vine Street, and Main Street. Some people also include the loop of lowa and High Streets. Walkers go to St. Paul's Cemetery, and some follow along the west side of the Lions Park and then head north out of town. A few people walk along the Lincoln Highway Heritage Byway as well.

Why They Go That Way

On a scale of 1 to 5, with 5 being the most important, survey participants ranked the characteristics and features that made their walking experience better. These features are categorized as either "connections" or "conditions and elements." Among Wheatland participants, conditions/elements are of somewhat more important than connections, with mean values of 3.35 and 3.28, respectively. In terms of connections, access to trails is most important with a mean value of 3.72. Good sidewalks (4.39) are the most important element to walkers, followed by well-kept surroundings (4.04) and lighting (4.02). Other factors (4.00) affecting the routes that walkers take include road conditions.



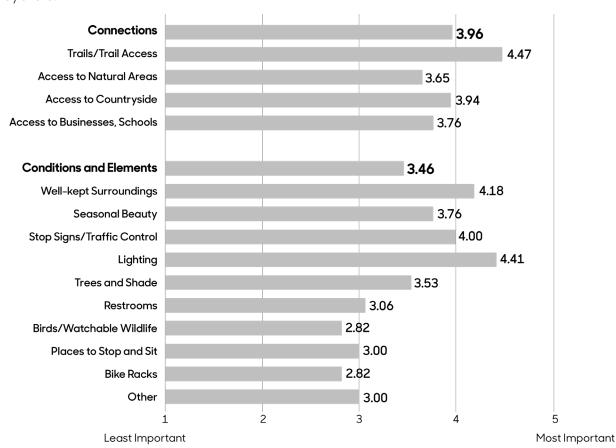


Biking Routes

This map shows the biking routes identified by 24 survey respondents, 4 of whom were high school students. The frequency that the routes are used is depicted by their width, with most frequently used routes being the thickest. Like walkers, bikers in Wheatland ride the peripheral streets—Park Road, Wright Street, Washington Street, Williams Street, Jefferson Street, Bennett Street, Vine Street, and Main Street—to make a loop around town. A good number of cyclists ride the Lincoln Highway Heritage Byway, primarily going east out of town, though some do go west.

Why They Go That Way

On a scale of 1 to 5, with 5 being the most important, survey participants ranked the characteristics and features that made their biking experience better. These features are categorized as either "connections" or "conditions and elements." Among Wheatland participants, connections are significantly more important than conditions/elements, with mean values of 3.96 and 3.46, respectively. In terms of connections, access to trails is most important with a mean value of 4.47. Access to the countryside (3.94) is the second most important connection. The most important factor affecting route choice among cyclists is lighting (4.41), followed by well-kept surroundings (4.18) and stop signs/traffic control (4.00). Seasonal beauty (3.76) and trees and shade (3.53) are also significant elements to cyclists.



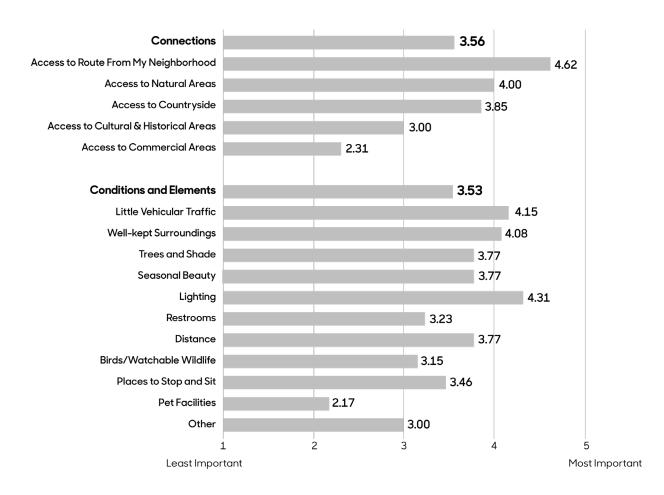


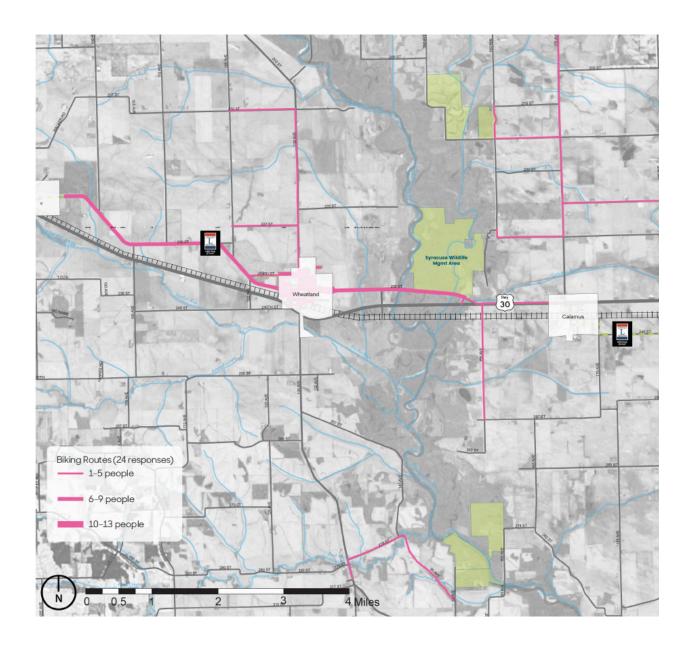
Regional Bike Routes

This map shows the biking routes identified by 24 survey respondents, 4 of whom were high school students. The frequency that the routes are used is depicted by their width, with most frequently used routes being the thickest. The Lincoln Highway Heritage Byway is the most heavily used route among Wheatland cyclists, who bike both east out of town to the Syracuse Wildlife Management Area and on to Calamus and west out of town to Lowden. Some people bike the roads west of Sherman Park and some travel north and east near Mockridge County Wildlife Preserve.

Why They Go That Way

On a scale of 1 to 5, with 5 being the most important, survey participants ranked the characteristics and features that made their biking experience better. These features are categorized as either "connections" or "conditions and elements." Among Wheatland participants, connections have roughly the same importance as conditions/elements, with mean values of 3.56 and 3.53, respectively. In terms of connections, access to trails is most important with a mean value of 4.62. The most important factor affecting route choice is lighting (4.31), followed by little vehicular traffic (4.15), and well-kept surroundings (4.08). Trees and shade, seasonal beauty, and distance are equally significant, each with a mean value of 3.77.

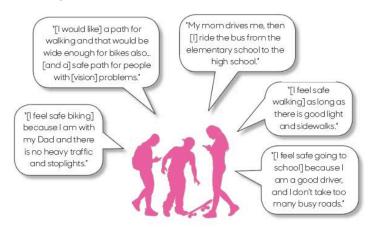






High School Transportation Survey

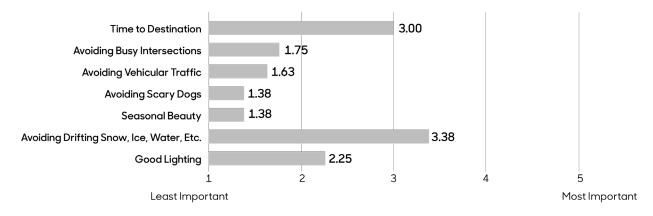
What They Said



Going to School

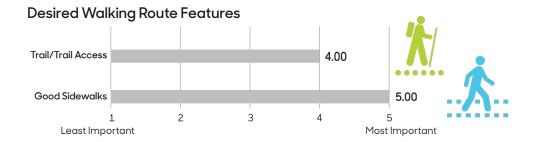
High school survey respondents were asked how they travel to school. The majority reported that they carpool or ride with someone else (62.5%). More than one-third indicated that they drive alone (37.2%), 25% walk to school, and 25% take the bus. Some respondents indicated that they use more than one mode of transportation to get to work; therefore, the percentages add up to more than 100%.

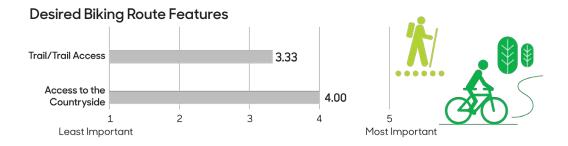
Respondents were also asked to draw the routes that they take to school on a map. These routes are included with the commuting routes identified by Wheatland residents, shown on board 4d. They were also asked to rank characteristics and features that factored into their choice of route to school on a scale of 1 to 5, with 5 being the most important. Among high school survey participants, avoiding weather-related issues such as snow and ice is the most important factor, with a mean value of 3.38. Time to destination (3.00) is the second most important factor determining routes to school. Avoiding busy intersections and vehicular traffic, avoiding scary dogs, seasonal beauty, and lighting are not considered important.



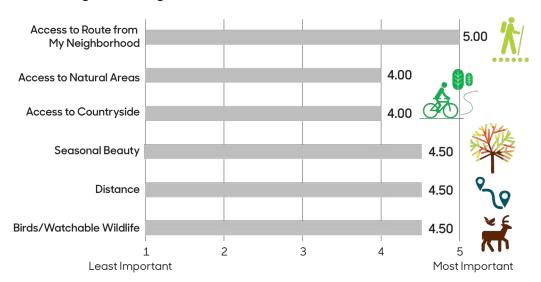
Walking & Biking

Survey respondents were asked to draw the routes that they walk and bike in town, as well as out-of-town biking routes. These routes are included with the routes identified by Wheatland residents. They were also asked to rank characteristics and features that factored into their choice of routes on a scale of 1 to 5, with 5 being the most important. The most popular features for walking, in-town biking, and out-of-town biking are summarized here.





Desired Regional Biking Route Features



Transportation Inventory and Analysis

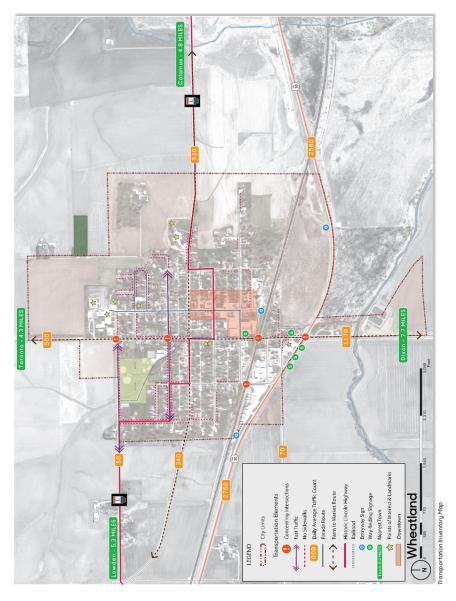
Knowledge of the transportation systems in and around a community is critical for sustainable transportation enhancement planning. Wheatland's transportation system includes roadways, sidewalks, and an active railroad.

The Wheatland visioning design team met with the local officials to identify existing, past, and future transportation system capital improvements, maintenance activities and issues, and other transportation-related constraints and opportunities in the area.

Several transportation-related assets and opportunities include destinations and activities such as Lions Park, City Park, Cal-Wheat High School, Wheatland Manor, the historic Lincoln Byway, and the nearby boat ramp and state owned Syracuse Wildlife Management Area.

Items of concern related to Wheatland's existing transportation system include:

- sidewalks poor connectivity and segments that are missing, uneven, don't meet ADA requirements, and/or are otherwise in poor repair;
- multi-use trail lack of a trail system within and around Wheatland and between Wheatland and Calamus;
- rail-road periodic stopped trains prevent access to Hwy. 30 from the north and access to Wheatland from the south;
- lighting lack of or insufficient lighting along major pedestrian and vehicular routes threaten the safety of users.



Transportation Inventory

Summer **2021**

Knowledge of the transportation systems in and around a community is critical for sustainable transportation enhancement planning. Wheatland's transportation system includes roadways, sidewalks, and an active railroad.

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Due to the lack of atrail system combined with a sidewalk system that is incomplete, narrow, and has segments that are infair to poor condition, pedestrians and cydists are forced to utilize the streets.



Poorly maintained and "disappearing" sidewalks contribute to poor pedestrian accessibility and connectivity.

Wheatland

Transportation Inventory

FLENKER LAND ARCHITECTURE CONSULTANTS, LLC

LA: Meg Flenker, PLA, ASLA, CPESC, CPSWQ Interns: TJ Hillberry, Paola Monllor-Torres and Ethan Morrow



Community Concept Plan

The lowa's Living Roadways Community Visioning program provides the unique opportunity for communities to receive professional assistance in grass roots community planning and design along transportation corridors. Over an approximately 9 month visioning process, Wheatland residents participated in creating a concept plan (this board set) that focused on enhancing the safety, accessibility, circulation, connectivity and aesthetics of the community. In addition, the community members envisioned opportunities to create additional recreational activities that would engage more residents of all ages & abilities to enjoy.

The concept master plan shown on board 6 consists of enhancements that are based on the input received from the Wheatland residents throughout the visioning process. The concepts integrate the community members various ideas and visions for improvements in such a way as to cohesively meet the values and goals established by the community during the TAB workshops.

The concepts illustrated in the board set are the "big picture" ideas. They show the overall design intent and provide direction for everyone involved on how all of the "pieces" will integrate so that there is unity among all of the various projects as they become implemented over time as funding and other resources allow. The concept plan allows for long-term visioning and planning which is essential for the community to be able to provide sustainable, functional, and beneficialimprovements that are holistic and well integrated as well as provide them with the best overall return on their investment.

Icons used on board 5 to symbolize community values/themes are shown on board 6 to denote the location(s) envisioned for the supporting enhancements to occur. The boards that provide more information and illustrations are listed with it.



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LIONS & CITY PARK IMPROVEMENTS

See board 7 & 13

ACCESSIBILITY & CONNECTIVITY
Priority sidewalks; see boards 9,10, & 11

Trail; see board 12 and Cal-Wheat boards 1-4

the Wheatland residents throughout the visioning process. The concepts integrate the community members various enhancements that are based on the input received from cohesively meet the values and goals established by the ideas and visions for improvements in such a way as to The concept master plan to the right consists of community during the TAB workshops. The concepts illustrated in this board set are the "big picture" envisioned for the supporting enhancements to occur. The thernes are shown on this board to denote the location(s) ideas. They show the overall design intent and provide lcons used on board 5 to symbolize community values/ "pieces" will integrate so that there is unity among direction for everyone involved on how all of the all of the various projects as they become holistic and well integrated as well as provide them with the best overall implemented over time as funding and other resources allow. The concept plan allows for long-term visioning and planning which is essential return on their investment. for the community to be sustainable, functional, improvements that are able to provide and beneficial

STORM WATER QUALITY
Priority areas, See
boards 11, 12 & 13

100

999 DOWNTOWN STREETSCAPE See boards 10 & 14

> boards that provide more information and illustrations are listed with it.

Wheatland

Concept Plan Overview

FLENKER LAND ARCHITECTURE CONSULTANTS, LLC

Interns: TJHillberry, Paola Monllor-Torres and Ethan Morrow lowa State University | Trees Forever | Iowa Department of Transportation LA: Meg Flenker, PLA, ASLA, CPESC, CPSWQ



♣ Entryway signage; see boards 7 & 8
 ● Way-finding signage, see boards 7,10 & 11

SIGNAGE

Priority areas; see boards $10 \, \& \, 11$

DECORATIVE LIGHTING
Priority greds; see b





Cost Opinion Summary

Design Expertise Recommended

The proposed projects may require help beyond the capacity of the visioning committee or available city staff. For all proposed improvements, the committee should expect to involve additional professional design consultants, including, but not limited to landscape architects, civil engineers, structural engineers, and electrical engineers for detailed design, construction documentation, bidding assistance and construction administration services.

Coordination with other public agencies, including permitting, may be required for some projects depending on the location and scope of work. Coordination and contact should be made during the design stage and <u>PRIOR to commencing work</u>. Some of these agencies may include one or more of the following:

- Clinton County Engineer: Any work within and adjacent to the public right-of-way along the Highway Y-32, Lincoln Higway and Highway Y-4E
- lowa Department of Transportation, District Engineer: Any work within and adjacent to the public right-of-way along Lincoln Highway and Highway 30
- Union Pacific Railroad: Any work within or adjacent to the railroad right-of-way
- United States Army Corps of Engineers Rock Island District: Any work (includes bridge work) within, directly adjacent to, or which may have an impact on a stream/creek and/or wetland
- lowa Department of Natural Resources: Any work (includes bridge work) within a stream/creek, wetland, and/or floodplain, including the Syracuse Wildlife Managment Area.
- Clinton County Conservation Board: Any work within or adjacent to Clinton County Conservation areas
- lowa Natural Resources Conservation District Office: Work within any privately owned undeveloped land

It is highly recommended that the visioning committee and city jointly reach out to East Central Intergovernmental Association (ECIA) to share with them the proposed projects and inquire about possible programs and funding opportunities that could help facilitate the implementation of each project. This should be done as soon as possible.

Project Scope and Cost Opinion

These projects and their estimated budgets are detailed in the following preliminary opinions of probable construction costs (OPC Costs). Estimates presented here are based on industry sources, previous project bid tabulations and research and are based on contracted work (includes labor, materials, and equipment necessary to do the job). Costs are presented in 2021 dollars and can be expected to escalate in subsequent years.

The project scope, current bid environment, time of year, local site conditions, project schedule, labor, and material costs may affect actual bid items and construction costs differently than presented in the estimates.

Area takeoffs, square footages, and linear footages used to calculate and quantify amounts are approximate and should be considered "ball park" intended only for general budgeting and planning purposes. In addition, because the estimates are based off of concept drawings, various assumptions were made that may impact final bid items, quantities and/or project costs. These assumptions are normally resolved during the subsequent design phase when specific site information is made available through a site survey and the design is further developed and refined and specific design details are determined, including final scope of work, dimensions, elevations, materials, and desired quality. During the design phase the OPC Cost will need be updated.

A site survey should be provided prior to the design and construction of the following projects to validate and verify the quantities shown in the various OPC Costs.

Abbreviations used in the OPC Costs costs include:

AC = Acre EA = Each OH = Overhead T = Ton

AL = Allowance LF = Linear Foot SF = Square Foot CF = Cubic Foot LS = Lump Sum SY = Square Yard

CY = Cubic Yard MI = Mile TBD = To be Determined

The preliminary OPC Costs presented in this report are all based on the assumption that the work will be competitively bid and completed by qualified contractors. Some work items may be able to be completed by volunteers and/or city staff which may provide cost savings.



Description		pinion of Cost	Comments			
South Entryway	\$	59,288.94			Comments	
		•				
Secondary Sidewalks Connectivity (East-West)	\$	766,621.74				
			\$	54,318.18	High St.	
			\$	117,264.12	Iowa St.	
			\$	68,450.76	North St.	
			\$	240,207.63	Vine St.	
			\$	118,451.61	Washington St.	
			\$	82,075.50	Jefferson St.	
			\$	34,276.44	Madison St.	
			\$	13,081.02	Jackson St.	
			\$	38,496.48	Buchanan St.	
Secondary Sidewalk Connectivity (North-South)	\$	535,425.23				
to the state of th	Ť	000, 120,20	\$	148,654.98	Wright St.	
			\$	152,239.94	Williams St.	
			\$	96,533.07	N. Bennett St.	
			\$	137,997.24	Memorial Dr.	
Primary Corridor Enhancements	\$	4,230,728.66				
	Ė	,	\$	392,623.80	Highway 30	
			\$	1,081,644.80	Toronto St.	
			\$	1,348,319.34	Lincoln Hwy.	
			\$	615,569.01	Park Road	
			\$	659,142.27	Main St. (Not Downtown)	
			\$	133,429.44	Vine St.	
Trail Enhancements	\$	675,840.92				
	Ė		\$	36,225.00	Sharrow	
			\$	639,615.92	Separated Trail	
Park Enhancments	\$	1,158,639.72				
Downtown Enhancements	\$	2,455,478.16				
			\$	2,238,315.84	Downtown Streetscape	
			\$	217,162.32	Downtown Pocket Park	
Concept Enhancement Program Opinion of Probable Construction Cost	\$	9,882,023.38				

IMPORTANT: Estimates do not include removal of existing signage, property easements, land acquisition, utility modifications or site/boundary survey; it also does not include additional work to streets or remaining sidewalks shown on the plans as being in good condition unless otherwise noted in estimate (this includes addition of passing pads on 4' wide sidewalks to remain). The term utilities includes storm sewer, sanitary, water, and electrical. Costs assocated with permitting for projects is also not included.

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Community Identity

Overview

Community identity, also referred to as "branding", encompasses the core elements that make a community unique and special to those who work, live, and visit. Through the visioning process the visioning committee concentrated on "visual" identity components that included: an updated city logo, unified styles for site amenities such as decorative lighting and a complimentary way-finding signage system that included various types of signs, a community cap and banners.

An essential step in creating a successful community branding program is to establish design criteria which may include a specific color palate, materials list, style for site amenities and list of acceptable street trees and other vegetation that can be planted within the city's right-of-way. Adherence and enforcement of these guidelines, regardless of timing and phasing of enhancements is important, as it is in the repetition of the components that will strengthen the city's branding efforts.

City Logo

The community and visioning committee members worked with the design team to update their existing logo. Public comments received emphasized the need to incorporate grain bins and the railroad into the updated logo since they are such a strong part of Wheatland's history.

Figure 7a shows the existing logo, while figures 7b - 7e illustrate the updated logo with different color combinations.

As can be seen in figure 7f, the proposed logo would be incorporated into the signage and banners. The goal is to create instant recognition of the logo and associate it with Wheatland.

Way-Finding Signage

Way-finding signage that directed visitors to destinations such as the high school and local parks was identified as a priority during the TAB workshops.

A unified way-finding signage family is critical to establishing a sense of place that is easily recognizable to visitors that they are in Wheatland. As illustrated in Figure 7f, this is accomplished by the incorporation of the city logo, use of a consistent color palette and materials, and the repetition of other details. Site amenities, such as lighting can also be a vital part of way-finding.

Way-finding signage helps visitors orient and navigate themselves quickly and safely to important destinations within the community and to easily and quickly recognize public places.

unique and special to those who work, live, and visit. Through the visioning process the visioning committee concentrated city logo, unified styles for site amenities such as decorative lighting and a complimentary way-finding signage system that included various types of signs, a community cap and encompasses the core elements that make a community on "visual" identity components that included: an updated Community identity, also referred to as "branding",

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Figure 7b: Updated Logo 1





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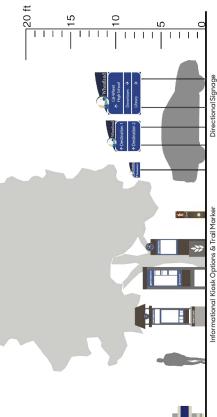
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within the community and to easily and quickly recognize themselves quickly and safely to important destinations Way-finding signage helps visitors orient and navigate



Figure 7e: Updated Logo 4

public places.



Wheatland

U Lion's Park

Park Signage Figure 7f: Proposed way-finding signage family

lowa's Living Roadways Visioning

Community Identity **Wheatland**

FLENKER LAND ARCHITECTURE CONSULTANTS, LLC LA: Meg Flenker, PLA, ASLA, CPESC, CPSWQ Interns: TJ Hillberry, Paola Monllor-Torres and Ethan Morrow

lowa State University | Trees Forever | Iowa Depart



Community Entryways

Overview

Community entryways act as the "front porch" to a community. They are where visitors form their first impression as to what a community is like; they are also the familiar and welcoming beacon to its residents, signifying to them that they are home.

The consistent treatment of each community entryway is critical to creating a unified appearance. While the existing field conditions at each entryway may require the modification of the specific treatment, it is important to keep the signage style, as well as the hardscape and plant material selection the same or very similar.

An example of two different entryway field conditions are shown on board 8 in photos 8a and 8d.

West Entryway (via Highway 30)

The western entryway is unique from the other entryways in that there <u>may</u> be an opportunity to utilize an existing privately owned grain bin as a "medium" on to which the entryway signage can be painted. The bins are located at a prime location for a west entryway sign - adjacent to Hwy. 30, and at the end of a curve where the motorist are cant miss seeing it.

The large size of the western most bin would allow for a large "entryway sign" which would be sure to garner the attention of passerby - leaving a profound impact on the +/- 2,750 vehicles that utilize this route daily. As can be seen in illustrations 8b and 8c, the proposed "entryway sign" shown on the bin is similar to the proposed entrance signage to be used for the other entrances. The design on the bin reflects the same elements of the traditional entrance signs - incorporating the logo, the name (in the same font), and the rectangle that the name is located in.

While being able to utilize the privately owned grain bin for the entryway sign would be ideal, it is important to note that at this time this is just a preliminary idea (concept). There have been no in-depth discussions, details or specifics discussed with the owner(s), only casual "what if" conversations with some of the local visioning committee members.

Other entryway enhancements include the planting of street trees along the south side of Hwy. 30. The trees are intended to:

- 1) Create a buffer that will serve as both an "edge" and screen of the adjacent development, making the area seem more organized and "clean"
- 2) Calm traffic by decreasing the visual; scale of the roadway corridor
- 3) Direct views

visitors form their first impression as to what a community is like; they are also the Community entryways act as the "front porch" to a community. They are where familiar and welcoming beacon to its residents, signifying to them that they are

signage style, as well as the hardscape and plant material selection the same or ent of each community entryway is critical to creating a unified appearance. While the existing field conditions at each entryway may require the modification of the specific treatment, it is important to keep the The consistent treatm

An example of two different entryway field conditions are shown on this board in photos 8a and 8d.

West Entryway (via Highway 30)

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- 1) Create abuffer that will serve as both an "edge" and screen of the adjacent development, making the area seem more organized and "clean"
- 2) Calm traffic by decreasing the visual; scale of the roadway corridor
- Directviews

Wheatland



Existing photo 8a: Photo taken entering the west side of Wheatland via Hwy. 30



Photo edit 8b: Concept illustrating the readability of the logo when a background is used within the



Photo edit 8c: Concept illustrating how colors used for the logo can impact the readability in different environments, depending on their use

FLENKER LAND ARCHITECTURE CONSULTANTS, LLC

Interns: TJ Hillberry, Paola Monllor-Torres and Ethan Morrow lowa State University | Trees Forever | Iowa Department of Transportation LA: Meg Flenker, PLA, ASLA, CPESC, CPSWQ

Community Entryways



Existing Photo 8¢. Photo taken entering Wheatland from the south side of Huy. 30 via 130th Ave. (74E)



Photo edit 8e: Concept illustrating the proposed south entryway enhancen

South Entryway (via 130th Avenue/Y4E)

would be used at all of the other entrances (with the exception of the Hwy. 30 west travel this route daily, making it the third busiest ingress-egress to Wheatland. It is intended that the same style entrance sign shown in concept 8e and on board 7 entryway). The size of the sign may be smaller at some of the other entryways depending on the distance that it is from the roadway and the speed limit - all Presently there is no south entryway signage, even though +/- 1,170 vehicles which are used to determine the size required for best readability. The south entryway is proposed to be set into the slope of the sewage pond berms retaining wall in the front (to allow for the construction of the sign and landscaping aesthetics govern the design of the landscaping which includes a short limestone and are dominated by native vegetation. Maintained lawn and native prairie are around the signage and to create a view angle from the road - all as illustrated in retaining wall. Formal plantings around the sign provide for year-round interest in order to raise it's height for better visibility. Ease of maintenance along with proposed for the area. The lawn is for a mow path along the chain link fence, on the berm), and a mowing edge along the planting area at the top of the photo edit 8e.







South Entryway (via 130th Avenue/Y4E)

Presently there is no south entryway signage, even though +/- 1,170 vehicles travel this route daily, making it the third busiest ingress-egress to Wheatland. It is intended that the same style entrance sign shown in concept 8e and on board 7 would be used at all of the other entrances (with the exception of the Hwy. 30 west entryway). The size of the sign may be smaller at some of the other entryways depending on the distance that it is from the roadway and the speed limit - all which are used to determine the size required for best readability.

The south entryway is proposed to be set into the slope of the sewage pond berms in order to raise it's height for better visibility. Ease of maintenance along with aesthetics govern the design of the landscaping which includes a short limestone retaining wall in the front (to allow for the construction of the sign and landscaping on the berm), and a mowing edge along the planting area at the top of the retaining wall. Formal plantings around the sign provide for year-round interest and are dominated by native vegetation. Maintained lawn and native prairie are proposed for the area. The lawn is for a mow path along the chain link fence, around the signage and to create a view angle from the road all as illustrated in photo edit 8e.

^{*} Estimate does not include property easements, land acquisition utility modifications (i.e.: electrical field wire, connectors, raceways and associated hardware), or site/boundary survey.



Accessibility & Connectivity

Overview

All user groups within the Wheatland community identified sidewalks as one of the top transportation barriers within the community. The users cited the narrow width, poor condition, and lack of complete segments as the main contributers to creating the barrier. Figure 9a is a map that graphically shows the existing sidewalk conditions (does not address width or accessbility) and proposed sidewalk expansion.

Sidewalks

Residents stated that they would like to see upgrades to the city's sidewalks system as one of the top priorities. They would like to have the sidewalks wider, "smoother", accessible, and integrated into the entire community in order to create a complete network throughout town, especially around the school. Figures 9b and 9d on this board illustrate the spatial requirements required and recommended for sidewalks. The majority of existing sidewalks within Wheatland are 4' wide which is the minimum width for a sidewalk.

To improve accessibility and pedestrian circulation, the design team recommends a minimum width of five foot for residential sidewalks in Wheatland, with wider widths recommended for areas where more pedestrian use is anticipated, such as along and within Lions and City Park, in the downtown, around the High School, as well as along primary corridors such as Toronto Street.

Trails

In addition to an improved sidewalk system, residents also cited a community trail which connected to Calamus as a top priority. All user groups indicated that they would like to see a trail system where they and their families could enjoy the scenic beauty and additional recreatonal activity. They would prefer a separated trail system where they do not have to worry about traffic.

Accessibility & Connectivity

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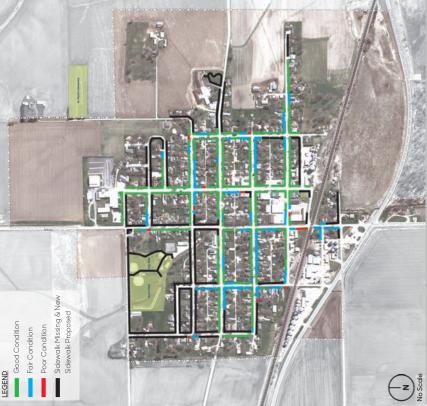
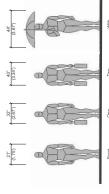


Figure 9a: Assessment of existing sidewalk condition and proposed sidewalk expansion

Pedestrian Spatial Requirements:

Summer **2021** 9



Front One Two Weth Bag Bag Unreeth Unreeth Bag The Save Standards for selected to pedestrian activities. Sor Time Saver Standards for Landscape Architecture.

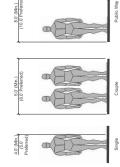


Figure 9c: Pedestrian walkway width requirements. Source: Time Saver Standards for Landscape Architecture.

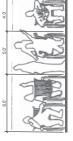


Figure 9d. Pedestrian walkway width - spatial requirements for wheelchairs. Source: Time Sauer Standards for Landscape Architecture.

Wheatland

Accessibility & Connectivity

FLENKER LAND ARCHITECTURE CONSULTANTS, LLC

LA: Meg Flenker, PLA, ASLA, CPESC, CPSWQ Interns: 7J Hillberry, Paola Monllor-Torres and Ethan Morrow

lowa State University | Trees Forever | Iowa Department of Transportation





CONNECTIVITY: EAST-WEST STREET SIDEWALKS (See Boards #9 & #10 for Visual)							Summer 2021
Description	Est. Qty.	Unit		Estimated Unit Cost	Estimated Line Total		Estimated Totals
Second Priority Sidewalks: East - West Streets	Qiy.	i Omi		Oliii Cosi	Line Total		Totals
High Street							
New Sidewalk, None Existing (+/- 674 LF) 5' Wild Payord Sidewalk On Crade (EPDCC) and Evaporation	375	SY	\$	51.00	\$ 19.125.00	\$	25,425.00
5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Engineering Fabric	375	SY	\$	6.60	\$ 19,125.00		
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	375	SY	\$	7.00	\$ 2,625.00		
Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 102 LF)	1	AL	\$	1,200.00	\$ 1,200.00	¢	5,501.00
Existing Sidewalk kernoval and keptacement: Pair Containon (+/- 102 LF) Existing Sidewalk Demolition, +/- 4' Wide	50	SY	\$	22.50	\$ 1,125.00	φ	3,301.00
5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	60	SY	\$	51.00			
Contingency Item if needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	60	SY SY	\$	6.60 7.00	\$ 396.00 \$ 420.00		
Site Preparation and Grading Allowance	1	AL	\$	500.00	\$ 500.00		
Entire Project Area							
ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance	96	SF AL	\$	60.00 800.00	\$ 5,760.00 \$ 800.00		5,760.00 800.00
Mobilization Allowance	i	AL	\$	1,875.00	\$ 1,875.00		1,875.00
					Section Subtotal 20% Contingency		39,361.00 7,872.20
				Design & Engir	neering Allowance	\$	7,084.98
	High Street S	idewalk (Opinio	on of Total Probab	le Construction Cost*	\$	54,318.18
lowa St.							
New Sidewalk, None Existing (+/- 1,760 LF)			+			\$	66,508.00
5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	980	SY	\$	51.00			
Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Evaporation	980 980	SY SY	\$	6.60 7.00	\$ 6,468.00 \$ 6,860.00		
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance	1	AL AL	\$	3,200.00	\$ 3,200.00		
Existing Sidewalk Removal and Replacement: Fair Condition (+/- 240 LF)						\$	11,946.00
Existing Sidewalk Demolition, +/- 4' Wide	110	SY	\$	22.50			
5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric	135 135	SY SY	\$	51.00 6.60	\$ 6,885.00 \$ 891.00		
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	135	SY	\$	7.00	\$ 945.00		
Site Preparation and Grading Allowance	1	AL	\$	750.00	\$ 750.00		
Entire Project Area ADA Compliant Detectable Warning Panel	12	SF	\$	60.00	\$ 720.00	\$	720.00
Finish Grading & Seeding Allowance	1	AL	\$	1,700.00			1,700.00
Mobilization Allowance	1	AL	\$	4,100.00	\$ 4,100.00	\$	4,100.00
					Section Subtotal	\$	84 974 00
					Section Subtotal 20% Contingency		84,974.00 16,994.80
	lowa Street S	idewalk	Opinio		20% Contingency neering Allowance	\$	16,994.80 15,295.32
	lowa Street S	idewalk	Opinio		20% Contingency	\$	16,994.80
North Street	lowa Street S	idewalk (Opinio		20% Contingency neering Allowance	\$	16,994.80 15,295.32
New Sidewalk, None Existing (+/- 1,206 LF)				on of Total Probab	20% Contingency neering Allowance ole Construction Cost*	\$	16,994.80 15,295.32
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	670	SY	\$	51.00	20% Contingency teering Allowance ole Construction Cost*	\$	16,994.80 15,295.32 117,264.12
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Engineering Fabric				on of Total Probab	20% Contingency neering Allowance ole Construction Cost*	\$	16,994.80 15,295.32 117,264.12
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance	670 670 670	SY SY SY AL	\$ \$ \$	51.00 6.60 7.00 2,200.00	20% Contingency teering Allowance ole Construction Cost* \$ 34,170.00 \$ 4,422.00 \$ 4,690.00 \$ 2,200.00	\$ \$ \$	16,994.80 15,295.32 117,264.12 45,482.00
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel	670 670	SY SY SY AL	\$ \$ \$ \$	51.00 6.60 7.00 2,200.00 60.00	20% Contingency teering Allowance tele Construction Cost* \$ 34,170.00 \$ 4,422.00 \$ 4,690.00 \$ 2,200.00 \$ 720.00	\$ \$ \$	16,994,80 15,295,32 117,264,12 45,482.00
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance	670 670 670	SY SY SY AL SF AL	\$ \$ \$ \$	51.00 6.60 7.00 2,200.00 60.00 1,000.00	20% Contingency teering Allowance to the Construction Cost** \$ 34,170.00 \$ 4,422.00 \$ 4,690.00 \$ 2,200.00 \$ 7,20.00 \$ 1,000.00 \$	\$ \$ \$	16,994,80 15,295,32 117,264.12 45,482.00 720.00 1,000.00
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance	670 670 670	SY SY SY AL	\$ \$ \$ \$	51.00 6.60 7.00 2,200.00 60.00	20% Contingency teering Allowance tele Construction Cost* \$ 34,170.00 \$ 4,422.00 \$ 4,690.00 \$ 2,200.00 \$ 720.00	\$ \$ \$ \$	16,994,80 15,295,32 117,264,12 45,482.00
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance	670 670 670	SY SY SY AL SF AL	\$ \$ \$ \$	51.00 6.60 7.00 2,200.00 60.00 1,000.00	20% Contingency teering Allowance seeing Allowance sele Construction Cost* \$ 34,170.00 \$ 4,422.00 \$ 2,200.00 \$ 2,200.00 \$ 1,000.00 \$ 2,400.00 \$ Section Subtotal	\$ \$ \$ \$ \$	16,994,80 15,295,32 117,264,12 45,482.00 720.00 1,000.00 2,400.00 49,602.00
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance	670 670 670	SY SY SY AL SF AL	\$ \$ \$ \$	51.00 5.00 6.60 7.00 2,200.00 60.00 1,000.00 2,400.00	20% Contingency teering Allowance ole Construction Cost* \$ 34,170.00 \$ 4,422.00 \$ 2,200.00 \$ 7,20.00 \$ 1,000.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,000.	\$ \$ \$ \$ \$ \$	16,994,80 15,295,32 117,264.12 45,482.00 720.00 1,000.00 2,400.00 49,602.00 9,920.40
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance	670 670 670 1 1 12 1	SY SY SY AL SF AL	\$ \$ \$ \$ \$	51.00 6.60 7.00 2,200.00 60.00 1,000.00 2,400.00	20% Contingency teering Allowance seeing Allowance sele Construction Cost* \$ 34,170.00 \$ 4,422.00 \$ 2,200.00 \$ 2,200.00 \$ 1,000.00 \$ 2,400.00 \$ Section Subtotal	\$ \$ \$ \$ \$ \$	16,994,80 15,295,32 117,264,12 45,482.00 720.00 1,000.00 2,400.00 49,602.00
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance	670 670 670 1 1 12 1	SY SY SY AL SF AL	\$ \$ \$ \$ \$	51.00 6.60 7.00 2,200.00 60.00 1,000.00 2,400.00	20% Contingency teering Allowance ole Construction Cost* \$ 34,170.00 \$ 4,422.00 \$ 4,690.00 \$ 720.00 \$ 1,200.00 \$ 2,400.00 \$ 2,400.00 \$ Section Subtotal 20% Contingency teering Allowance	\$ \$ \$ \$ \$ \$	16,994,80 15,295,32 117,264,12 45,482.00 720.00 1,000.00 2,400.00 49,602.00 9,920.40 8,928.36
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance Vine Street	670 670 670 1 1 12 1	SY SY SY AL SF AL	\$ \$ \$ \$ \$	51.00 6.60 7.00 2,200.00 60.00 1,000.00 2,400.00	20% Contingency teering Allowance ole Construction Cost* \$ 34,170.00 \$ 4,422.00 \$ 4,690.00 \$ 720.00 \$ 1,200.00 \$ 2,400.00 \$ 2,400.00 \$ Section Subtotal 20% Contingency teering Allowance	\$ \$	16,994,80 15,295,32 117,264,12 45,482,00 720,00 1,000,00 2,400,00 49,602,00 9,920,40 8,928,36 68,450,76
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance Wine Street New Sidewalk, None Existing (+/- 2,934 LF)	670 670 670 1 1 12 1 1	SY SY SY AL SF AL AL	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	51.00 6.60 7.00 2,200.00 6.00 1,000.00 2,400.00 Design & Engir	20% Contingency beering Allowance old Construction Cost* \$ 34,170.00 \$ 4,422.00 \$ 4,690.00 \$ 720.00 \$ 1,200.00 \$ 2,400.00 \$ 2,400.00 \$ Section Subtotal 20% Contingency beering Allowance old Construction Cost*	\$ \$ \$ \$ \$ \$	16,994,80 15,295,32 117,264,12 45,482.00 720.00 1,000.00 2,400.00 49,602.00 9,920.40 8,928.36
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance Vine Street New Sidewalk, None Existing (+/- 2,934 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric	670 670 670 1 1 12 1	SY SY SY AL SF AL	\$ \$ \$ \$ \$	51.00 6.60 7.00 2,200.00 60.00 1,000.00 2,400.00	20% Contingency beering Allowance ole Construction Cost* \$ 34,170.00 \$ 4,422.00 \$ 4,690.00 \$ 2,200.00 \$ 1,000.00 \$ 2,400.00 \$ 2,400.00 \$ 20% Contingency beering Allowance ole Construction Cost* \$ 83,130.00 \$ 10,758.00	\$ \$	16,994,80 15,295,32 117,264.12 45,482.00 720.00 1,000.00 2,400.00 49,602.00 9,920.40 8,928.36 68,450.76
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance Vine Street New Sidewalk, None Existing (+/- 2,934 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	670 670 670 1 1 12 1 1 1 North Street S	SY SY SY AL AL AL idewalk (\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	51.00 6.60 7.00 2,200.00 6.00 1,000.00 2,400.00 Design & Engiron of Total Probab	20% Contingency neering Allowance ole Construction Cost* \$ 34,170.00 \$ 4,422.00 \$ 4,690.00 \$ 720.00 \$ 1,000.00 \$ 2,400.00 \$ 2,400.00 \$ 8 Contingency neering Allowance ole Construction Cost*	\$ \$	16,994,80 15,295,32 117,264.12 45,482.00 720.00 1,000.00 2,400.00 49,602.00 9,920.40 8,928.36 68,450.76
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance Mobilization Allowance Vine Street New Sidewalk, None Existing (+/- 2,934 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance	670 670 670 1 12 1 1 1 1 North Street S	SY SY SY AL SF AL AL	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	51.00 6.60 7.00 2.200.00 60.00 1.000.00 2,400.00 Design & Engir	20% Contingency neering Allowance ole Construction Cost* \$ 34,170.00 \$ 4,422.00 \$ 4,690.00 \$ 720.00 \$ 1,000.00 \$ 2,400.00 \$ 2,400.00 \$ 8 Contingency neering Allowance ole Construction Cost*	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16,994,80 15,295,32 117,264,12 45,482.00 720.00 1,000.00 2,400.00 49,602.00 9,920.40 8,928.36 68,450.76
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance Vine Street New Sidewalk, None Existing (+/- 2,934 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Demolition, +/- 4' Wide	670 670 670 1 12 1 1 1 1 North Street S	SY SY SY AL AL AL idewalk (\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	51.00 6.60 7.00 2,200.00 6.00 1,000.00 2,400.00 Design & Engiron of Total Probab	20% Contingency teering Allowance alle Construction Cost* \$	\$ \$	16,994,80 15,295,32 117,264.12 45,482.00 720.00 1,000.00 2,400.00 49,602.00 9,920.40 8,928.36 68,450.76
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance Mobilization Allowance Vine Street New Sidewalk, None Existing (+/- 2,934 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Poor Condition (+/- 196 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation	670 670 670 1 1 1 1 1 1 1 1 1	SY SY SY AL SF AL AL idewalk (\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	51.00 6.60 7.00 1,000.00 2,200.00 6.00 1,000.00 2,400.00 Design & Engiron of Total Probate 51.00 6.60 7.00 5,300.00 22.50 51.00	20% Contingency teering Allowance on the Construction Cost* \$ 34,170.00 \$ 4,422.00 \$ 4,690.00 \$ 2,200.00 \$ 720.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 3 1,000.00 \$ 3	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16,994,80 15,295,32 117,264,12 45,482.00 720.00 1,000.00 2,400.00 49,602.00 9,920.40 8,928.36 68,450.76
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk Non Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance Mobilization Allowance Vine Street New Sidewalk, None Existing (+/- 2,934 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Poor Condition (+/- 196 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric	670 670 670 1 1 1 1 1 1 1 1 1	SY SY SY AL SF AL AL idewalk	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	51.00 6.60 7.00 2.200.00 6.00 1,000.00 2,400.00 2,400.00 51.00 6.60 7.00 5,300.00 51.00 6.60	20% Contingency teering Allowance alle Construction Cost** \$ 34,170.00 \$ 4,422.00 \$ 4,690.00 \$ 720.00 \$ 1,000.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,000.00 \$ 2,000.00 \$ 3,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16,994,80 15,295,32 117,264,12 45,482.00 720.00 1,000.00 2,400.00 49,602.00 9,920.40 8,928.36 68,450.76
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance Mobilization Allowance Vine Street New Sidewalk, None Existing (+/- 2,934 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Poor Condition (+/- 196 LF) Existing Sidewalk Demolition, +/- 4" Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Engineering Fabric Contingency Item If needed: Engineering Fabric	670 670 670 1 1 1 1 1 1 1 1 1	SY SY SY AL SF AL AL idewalk (\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	51.00 6.60 7.00 Design & Engiro on of Total Probab 51.00 6.60 7.00 2,200.00 6.00 1,000.00 2,400.00 51.00 6.60 7.00 5,300.00 6.60 7.00 6.60 7.00	20% Contingency teering Allowance on the Construction Cost* \$ 34,170.00 \$ 4,422.00 \$ 4,690.00 \$ 2,200.00 \$ 720.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 3 1,000.00 \$ 3	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16,994,80 15,295,32 117,264,12 45,482.00 720.00 1,000.00 2,400.00 49,602.00 9,920.40 8,928.36 68,450.76
New Sidewalk, None Existing (+/- 1,206 LF) S' Wide Paved Sidewalk Non Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance Mobilization Allowance Vine Street New Sidewalk, None Existing (+/- 2,934 LF) S' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Poor Condition (+/- 196 LF) Existing Sidewalk Demolition, +/- 4' Wide S' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 620 LF) Existing Sidewalk Removal and Replacement: Fair Condition (+/- 620 LF)	670 670 670 1 1 1 1 1 1 1 1 1	SY SY SY AL SF AL AL idewalk (\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	51.00 6.60 7.00 2,200.00 6.00 1,000.00 2,400.00 Design & Engir on of Total Probat 51.00 6.60 7.00 5,300.00 6.60 7.00 6.60 7.00 500.00	20% Contingency teering Allowance ole Construction Cost* \$ 34,170.00 \$ 4,422.00 \$ 4,690.00 \$ 2,200.00 \$ 720.00 \$ 1.000.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 3 2,400.00 \$ 3 2,000.00 \$ 3 2,000.00 \$ 3 2,000.00 \$ 3 3,100.00 \$ 3 3,100.00 \$ 3 3,100.00 \$ 3 3,100.00 \$ 3 3,0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16,994,80 15,295,32 117,264,12 45,482.00 720.00 1,000.00 2,400.00 49,602.00 9,920.40 8,928.36 68,450.76
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance Mobilization Allowance Wine Street New Sidewalk, None Existing (+/- 2,934 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Poor Condition (+/- 196 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Engineering Fabric Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 620 LF) Existing Sidewalk Removal and Replacement: Fair Condition (+/- 620 LF) Existing Sidewalk Demolition, +/- 4' Wide	670 670 670 1 12 1 1 1 10 1 1 1 1 1	SY SY SY AL AL SF AL AL SY SY SY SY SY SY SY AL SY	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	51.00 6.60 7.00 1.000.00 2.200.00 6.00 1.000.00 2.400.00 Design & Engiro on of Total Probab 51.00 6.60 7.00 5.300.00 22.50 51.00 6.60 7.00 5.300.00	20% Contingency beering Allowance ole Construction Cost* \$ 34,170.00 \$ 4,422.00 \$ 4,690.00 \$ 2,200.00 \$ 720.00 \$ 1,000.00 \$ 2,400.00 Section Subtotal 20% Contingency beering Allowance ole Construction Cost* \$ 83,130.00 \$ 10,758.00 \$ 11,410.00 \$ 5,300.00 \$ 726.00 \$ 770.00 \$ 5,610.00 \$ 770.00 \$ 5,610.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16.994.80 15.295.32 117,264.12 45,482.00 720.00 1.000.00 2.400.00 49,602.00 9,920.40 8,928.36 68,450.76
New Sidewalk, None Existing (+/- 1,206 LF) S' Wide Paved Sidewalk Non Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance Mobilization Allowance Vine Street New Sidewalk, None Existing (+/- 2,934 LF) S' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Poor Condition (+/- 196 LF) Existing Sidewalk Demolition, +/- 4' Wide S' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 620 LF) Existing Sidewalk Removal and Replacement: Fair Condition (+/- 620 LF)	670 670 670 1 1 1 1 1 1 1 1 1	SY SY SY AL SF AL AL idewalk (\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	51.00 6.60 7.00 2,200.00 6.00 1,000.00 2,400.00 Design & Engir on of Total Probat 51.00 6.60 7.00 5,300.00 6.60 7.00 6.60 7.00 500.00	20% Contingency beering Allowance ole Construction Cost* \$ 34,170.00 \$ 4,422.00 \$ 4,690.00 \$ 2,200.00 \$ 720.00 \$ 1,000.00 \$ 2,400.00 Section Subtotal 20% Contingency beering Allowance ole Construction Cost* \$ 83,130.00 \$ 10,758.00 \$ 11,410.00 \$ 5,300.00 \$ 726.00 \$ 770.00 \$ 5,610.00 \$ 770.00 \$ 5,610.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16.994.80 15.295.32 117,264.12 45,482.00 720.00 1.000.00 2.400.00 49,602.00 9,920.40 8,928.36 68,450.76
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance Mobilization Allowance Mobilization Allowance New Sidewalk, None Existing (+/- 2,934 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Poor Condition (+/- 196 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Contingency Item If needed: Fagineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk Demolition, +/- 4' Wide Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Engineering Fabric Contingency Item If needed: Engineering Fabric	670 670 670 1 1 1 1 1 1 1 1 1	SY SY AL AL SF AL AL SY SY SY AL AL SY	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	51.00 6.60 7.00 5.300.00 5.300.00 5.300.00 5.300.00 5.300.00 5.300.00 5.300.00 5.300.00 5.300.00	20% Contingency leering Allowance lele Construction Cost* \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16,994,80 15,295,32 117,264,12 45,482.00 720.00 1,000.00 2,400.00 49,602.00 9,920.40 8,928.36 68,450.76
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance Mobilization Allowance Wide Paved Sidewalk, None Existing (+/- 2,934 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Poor Condition (+/- 196 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 620 LF) Existing Sidewalk Removal and Replacement: Fair Condition (+/- 620 LF) Existing Sidewalk Removal and Replacement: Fair Condition (+/- 620 LF) Existing Sidewalk Removal and Replacement: Fair Condition (+/- 620 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric	670 670 670 1 1 1 1 1 1 1 1 1	SY SY SY AL SF AL AL SY	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	51.00 6.60 7.00 2,200.00 6.00 1,000.00 2,400.00 Design & Engiro on of Total Probate 51.00 6.60 7.00 5,300.00 5,300.00 6.60 7.00 50.00 6.60 7.00 6.60 7.00 6.60 7.00 6.60 7.00 6.60 7.00 6.60 7.00 6.60 6.6	20% Contingency teering Allowance ole Construction Cost* \$ 34,170.00 \$ 4,422.00 \$ 4,690.00 \$ 2,200.00 \$ 720.00 \$ 1,000.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 5,300.00 \$ 1,100.00 \$ 1,100.00 \$ 1,000.0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16.994.80 15.295.32 117,264.12 45,482.00 720.00 1.000.00 2.400.00 49,602.00 9,920.40 8,928.36 68,450.76
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warming Panel Finish Grading & Seeding Allowance Mobilization Allowance Mobilization Allowance Wine Sidewalk, None Existing (+/- 2,934 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Demolition, +/- 4" Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Engineering Fabric Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 620 LF) Existing Sidewalk Removal and Replacement: Fair Condition (+/- 620 LF) Existing Sidewalk Demolition, +/- 4" Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric	670 670 670 1 1 1 1 1 1 1 1 1	SY SY SY AL SF AL AL idewalk (SY SY SY SY SY SY AL SY SY SY SY AL SY SY SY AL SY SY SY AL SY SY SY AL SY SY SY AL	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	51.00 6.60 7.00 5.300.00 5.300.00 5.300.00 5.300.00 5.00 6.60 7.00 5.300.00 5.300.00 5.300.00 5.300.00	20% Contingency teering Allowance of the Construction Cost* \$ 34,170.00 \$ 4,422.00 \$ 4,690.00 \$ 2,200.00 \$ 720.00 \$ 1,000.00 \$ 2,400.00 \$ 1,00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16,994.80 15,295.32 117,264.12 45,482.00 720.00 1,000.00 2,400.00 49,602.00 9,920.40 110,598.00 110,598.00 9,631.00
New Sidewalk, None Existing (+/- 1,206 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance Mobilization Allowance Wide Paved Sidewalk None Existing (+/- 2,934 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Poor Condition (+/- 196 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric	670 670 670 1 1 1 1 1 1 1 1 1	SY SY AL AL SF AL AL SY SY SY AL AL SY	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	51.00 6.60 7.00 5.300.00 5.300.00 5.300.00 5.300.00 5.300.00 5.300.00 5.300.00 5.300.00 5.300.00	20% Contingency leering Allowance lele Construction Cost** \$ 34,170.00 \$ 4,422.00 \$ 4,690.00 \$ 720.00 \$ 1,000.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 2,400.00 \$ 3,10,758.00 \$ 11,410.00 \$ 5,300.00 \$ 726.00 \$ 770.00 \$ 5,000.00 \$ 770.00 \$ 17,595.00 \$ 17,595.00 \$ 17,595.00 \$ 17,595.00 \$ 17,595.00 \$ 17,595.00 \$ 17,595.00 \$ 17,595.00 \$ 14,500.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16,994.80 15,295.32 117,264.12 45,482.00 720.00 1,000.00 2,400.00 49,602.00 9,920.40 8,928.36 68,450.76

CONNECTIVITY: EAST-WEST STREET SIDEWALKS (See Boards #9 & #10 for Visual)						Summer 2021
Description	Est.	11-2	Estimated	Estimated		Estimated
Description Mobilization Allowance	Qty.	Unit AL	Unit Cost \$ 8,700.00	Line Total \$ 8,700.00	\$	Totals 8,700.00
						171.010.50
				Section Subtotal 20% Contingency		174,063.50 34,812.70
				neering Allowance	\$	31,331.43
	Vine Street S	sidewalk (Opinion of Total Probab	ole Construction Cost*	\$	240,207.63
Washington Street					1	
New Sidewalk, None Existing (+/- 473 LF)					\$	18,119.00
5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Engineering Fabric	265 265	SY SY	\$ 51.00 \$ 6.60	\$ 13,515.00 \$ 1,749.00	<u> </u>	
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	265	SY	\$ 7.00	\$ 1,855.00		
Site Preparation and Grading Allowance	1	AL	\$ 1,000.00	\$ 1,000.00		57.7.4.50
Existing Sidewalk Removal and Replacement: Poor Condition (+/- 1,196 LF) Existing Sidewalk Demolition, +/- 4' Wide	535	SY	\$ 22.50	\$ 12,037.50	\$	57,746.50
5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	665	SY	\$ 51.00	\$ 33,915.00		
Contingency Item if needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	665 665	SY SY	\$ 6.60 \$ 7.00	\$ 4,389.00 \$ 4,655.00		
Site Preparation and Grading Allowance	1	AL	\$ 2,750.00	\$ 2,750.00		
Existing Sidewalk Removal and Replacement: Fair Condition (+/- 26 LF)	10	C)/	d 00.50	¢ 070.00	\$	1,489.00
Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	12	SY SY	\$ 22.50 \$ 51.00	\$ 270.00 \$ 765.00		
Contingency Item if needed: Engineering Fabric	15	SY	\$ 6.60	\$ 99.00		
Confingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance	15	SY AL	\$ 7.00 \$ 250.00	\$ 105.00 \$ 250.00	<u> </u>	
Entire Project Area	<u> </u>		Ψ 230.00	Ψ 250.00	L	
ADA Compliant Detectable Warning Panel	48	SF	\$ 60.00	1	,	2,880.00
Finish Grading & Seeding Allowance Mobilization Allowance	1	AL AL	\$ 1,500.00 \$ 4,100.00			1,500.00 4,100.00
			17.00.00	7		.,
				Section Subtotal		85,834.50
			Design & Engir	20% Contingency neering Allowance	\$	17,166.90 15,450,21
W	ashington Street S	idewalk (Opinion of Total Probab		\$	118,451.61
Jefferson Street (outside of downtown limits)					•	0.150.00
New Sidewalk, None Existing (+/- 310 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	120	SY	\$ 51.00	\$ 6,120.00	\$	8,152.00
Contingency Item if needed: Engineering Fabric	120	SY	\$ 6.60			
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance	120	SY AL	\$ 7.00 \$ 400.00	\$ 840.00 \$ 400.00		
Existing Sidewalk Removal and Replacement: Poor Condition (+/- 902 LF)			,	,	\$	43,723.00
Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	400 505	SY SY	\$ 22.50 \$ 51.00			
Contingency Item if needed: Engineering Fabric	505	SY	\$ 6.60	\$ 3,333.00		
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	505	SY	\$ 7.00	\$ 3,535.00		
Site Preparation and Grading Allowance Entire Project Area		AL	\$ 2,100.00	\$ 2,100.00		
ADA Compliant Detectable Warning Panel	60	SF	\$ 60.00			3,600.00
Finish Grading & Seeding Allowance Mobilization Allowance	1	AL AL	\$ 1,100.00 \$ 2,900.00			1,100.00 2,900.00
The billion of the state of the		AL	\$ 2,700.00	φ 2,700.00	Ψ	2,700.00
				Section Subtotal		59,475.00
			Design & Engir	20% Contingency neering Allowance	\$	11,895.00 10,705.50
	Jefferson Street S	idewalk (Opinion of Total Probab		\$	82,075.50
			T	Ī		
Madison Street New Sidewalk, None Existing (+/- 592 LF)		1			\$	22,418.00
5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	330	SY	\$ 51.00			12,
Contingency Item if needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	330 330	SY SY	\$ 6.60 \$ 7.00			
Site Preparation and Grading Allowance	1	AL	\$ 1,100.00			
ADA Compliant Detectable Warning Panel	12	SF	\$ 60.00	\$ 720.00		720.00
Finish Grading & Seeding Allowance Mobilization Allowance	1	AL AL	\$ 500.00 \$ 1,200.00			500.00 1,200.00
			,255.00	, .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ·	1,255.00
				Section Subtotal	\$	24,838.00
			Design & English	20% Contingency neering Allowance	\$	4,967.60 4,470.84
	Madison Street S	idewalk (Design & Engir Opinion of Total Probat			34,276.44
Jackson Street						
Existing Sidewalk Removal and Replacement: Fair Condition (+/- 162 LF) Existing Sidewalk Demolition, +/- 4' Wide	72	SY	\$ 22.50	\$ 1,620.00	\$	7,809.00
5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	90	SY	\$ 22.50			
Contingency Item if needed: Engineering Fabric	90	SY	\$ 6.60	\$ 594.00		
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Gradina Allowance	90	SY	\$ 7.00 \$ 375.00			
ADA Compliant Detectable Warning Panel	12	SF	\$ 60.00		\$	720.00
Site Preparation and Grading Allowance	1	AL	\$ 375.00	\$ 375.00	\$	



							Summer 202
	Est.		Estimated		Estimated		Estimated
Description	Qty.	Unit	Unit Cost		Line Total		Totals
Finish Grading & Seeding Allowance	1	AL	\$ 450.0		450.00	\$	450.00
Mobilization Allowance	1	AL	\$ 500.0	0 \$	500.00	\$	500.00
							0.470.0
					Section Subtotal		9,479.0
			D		20% Contingency	\$	1,895.8
_					ing Allowance	\$ •	1,706.2
Jo	ickson street s	iaewaik	Opinion of Total Prob	able C	Construction Cost*	ş	13,081.02
Buchanan Street							
New Sidewalk, None Existing (+/- 642 LF)						\$	23,256.0
5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	360	SY	\$ 51.0	0 \$	18,360.00		
Contingency Item if needed: Engineering Fabric	360	SY	\$ 6.6	0 \$	2,376.00		
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	360	SY	\$ 7.0	0 \$	2,520.00		
Site Preparation and Grading Allowance	1	AL	\$ 1,200.0	0 \$	1,200.00	\$	1,200.0
ADA Compliant Detectable Warning Panel	24	SF	\$ 60.0	0 \$	1,440.00	\$	1,440.0
Finish Grading & Seeding Allowance	1	AL	\$ 600.0	0 \$	600.00	\$	600.0
Mobilization Allowance	1	AL	\$ 1,400.0	0 \$	1,400.00	\$	1,400.0
					Section Subtotal		27,896.0
					20% Contingency	\$	5,579.2
					ing Allowance	\$	5,021.2
Buci	hanan Street S	idewalk	Opinion of Total Prob	able C	Construction Cost*	\$	38,496.4
E-W Secondar	ry Sidewalk	Opinior	of Probable Tota	l Con	struction Cost*	\$	766,621.7
Estimate does not include property easements, land acquisitions, site/boundary surveys, or any utility	v modification	c					

ONNECTIVITY: NORTH-SOUTH STREET SIDEWALKS (See Boards #9 & #10 for Visual)						Summer 20:
	Est.		Estimated	Estimated		Estimated
Description Cond Priority Sidewalks: North-South Streets	Qty.	Unit	Unit Cost	Line Total		Totals
right Street				I		
New Sidewalk, None Existing (+/- 2,490 LF)					\$	89,471.
5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	1385	SY	\$ 51.00	\$ 70,635.00	-	
Contingency Item if needed: Engineering Fabric	1385	SY	\$ 6.60	\$ 9,141.00		
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	1385	SY	\$ 7.00	\$ 9,695.00		
Site Preparation and Grading Allowance	1	AL	\$ 4,500.00	\$ 4,500.00		4,500.
ADA Compliant Detectable Warning Panel	120	SF	\$ 60.00	\$ 7,200.00		7,200.
Finish Grading & Seeding Allowance	1	AL	\$ 1,550.00	\$ 1,550.00	_	1,550.
Mobilization Allowance	1	AL	\$ 5,000.00	\$ 5,000.00	\$	5,000.
				Section Subtotal	\$	107,721.
				20% Contingency		21,544
			Design & Engi	neering Allowance	\$	19,389.
	Wright Street S	idewalk (Opinion of Total Probal	ole Construction Cost*	\$	148,654
					_	
Iliams Street						10.100
New Sidewalk, None Existing (+/- 1,075 LF)	500	61/	f 51.00	¢ 00,400,00	\$	40,630
5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	598 598	SY	\$ 51.00	\$ 30,498.00		
Contingency Item If needed: Engineering Fabric		SY	\$ 6.60	\$ 3,946.80 \$ 4,186.00		
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance	598	SY AL	\$ 7.00 \$ 2,000.00	\$ 4,186.00 \$ 2,000.00	<u> </u>	
Existing Sidewalk Removal and Replacement: Fair Condition (+/- 1,126 LF)	- '	ΛL	Ψ 2,000.00	Ψ 2,000.00	\$	54,548
Existing Sidewalk Demolition, +/- 4' Wide	500	SY	\$ 22.50	\$ 11,250.00	Ψ	34,340
5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	630	SY	\$ 51.00	\$ 32,130.00		
Contingency Item if needed: Engineering Fabric	630	SY	\$ 6.60	\$ 4,158.00	1	
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	630	SY	\$ 7.00	\$ 4,410.00		
Site Preparation and Grading Allowance	1	AL	\$ 2,600.00	\$ 2,600.00		
Entire Project Area					\$	15,140
ADA Compliant Detectable Warning Panel	144	SF	\$ 60.00	\$ 8,640.00		
Finish Grading & Seeding Allowance	1	AL	\$ 1,200.00			
Mobilization Allowance	1	AL	\$ 5,300.00	\$ 5,300.00		
				Castina Culatatad	σ.	110 210
				Section Subtotal		110,318
			Design & Engli	20% Contingency		
	Williams Street S	idewalk (neering Allowance	\$	22,063 19,857 152,239
	Williams Street S	idewalk (Design & Engil Opinion of Total Probal	neering Allowance	\$	19,857
Bennett St.	Williams Street S	idewalk (neering Allowance	\$	19,857 152,239
Bennett St. New Sidewalk, None Existing (+/- 508 LF)			Opinion of Total Probat	neering Allowance ble Construction Cost*	\$	19,857
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	285	SY	Opinion of Total Probat	neering Allowance ple Construction Cost*	\$	19,857 152,239
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Engineering Fabric	285 285	SY SY	\$ 51.00 \$ 6.60	s 14,535.00	\$	19,857 152,239
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	285	SY SY SY	\$ 51.00 \$ 6.60 \$ 7.00		\$	19,857 152,239
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance	285 285	SY SY	\$ 51.00 \$ 6.60	s 14,535.00	\$ \$	19,857 152,239
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF)	285 285 285 285	SY SY SY AL	\$ 51.00 \$ 6.60 \$ 7.00 \$ 1,000.00	\$ 14,535,00 \$ 1,881.00 \$ 1,000.00	\$	19,857 152,239
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4" Wide	285 285 285 1	SY SY SY AL	\$ 51.00 \$ 6.60 \$ 7.00 \$ 1,000.00	\$ 14,535.00 \$ 1,881.00 \$ 1,995.00 \$ 1,000.00	\$ \$	19,857 152,239
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Conlingency Item if needed: Engineering Fabric Conlingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4" Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	285 285 285 1 385 480	SY SY SY AL	\$ 51.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 22.50 \$ 51.00	\$ 14,535.00 \$ 1,881.00 \$ 1,000.00 \$ 1,000.00 \$ 24,480.00	\$ \$	19,857 152,239
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric	285 285 285 1 385 480 480	SY SY SY AL SY SY SY	\$ 51.00 \$ 7.00 \$ 1,000.00 \$ 22.50 \$ 51.00 \$ 3 6.60	\$ 14,535.00 \$ 1,881.00 \$ 1,995.00 \$ 1,000.00 \$ 8,662.50 \$ 24,480.00 \$ 3,168.00	\$ \$	19,857 152,239
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk Or Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	285 285 285 1 385 480	SY SY SY AL SY SY SY SY	\$ 51.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 22.50 \$ 51.00 \$ 3,000.00	\$ 14,535.00 \$ 1,881.00 \$ 1,995.00 \$ 1,000.00 \$ 8,642.50 \$ 24,480.00 \$ 3,168.00 \$ 3,360.00 \$	\$ \$	19,857 152,239 19,411
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric	285 285 285 1 1 385 480 480	SY SY SY AL SY SY SY	\$ 51.00 \$ 7.00 \$ 1,000.00 \$ 22.50 \$ 51.00 \$ 3 6.60	\$ 14,535.00 \$ 1,881.00 \$ 1,995.00 \$ 1,000.00 \$ 8,662.50 \$ 24,480.00 \$ 3,168.00	\$ \$	19,857 152,239 19,411 42,070
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Conlingency Item if needed: Engineering Fabric Conlingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Conlingency Item if needed: Engineering Fabric Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance	285 285 285 1 1 385 480 480	SY SY SY AL SY SY SY SY	\$ 51.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 22.50 \$ 51.00 \$ 3,000.00 \$ 20.50 \$ 51.00 \$ 50.60	\$ 14,535.00 \$ 1,881.00 \$ 1,995.00 \$ 1,000.00 \$ 8,642.50 \$ 24,480.00 \$ 3,168.00 \$ 3,360.00 \$	\$ \$	19,857 152,239 19,411 42,070
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area	285 285 285 1 385 480 480	SY SY SY AL SY SY SY SY AL	\$ 51.00 \$ 6.60 \$ 1,000.00 \$ 22.50 \$ 51.00 \$ 2,400.00	\$ 14,535.00 \$ 1,881.00 \$ 1,995.00 \$ 1,000.00 \$ 8,662.50 \$ 24,480.00 \$ 3,360.00 \$ 2,400.00	\$ \$	19,857 152,239 19,411
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area ADA Compliant Detectable Warning Panel	285 285 285 1 385 480 480	SY SY SY AL SY SY SY AL	\$ 51.00 \$ 6.60 \$ 1,000.00 \$ 22.50 \$ 51.00 \$ 2,400.00 \$ 2,400.00	\$ 14,535,00	\$ \$	19,857 152,239 19,411
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance	285 285 285 1 385 480 480	SY SY SY AL SY SY SY AL	\$ 51.00 \$ 6.60 \$ 1,000.00 \$ 1,000.00 \$ 22.50 \$ 51.00 \$ 6.60 \$ 7.00 \$ 2,400.00 \$ 60.00 \$ 750.00	\$ 14,535.00 \$ 1,995.00 \$ 1,000.00 \$ 1,000.00 \$ 3,1680.00 \$ 3,1680.00 \$ 2,400.00 \$ 4,320.00 \$ 750.00 \$ 3,400.00	\$ \$	19.857 152,239 19.411 42.070
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance	285 285 285 1 385 480 480	SY SY SY AL SY SY SY AL	\$ 51.00 \$ 6.60 \$ 1,000.00 \$ 1,000.00 \$ 22.50 \$ 51.00 \$ 6.60 \$ 7.00 \$ 2,400.00 \$ 60.00 \$ 750.00	\$ 14,535.00 \$ 1,881.00 \$ 1,995.00 \$ 1,000.00 \$ 3,168.00 \$ 3,168.00 \$ 2,400.00 \$ 4,320.00 \$ 750.00 \$ 3,400.00	\$ \$	19,857 152,239 19,411 42,070 8,470
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance	285 285 285 1 385 480 480	SY SY SY AL SY SY SY AL	\$ 51.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 2,400.00 \$ 2,400.00 \$ 60.00 \$ 750.00 \$ 3,400.00	\$ 14,535.00	\$ \$	19,857 152,239 19,411 42,070 8,470 69,951 13,990
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance	285 285 285 1 1 385 480 480 480 1	SY SY SY AL SY SY SY SY AL	\$ 51.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 22.50 \$ 51.00 \$ 2,400.00 \$ 2,400.00 \$ 3,400.00	\$ 14,535.00	\$ \$	19,857 152,239 19,411 42,070 8,470 69,951 13,990 12,591
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance	285 285 285 1 1 385 480 480 480 1	SY SY SY AL SY SY SY SY AL	\$ 51.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 2,400.00 \$ 2,400.00 \$ 60.00 \$ 750.00 \$ 3,400.00	\$ 14,535.00	\$ \$	19,857 152,239 19,411 42,070 8,470 69,951 13,990
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance	285 285 285 1 1 385 480 480 480 1	SY SY SY AL SY SY SY SY AL	\$ 51.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 22.50 \$ 51.00 \$ 2,400.00 \$ 2,400.00 \$ 3,400.00	\$ 14,535.00	\$ \$	19,857 152,239 19,411 42,070 8,470 69,951 13,990 12,591
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4" Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance	285 285 285 1 1 385 480 480 480 1	SY SY SY AL SY SY SY SY AL	\$ 51.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 22.50 \$ 51.00 \$ 2,400.00 \$ 2,400.00 \$ 3,400.00	\$ 14,535.00	\$ \$	19,857 152,239 19,411 42,070 8,470 69,951 13,990 12,591 96,533
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance N. N. Memorial Drive	285 285 285 1 1 385 480 480 480 1	SY SY SY AL SY SY SY SY AL	\$ 51.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 22.50 \$ 51.00 \$ 2,400.00 \$ 2,400.00 \$ 3,400.00	\$ 14,535.00	\$ \$ \$	19,857 152,239 19,411 42,070 8,470 69,951 13,990 12,591 96,533
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Conlingency Item if needed: Engineering Fabric Conlingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance Mobilization Allowance N. M. M. Memorial Drive New Sidewalk, None Existing (+/- 2,481 LF)	285 285 285 1 385 480 480 1 1 72 1 1	SY SY SY AL SY SY SY AL AL	\$ 51.00 \$ 5.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 22.50 \$ 51.00 \$ 6.60 \$ 7.00 \$ 3,400.00 \$ 2,400.00 \$ 3,400.00	\$ 14,535.00	\$ \$ \$	19,857 152,239 19,411 42,070 8,470 69,951 13,990 12,591 96,533
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4" Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance Mobilization Allowance New Sidewalk, None Existing (+/- 2,481 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	285 285 285 285 1 385 480 480 480 1 1 72 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SY SY SY AL SY SY SY AL SF AL	\$ 51.00 \$ 5.60 \$ 7.00 \$ 1,000.00 \$ 2,400.00 \$ 2,400.00 \$ 3,400.00 \$ 3,400.00 \$ 3,400.00 \$ 3,400.00	\$ 14,535.00	\$ \$ \$	19,857 152,239 19,411 42,070 8,470 69,951 13,990 12,591 96,533
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4" Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance Mobilization Allowance New Sidewalk, None Existing (+/- 2.481 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Engineering Fabric Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance	285 285 285 285 1 385 480 480 480 1 1 72 1 1 1 Bennett Street S	SY SY SY AL SY SY SY AL AL SF AL AL	\$ 51.00 \$ 2.400.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 2.400.00 \$ 2,400.00 \$ 2,400.00 \$ 50.00 \$ 50.00 \$ 50.00 \$ 50.00 \$ 50.00 \$ 750.00 \$ 3,400.00 \$ 51.00	\$ 14,535.00	\$ \$	19,857 152,239 19,411 42,070 8,470 69,951 13,990 12,591 96,533
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance New Sidewalk, None Existing (+/- 2,481 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance And Complement Item Existing (+/- 2,481 LF) S' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Site Preparation and Grading Allowance Finish Grading & Seeding Allowance Finish Grading & Seeding Allowance Finish Grading & Seeding Allowance	285 285 285 285 1 385 480 480 1 1 72 1 1 1	SY SY SY AL SY SY SY AL SF AL AL AL	\$ 51.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 22.50 \$ 51.00 \$ 2.50 \$ 51.00 \$ 3.70 \$ 3.400.00 \$ 750.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00	\$ 14,535,00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	19,857 152,235 19,411 42,070 8,470 69,951 13,990 12,591 96,533
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4" Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance Mobilization Allowance New Sidewalk, None Existing (+/- 2.481 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Engineering Fabric Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance	285 285 285 285 1 385 480 480 1 1 72 1 1 1	SY SY SY AL SY SY SY AL AL SF AL AL	\$ 51.00 \$ 2.400.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 2.400.00 \$ 2,400.00 \$ 2,400.00 \$ 50.00 \$ 50.00 \$ 50.00 \$ 50.00 \$ 50.00 \$ 750.00 \$ 3,400.00 \$ 51.00	\$ 14,535.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	19,857 152,239 19,411 42,070 8,470 69,951 13,990 12,591 96,533
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance New Sidewalk, None Existing (+/- 2,481 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance And Complement Item Existing (+/- 2,481 LF) S' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Site Preparation and Grading Allowance Finish Grading & Seeding Allowance Finish Grading & Seeding Allowance Finish Grading & Seeding Allowance	285 285 285 285 1 385 480 480 1 1 72 1 1 1	SY SY SY AL SY SY SY AL SF AL AL AL	\$ 51.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 22.50 \$ 51.00 \$ 2.50 \$ 51.00 \$ 3.70 \$ 3.400.00 \$ 750.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00	\$ 14,535,00 \$ 14,535,00 \$ 1,881,00 \$ 1,995,00 \$ 1,000,00 \$ 8,662,50 \$ 24,480,00 \$ 3,360,00 \$ 3,360,00 \$ 4,320,00 \$ 750,00 \$ 3,400,00 \$ 75	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	19,857 152,235 19,411 42,070 8,470 69,951 13,990 12,59; 93,648 1,550 4,800
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance New Sidewalk, None Existing (+/- 2,481 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance And Complement Item Existing (+/- 2,481 LF) S' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Site Preparation and Grading Allowance Finish Grading & Seeding Allowance Finish Grading & Seeding Allowance Finish Grading & Seeding Allowance	285 285 285 285 1 385 480 480 1 1 72 1 1 1	SY SY SY AL SY SY SY AL SF AL AL AL	\$ 51.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 22.50 \$ 51.00 \$ 2.50 \$ 51.00 \$ 3.70 \$ 3.400.00 \$ 750.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00	\$ 14,535.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	19,857 152,239 19,411 42,070 8,470 69,951 13,990 12,591 96,533 93,646 4,800 99,998
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5' PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance New Sidewalk, None Existing (+/- 2,481 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance And Complement Item Existing (+/- 2,481 LF) S' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Site Preparation and Grading Allowance Finish Grading & Seeding Allowance Finish Grading & Seeding Allowance Finish Grading & Seeding Allowance	285 285 285 285 1 385 480 480 1 1 72 1 1 1	SY SY SY AL SY SY SY AL SF AL AL AL	\$ 51.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 22.50 \$ 51.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 2,400.00 \$ 3,400.00 \$ 3,400.00 \$ 3,400.00 \$ 3,400.00 \$ 5,750.00 \$ 5,700 \$ 1,550.00 \$ 4,800.00	\$ 14,535.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	19,857 152,239 19,411 42,070 8,470 69,951 13,990 12,591 96,533 93,646 4,800 4,909 99,998
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4" Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance New Sidewalk, None Existing (+/- 2,481 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Associated Excavation Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Finish Grading & Seeding Allowance Finish Grading & Seeding Allowance Mobilization Allowance	285 285 285 285 1 385 480 480 480 1 72 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SY SY SY AL SY SY SY AL SY SY SY AL AL AL SF AL AL AL AL AL AL	\$ 51.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 22.50 \$ 51.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 2,400.00 \$ 3,400.00 \$ 3,400.00 \$ 3,400.00 \$ 3,400.00 \$ 5,750.00 \$ 5,700 \$ 1,550.00 \$ 4,800.00	\$ 14,535,00 \$ 14,535,00 \$ 1,881,00 \$ 1,995,00 \$ 1,000,00 \$ 8,662,50 \$ 24,480,00 \$ 3,360,00 \$ 3,360,00 \$ 4,320,00 \$ 750,00 \$ 3,400,00 \$ 75	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	19,857 152,239 19,411 42,070 8,470 69,951 13,990 12,591 96,533 93,648 4,800 99,998 17,999
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Demolition, +/- 4" Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance New Sidewalk, None Existing (+/- 2,481 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Associated Excavation Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Finish Grading & Seeding Allowance Finish Grading & Seeding Allowance Mobilization Allowance	285 285 285 285 1 385 480 480 480 1 72 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SY SY SY AL SY SY SY AL SY SY SY AL AL AL SF AL AL AL AL AL AL	\$ 51.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 22.50 \$ 51.00 \$ 2.50 \$ 51.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 4.500.00 \$ 4.500.00 \$ 4.500.00 \$ 4.500.00 \$ 4.500.00 \$ 4.500.00 \$ 4.500.00 \$ 4.500.00	\$ 14,535,00 \$ 14,535,00 \$ 1,881,00 \$ 1,995,00 \$ 1,000,00 \$ 8,662,50 \$ 24,480,00 \$ 3,360,00 \$ 3,360,00 \$ 750,00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	19,857 152,239 19,411 42,070 8,470 69,951 13,990 12,591 96,533 93,646 4,800 99,998
Bennett St. New Sidewalk, None Existing (+/- 508 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Removal and Replacement: Fair Condition (+/- 861 LF) Existing Sidewalk Removal and Replacement: Fair Condition Contingency Item if needed: Engineering Fabric Contingency Item if needed: Engineering Fabric Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Entire Project Area ADA Compliant Detectable Warning Panel Finish Grading & Seeding Allowance Mobilization Allowance New Sidewalk, None Existing (+/- 2,481 LF) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item if needed: Engineering Fabric Contingency Item if needed: Engineering Fabric Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance Finish Grading & Seeding Allowance Mobilization Allowance	285 285 285 285 285 1 3885 480 480 480 1 1 72 1 1 1 1 Bennett Street S 1,380 1,380 1,380 1 1 1 1	SY SY SY AL SY SY AL AL AL idewalk (SY SY AL AL AL	\$ 51.00 \$ 6.60 \$ 7.00 \$ 1,000.00 \$ 22.50 \$ 51.00 \$ 2.50 \$ 51.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 3.400.00 \$ 4.500.00 \$ 4.500.00 \$ 4.500.00 \$ 4.500.00 \$ 4.500.00 \$ 4.500.00 \$ 4.500.00 \$ 4.500.00	\$ 14,535,00 \$ 14,535,00 \$ 1,881,00 \$ 1,995,00 \$ 1,000,00 \$ 8,662,50 \$ 24,480,00 \$ 3,360,00 \$ 3,360,00 \$ 3,168,00 \$ 3,360,00 \$ 4,320,00 \$ 750,00 \$ 3,400,00 \$ 750,00 \$ 70,380,00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	19,857 152,239 19,411 42,070 8,470 69,951 13,990 12,591 96,533 93,648 4,800 99,998 17,999



Lighting & Sidewalks

Overview

A major component in improving accessibility and connectivity (both visual and physical) is lighting. Almost all user groups indicated that they would like to see lighting throughout town improved, especially along primary routes such as Park Road. Refer to board 6, "Concept Plan", for proposed priority corridors to receive lighting.

Lighting

The typical section on board 10 (figure 10a) demonstrates the scale and different types of lighting envisioned and shown in the various concepts illustrated in the board set. Figure 10b is an enlarged photo of the pedestrian light fixture illustrated in the typical section above and the various proposed concepts. Figures 10c and 10d are a few examples of lighting banners for the lighting concepts created by the design team. The banner designs integrate the city logo in order to strengthen visual connectivity and strengthen city branding efforts.

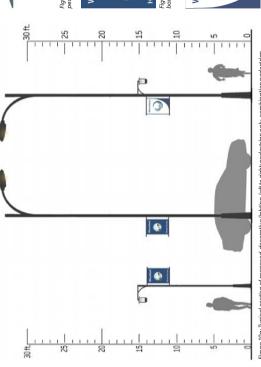
The pedestrian light fixture style shown is considered to be "transitional". The transitional style combines the historic nature of Wheatland with a modern and contemporary twist. The vehicular lighting proposed is the typical cobra head style common for lighting roadways and many city streets.

LED lighting is recommended for the lighting due to its longivety and reduction in operational costs. As with all public site amenities, it is important to make sure that the lights are commeridal grade and manufactured by a reputable and experienced company.

Accessibility

Accessibility means different things to different people, depending upon their experience and needs.

Ensuring pedestrian accessibility requires the consideration of a number of factors including: width, surface materials used, longitudinal and cross slope, distance from horizontal and vertical obstructions, site distances and clear zones at intersections, surface finish, joint construction, and presence of curbs or steps.



ttive lighting, left to right. Figure 10a: Typical section of prop and vehicular, and vehicular only





Existing Photo 10e: Southwest corner Vine St. & Benr St. intersection looking southerly







Figures 10c and 10d are a few examples of lighting banners

nature of Wheatland with a modern and contemporary twist. banner designs integrate the city logo in order to strengthen The pedestrian light fixture style shown is considered to be style common for lighting roadways and many city streets. for the lighting concepts created by the design team. The The vehicular lighting proposed is the typical cobra head transitional". The transitional style combines the historic visual connectivity and strengthen city branding efforts.

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Lighting & Accessibility

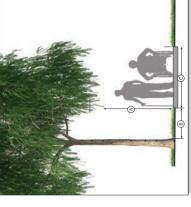
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scale and different types of lighting envisioned and shown in is an enlarged photo of the pedestrian light fixture illustrated

The typical section above (figure 10a) demonstrates the

the various concepts illustrated in this board set. Figure 10b

in the typical section above and the various proposed



Proposed Typical Sidewalk Section

Accessibility means different things to different people,

depending upon their experience and needs.

Photo edit 10f: Proposed improvements shown include painted crosswalk wider sidewalk (4 to 5), ADA compliant ramp with detectable warnings, and street trees



Ensuring pedestrian accessibility requires the consideration

intersections, surface finish, joint construction, and presence used, longitudinal and cross slope, distance from horizontal and vertical obstructions, site distances and clear zones at of a number of factors including: width, surface materials

of curbs or steps.

LA: Meg Flenker, PLA, ASLA, CPESC, CPSWQ

Interns: TJ Hillberry, Paola Monllor-Torres and Ethan Morrow lowa State University | Trees Forever | Ilowa Department of Transportation



FLENKER LAND ARCHITECTURE CONSULTANTS, LLC

Lighting & Sidewalks

Wheatland



Primary Corridors

Overview

Primary corridors are streets that serve as main routes for motorists and pedestrians to points of interest throughout town. These primary corridors are the priority areas identified to receive lighting and sidewalk enhancements first; these are also the corridors where the way-finding signage will be located.

The concepts illustrated on board 11 focus on Toronto Street and Lincoln Highway, however, as shown on the **Concept Plan Overview** (board 6), Highway 30, Main Street, Park Street, and a portion of Vine Street and Jefferson Street are also considered primary corridors.

Toronto Street

The illustrations of the concepts shown for the improvements for Toronto Street show two options. The second option is the same as the first option except that the overhead utility is placed underground and the road is redone with new pavement.

Following are the enhancements illustrated in the two different views of Toronto Street (refer to photo edits 11b, 11c, 11d, and 11e):

- Decorative vehicular and pedestrian lighting with two alternating types of decorative banners
- · Way-finding signage
- Defining the "edge" of the roadway by removing expansive drives that are not needed (this also improves circulation and safety for both motorist and pedestrians)
- Demarcation of crosswalks
- ADA compliant sidewalks
- Grass boulevard
- Open ditch enhancement: removal of woody vegetation and invasive, noxious and otherwise weedy species and replace with native grasses and forbs tolerant of field conditions

Lincoln Highway

The enhancements proposed for the Lincoln Highway corridor include the same as those listed for Toronto Street and are illustrated in Photo edit 11h.

Residents identified the importance of having a sidewalk or trail connect to Wheatland Manor. Providing ADA compliant sidewalks that are well lit will allow the community and residents of Wheatland Manor to safely walk around the neighborhood and other parts of town. The enhancements also highlight the importance of this historic corridor to visitors.

Primary Corridors

Primary corridors are streets that serve as main routes for motorists and pedestrians to points of interest throughout identified to receive lighting and sidewalk enhancements first; these are also the corridors where the way-finding town. These primary corridors are the priority areas signage will be located.

Park Street, and a portion of Vine Street and Jefferson Street Concept Plan Overview (board 6), Highway 30, Main Street, The concepts illustrated on this board focus on Toronto Street and Lincoln Highway, however, as shown on the are also considered primary corridors.

Toronto Street

The illustrations of the concepts shown for the improvements the same as the first option except that the overhead utility for Toronto Street show two options. The second option is is placed underground and the roadis redone with new

different views of Toronto Street (refer to photo edits 11b, 11c, Following are the enhancements illustrated in the two 11d, and 11e):

- Decorative vehicular and pedestrian lighting with two alternating types of decorative banners
- Way-finding signage
- improves circulation and safety for both motorist and Defining the "edge" of the roadway by removing expansive drives that are not needed (this also
- Demarcation of crosswalks
- ADA compliant sidewalks
 - Grass boulevard
- weedy species and replace with native grasses and vegetation and invasive, noxious and otherwise Open ditch enhancement: removal of woody forbs tolerant of field conditions



Existing photo 11a: N. Toronto St.; photo taken soutl of intersection with Jefferson St., looking norhterly



Photo edit 11e: Decorative lighting, ADA compliant sidewalks, and a nanaged ditch enhance the aesthetics of this important corridor. Photo edit 11b: Decorative lighting, ADA compliant sidewalks, and a managed ditch enhance the aesthetics of this important corridor.



Photo edit 11c: Concept illustrating the proposed enhancements with the overhead utility placed underground and new pavement

Photo edit 11f: Concept illustrating the proposed enhancements with the overhead utility placed underground and new pavement



Summer 2021 (11

Existing photo 11d:N. Toronto St.; photo taken south of intersection with Jefferson St., looking southerly

Existing photo 11g: Lincoln Highway, photo taken from Wheatland Manor drive way looking westerly



Photo edit 11h: Decorative lights with barners, ADA compliant sidewalks and way-finding signage contribute to highlighting the importance of this corridor

Lincoln Highway

The enhancements proposed for the Lincoln Highway corridor include the same as those listed for Toronto Street and are illustrated in Photo edit 11h.

trail connect to Wheatland Manor. Providing ADA compliant Residents identified the importance of having a sidewalk or residents of Wheatland Manor to safely walk around the sidewalks that are well lit will allow the community and neighborhood and other parts of town.

The enhancements also highlight the importance of this historic corridor to visitors.



FLENKER LAND ARCHITECTURE CONSULTANTS, LLC

Interns: TJHillberry, Paola Monllor-Torres and Ethan Morrow lowa State University | Trees Forever | Iowa Department of Transportation LA: Meg Flenker, PLA, ASLA, CPESC, CPSWQ



Primary Corridors Wheatland

PRIMARY CORRIDOR ENHANCEMENTS (See Boards #7, #8, #9, #10, & #11 for Visual)					Summer 2021
Description	Est. Estimated Estimated Description Qty. Unit Unit Cost Line Total			Estimated Totals	
Hwy. 30 (West City Limit/West Entryway to East Entryway Sign); +/- 3,900 LF	i Qiy.	i om	Offit Cost	Line Iolai	
Decorative Site Lighting Vehicular Lighting Only (Cobra)	44	EA	\$ 5,000.00	\$ 220,000.00	\$ 231,000.00
Wheatland Themed Light Banners Allowance	1	AL	\$ 11,000.00	\$ 11,000.00	
Landscaping Street Trees, Deciduous	70	EA	\$ 350.00	\$ 24,500.00	\$ 34,570.00
Decorative Shredded Hardwood Mulch	230	SY	\$ 350.00 \$ 9.00	\$ 24,500.00 \$ 2,070.00	
Site Preparation Allowance	1	AL	\$ 8,000.00	\$ 8,000.00	
Way-Finding Signage Aluminium Signage Panel	52	SF	\$ 70.00	\$ 3,640.00	\$ 5,240.00
Break-A-Way Posts	4	EA	\$ 400.00	\$ 1,600.00	
Mobilization Allowance]]	AL	\$ 13,700.00	\$ 13,700.00	\$ 13,700.00
				Section Subtotal	\$ 284,510.00
				age 20% Contingency	\$ 56,902.00
Hwy 30 Primary (Corridor Enha	ancement	Design & Ei Is Opinion of Total Proba	ngineering Allowance	\$ 51,211.80 \$ 392,623.80
This is a second of the second	John Line		o opinion or rotal rioba		C72,020.00
Toronto St./Y-32/130th Ave. (Hwy. 30 to north side of high school; +/- 3,600 LF					
Sidewalk					\$ 175,430.50
New Sidewalk (None Existing) 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	1,140	SY	\$ 51.00	\$ 77,344.00 \$ 58,140.00	
Contingency Item if needed: Engineering Fabric	1,140	SY	\$ 6.60	\$ 7,524.00	
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	1,140	SY	\$ 7.00	\$ 7,980.00	
Site Preparation and Grading Allowance Existing Sidewalk Removal and Replacement (Poor Condition)	1	AL	\$ 3,700.00	\$ 3,700.00 \$ 9,195.50	
Existing Sidewalk Demolition, +/- 4' Wide	85	SY	\$ 22.50	\$ 1,912.50	
5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Engineering Fabric	105 105	SY SY	\$ 51.00 \$ 6.60	\$ 5,355.00 \$ 693.00	
Contingency Item I needed: Engineering Pablic Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	105	SY	\$ 7.00	\$ 735.00	
Site Preparation and Grading Allowance	1	AL	\$ 500.00	\$ 500.00 \$ 38,970.00	
Existing Sidewalk Removal and Replacement (Fair Condition) Existing Sidewalk Demolition, +/- 4' Wide	360	SY	\$ 22.50	\$ 38,970.00 \$ 8,100.00	
5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	450	SY	\$ 51.00	\$ 22,950.00	
Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	450 450	SY SY	\$ 6.60 \$ 7.00	\$ 2,970.00 \$ 3,150.00	
Site Preparation and Grading Allowance	1	AL	\$ 1,800.00	\$ 1,800.00	
Existing Sidewalk Removal and Replacement (Good Condition)	210	CV	4 20.50	\$ 22,621.00	
Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	260	SY SY	\$ 22.50 \$ 51.00	\$ 4,725.00 \$ 13,260.00	
Contingency Item if needed: Engineering Fabric	260	SY	\$ 6.60	\$ 1,716.00	
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance	260	SY AL	\$ 7.00 \$ 1,100.00	\$ 1,820.00 \$ 1,100.00	
Entire Project Area	<u> </u>	712	ψ 1,100.00	\$ 27,300.00	
ADA Compliant Detectable Warning Panel	380	SF AL	\$ 60.00 \$ 4,500.00	\$ 22,800.00 \$ 4,500.00	
Finish Grading & Seeding Allowance Decorative Site Lighting	'	AL	\$ 4,300.00	4,300.00	\$ 534,000.00
Vehicular Lighting Only (Cobra)	13	EA	\$ 5,000.00	\$ 65,000.00	
Vehicular & Pedestrian Combo Pedestrian Lighting Only	27 27	EA EA	\$ 9,500.00 \$ 7,500.00	\$ 256,500.00 \$ 202,500.00	
Wheatland Themed Light Banners Allowance	i i	AL	\$ 10,000.00	\$ 10,000.00	
Stormwater Ditch Enhancement/Improvement Vegetation Removal (Invasive, Noxious, Weedy & Otherwise Undesirable Vegetation) Allowance	1	AL	\$ 5,000.00	\$ 5,000.00	\$ 14,000.00
Seeding Preparation and Seeding with Native Herbacous Vegetation Allowance	1	AL	\$ 9,000.00	\$ 9,000.00	
Traffic Control	,				\$ 6,500.00
Crosswalk Pavement Marking Allowance Regulatory Signage Allowance	1	AL AL	\$ 2,000.00 \$ 4,500.00	\$ 2,000.00 \$ 4,500.00	1
Way-Finding Signage					\$ 5,240.00
Aluminium Signage Panel Break-A-Way Posts	52 4	SF EA	\$ 70.00 \$ 400.00	\$ 3,640.00 \$ 1,600.00	
Removal of Expansive Drives (Access Control)	4	LA	\$ 400.00	\$ 1,000.00	\$ 7,386.60
Driveway Demolition within Public Right-of-Way	86	SY			
Site Preparation and Grading Allowance 6" Paved (PCC) Drive - See Concept #11B)	36	AL SY	\$ 2,000.00 \$ 54.50		1
Contingency Item if needed: Engineering Fabric	36	SY	\$ 6.60	\$ 237.60	
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Final Grading and Seeding Allowance	36 1	SY AL	\$ 7.00 \$ 1,000.00	\$ 252.00 \$ 1,000.00	
Mobilization Allowance	1	AL	\$ 37,200.00	\$ 37,200.00	\$ 37,200.00
				Section Subtotal	
				age 20% Contingency ngineering Allowance	\$ 155,951.42 \$ 145,936.28
Toronto Street Primary (Corridor Enha	ıncement	ts Opinion of Total Proba		
Lincoln Highway/Z24 (West City Limit to East Edge of Wheatland Manor); +/- 3,600 LF					
Sidewalk New Sidewalk (None Existing)	+	 	 	\$ 65,539.00	\$ 273,193.00
5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	965	SY	\$ 51.00	\$ 49,215.00	
Contingency Item if needed: Engineering Fabric	965	SY	\$ 6.60	\$ 6,369.00	
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance	965 1	SY AL	\$ 7.00 \$ 3,200.00	\$ 6,755.00 \$ 3,200.00	
Existing Sidewalk Removal and Replacement (Fair Condition)	200			\$ 32,873.00	
Existing Sidewalk Demolition, +/- 4' Wide 5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	300 380	SY SY	\$ 22.50 \$ 51.00	\$ 6,750.00 \$ 19,380.00	
Contingency Item if needed: Engineering Fabric	380	SY	\$ 6.60	\$ 2,508.00	
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	380	SY		\$ 2,660.00	1
Site Preparation and Grading Allowance	1	AL	\$ 1,575.00	\$ 1,575.00	

RIMARY CORRIDOR ENHANCEMENTS (See Boards #7, #8, #9, #10, & #11 for Visual)								Summer 2021
	Est.	l		Estimated	l	Estimated		Estimated
Description	Qty.	Unit		Unit Cost		Line Total		Totals
Aluminium Signage Panel	58	SF	\$	70.00	\$	4,060.00		
Break-A-Way Posts	4	EA	\$	400.00	\$	1,600.00		
lobilization Allowance	1	AL	\$	22,750.00	\$	22,750.00	\$	22,750
						0 11 0 1 1 1	•	475.144
				C101-		Section Subtotal 20% Contingency		475,166 95.033
						eering Allowance	\$	
Main Street Prim	ary Corridor Enha	ncemen	ts Op	inion of Total Proba				88,942 659,142
							•	
ine St. (South Entrance to City Park to Toronto St.)l; +/- 210 LF								
idewalk							\$	18,458
New Sidewalk (None Existing)					\$	18,458.00		
5' Wide Paved Sidewalk On Grade (5" PCC) and Excavation	230	SY	\$	51.00	,	11,730.00		
Contingency Item if needed: Engineering Fabric	230	SY	\$	6.60	\$	1,518.00		
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	230	SY	\$	7.00	\$	1,610.00		
Site Preparation and Grading Allowance	1	AL	\$	800.00		800.00		
ADA Compliant Detectable Warning Panel	30	SF	\$	60.00	\$	1,800.00		
Finish Grading & Seeding Allowance	1	AL	\$	1,000.00	\$	1,000.00		
ecorative Site Lighting							\$	69,300
Vehicular & Pedestrian Combo	3	EA	\$	9,500.00		28,500.00		
Pedestrian Lighting Only	5	EA	\$	7,500.00		37,500.00		
Wheatland Themed Light Banners Allowance	1	AL	\$	3,300.00	\$	3,300.00		
raffic Control							\$	1,000
Crosswalk Pavement Marking Allowance	1	AL	\$	500.00		500.00		
Regulatory Signage Allowance	1	AL	\$	500.00	\$	500.00		
/ay-Finding Signage							\$	2,830
Aluminium Signage Panel	29	SF	\$	70.00	\$	2,030.00		
Break-A-Way Posts	2	EA	\$	400.00		800.00		
Abbilization Allowance	1	AL	\$	4,600.00	\$	4,600.00	\$	4,600
						Cartina Caletata	¢	07.100
				C101		Section Subtotal	_	96,188
						20% Contingency eering Allowance	\$	19,237 18,003
Vinc Charles Drive	C		1. 0	inion of Total Proba			3	133,429
Vine Street Prim	iary Corridor Enno	incemen	its Op	inion of lotal Proba	ible (Construction Cost	ş	133,429
PRIMARY CORRIDOR E	NHANCEMENT	: Onini	on o	Probable Total	Cor	estruction Coet*	9	4.230.728.
T RIWART CORRIDOR E	INTANCEMENT.	, opini	011 0	Trobable foldi	C01	isilociioli Cosi	Ÿ	4,230,720.
stimate does not include property easements, land acquisitions, site/boundary surveys, or any uti	lity modifications							

Trails

Overview

As noted on board 9, during the community TAB workshops, Wheatland residents from all user groups expressed the need and desire for a trail system within and around Wheatland and connecting to Calamus. In addition, the youth cited that a trail could be used for track runners since the Cal-Wheat school district has no track for the runners to practice, thus forcing them to use the road since most of the sidewalks are intermittent or pose concerns for runners.

Families and recreational users prefer separated trails over other types because of safety. In fact, studies have shown that use drops dramatically for other types of trails such as sharrows, paved shoulders, and bike lanes. While the ultimate goal for the community is to have a separated multi-use trail system, there are segments where a shared road (sharrow) may need to be utilized due to field conditions and/or property ownership as well as other constraints.

The concepts illustrated on board 12 are of the separated trail segments. Refer to Cal-Wheat boards 1 through 4 for concepts proposed for the trail connection between Wheatland and Calamus.

High Schoool

A trail is proposed to go around the northern, western and eastern perimeter of the school grounds in order to provide critical and safe access and connectivity to the area. It is envisioned that the trail could meander between the rows of most of the existing evergreens that are located on the northwest corner of the property and be installed with.

In addition to the trail, other site amenities include: way-finding signage, decorative lighting and banners, addressing accessibility to the trail and existing sidewalk, implementing a marked crosswalk on E. Park Street, and repairing and managing eroded areas like was present at the end of the sidewalk.

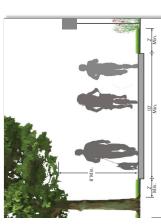
Parks

Linking the proposed trail system to both Lions Park and City Park, including adding a sidewalk network within the parks ranked high with the community. The trail is seen as a much needed improvement that will provide all age groups with added recreational opportunities and enhance the circulation as well as provide access to the portion of Lions Park that is on the west and south side of the creek.

As noted on board 9, during the community TAB workshops, the Cal-Wheatschool district has no track for the runners to practice, thus forcing them to use the road since most of the youth cited that a trail could be used for track runners since Wheatland and connecting to Calamus. In addition, the the need and desire for a trail system within and around sidewalks are intermittent or pose concerns for runners. Wheatland residents from all user groups expressed

Families and recreational users prefer separated trails over other types because of safety. In fact, studies have shown shared road (sharrow) may need to be utilized due to field that use drops dramatically for other types of trails such as sharrows, paved shoulders, and bike lanes. While the ultimate goal for the community is to have a separated conditions and/or property ownership as well as other multi-use trail system, there are segments where a

The concepts illustrated on this board are of the separated trail segments. Refer to Cal-Wheat boards 1 through 4 for concepts proposed for the trail connection between Wheatland and Calamus.



igure 12a: Proposed typical separated recreational trail section

Wheatland



Existing photo 12α : Looking northerly along the west side of the school from the intersection of N. Toronto St. and E. Park St.



Existing photo 12c: North end of Lions Park on west side of creek; photo taken from W. Park Street looking southerly

Existing photo 12e: south side of baseball diamond in Lions Park (north side of creek), photo taken looking



Photo edit 12f; The new trail system is proposed o meander through Lions Park and City Park connecting the south side of Lions Park to the north side via pedestrian bridge.

Photo edit 12d: The new trail system is proposed to have site amenities to enhance the comfort and enjoyment of the user

Ilustrated in photo edit 12f.

Way-finding and interpretive signage

parks ranked high with the community. The trail is seen as a

City Park, including adding a sidewalk network within the

eastern perimeter of the school grounds in order to provide

envisioned that the trail could meander between the rows critical and safe access and connectivity to the area. It is

of most of the existing evergreens that are located on the

A trail is proposed to go around the northern, western and

High School

Photo edit 12b: A portion of the community trail system is proposed to provide connectivity to the school as a separated trail, providing safe access for youth and other community members to access the school and filmess

Linking the proposed trail system to both Lions Park and

much needed improvement that will provide all age groups circulation as well as provide access to the portion of Lions

with added recreational opportunities and enhance the

- receptacles, bike racks, water filling stations, and dog Site amenities that inloude benches, trash
- vegetation and invasive, noxious and otherwise Open ditch enhancement: removal of woody
- Supplemental planting of shade trees tolerant of site



The enhancements proposed include:

- weedy species and replace with native grasses and forbs tolerant of field conditions
 - conditions,, such as Honeylocust



over from the south side of the creek to the north side. This is A pedestrian bridge is proposed to allow the trail to cross

As can be seen in photo edit 12d, the proposed trail will enter

the north side of Lions Park between the exisiting creek Park that is on the west and south side of the creek.

> finding signage, decorative lighting and banners, addressing accessibility to the trail and existing sidewalk, implementing

In addition to the trail, other site amenities include: waynorthwest corner of the property and be installed with.

managing eroded areas like was present at the end of the

a marked crosswalk on E. Park Street, and repairing and

corridor and the western property line.

FLENKER LAND ARCHITECTURE CONSULTANTS, LLC LA: Meg Flenker, PLA, ASLA, CPESC, CPSWQ

Interns: TJHillberry, Paola Monllor-Torres and Ethan Morrow lowa State University | Trees Forever | Iowa Department of Transportation As can be seen in photo edit 12d, the proposed trail will enter the north side of Lions Park between the exisitng creek corridor and the western property line.

A pedestrian bridge is proposed to allow the trail to cross over from the south side of the creek to the north side. This is illustrated in photo edit 12f.

The enhancements proposed include:

- Way-finding and interpretive signage
- Site amenities that inloude benches, trash receptacles, bike racks, water filling stations, and dog stations
- Open ditch enhancement: removal of woody vegetation and invasive, noxious and otherwise weedy species and replace with native grasses and forbs tolerant of field conditions
- Supplemental planting of shade trees tolerant of site conditions,, such as Honeylocust

CONNECTIVITY: TRAIL (See Boards # 6, #11 & #12 for Visual)								Summer 2021
•	Est.			Estimated		Estimated		Estimated
Description	Qty.	Unit		Unit Cost		Line Total		Totals
Sharrow Segment (Shared Street)								
Sharrow (+/- 11,660 LF ~ 2.21 Mi.) ~ within City Limits							\$	25,000.00
Share-The-Road Pavement Markings, Symbols, Allowance	1	AL	\$	9,500.00	\$	9,500.00		
Share-The-Road Pavement Markings, Symbols, Allowance	1	AL	\$	15,500.00	\$	15,500.00		
Mobilization Allowance	1	AL	\$	1,250.00	\$	1,250.00	\$	1,250.00
					Se	ection Subtotal	\$	26,250.0
				Concept Staa		6 Contingency		5,250.0
						ring Allowance		4,725,0
SI	harrow Trail Se	gment O	pinion			nstruction Cost*		36,225.0
Separated Trail (10' Wide with 2' Grass Shoulders); +/- 0.37 Miles	_							
rail Segment 1 (+/- 1,980 LF) ~ Memorial Drive west toward high school to E. Park Rd							\$	187,239.8
10' Wide Trail, Payed (5" PCC) On Grade: and Excavation	2,200	SY	\$	51.00	\$	112,200.00		
Contingency Item if needed: Engineering Fabric	2,200	SY	\$	6,60	\$	14,520.00		
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	2,200	SY	\$	7.00	\$	15,400.00		
Final Grading and Preparation Allowance	1	AL	\$	11,000.00	\$	11,000.00		
Seeding (Shoulders) Allowance	1	AL	\$	1,300.00	\$	1,300.00		
Painted Pavement Markings (Centerline)	1,980	LF	\$	1.75	\$	3,465.00		
ADA Compliant Detectable Warning Panel	40	SF	\$	60.00	\$	2,400.00		
Trail Way-finding Signage Allowance	1	AL	\$	6,000.00	\$	6,000.00		
Site Amenities (Benches, Trash Receptacles, Bike Racks) and associated PCC pads Allowance								
Metal & Plastic Bench, 6'	3	EA	\$	2,200.00	\$	6,600.00		
Metal & Plastic Trash Receptacle	3	EA	\$	1,800.00	\$	5,400.00		
Metal Bike Rack	1	AL	\$	6,000.00	\$	6,000.00		
Paved (5" PCC) Site Amenity Pads On Grade; and Excavation	38	SY	\$	51.00	\$	1,938.00		
Contingency Item if needed: Engineering Fabric	38	SY	\$	6.60	\$	250.80		
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	38	SY	\$	7.00	\$	266.00		
Final Grading and Preparation Allowance	1	AL	\$	500.00	\$	500.00		
Decorative Site Lighting (+/- 1,530 LF adjacent to school property)							\$	257,000.0
Pedestrian Light Only	34	EA	\$	7,500.00	\$	255,000.00		
School Themed Light Banners Allowance	1	AL	\$	2,000.00	\$	2,000.00		
Aobilization Allowance	1	AL	\$	10,500.00	\$	10,500.00	\$	10,500.0
					2	ection Subtotal	¢	454,739,8
				Concent Stan		6 Contingency		90,947.9
						ring Allowance		83,428,1
	Separate	d TrailOp	inion			nstruction Cost*		639,615.9
TRAIL COM	JECTIVITY: O	ninian	of Dro	hable Tetal C	`ancl	ruelien Carl*	S	47E 040 0
IRAIL CONF	VECTIVITY: O	binion (טו דוס	buble lotal C	JONST	ruction Cost*	Ş	675,840.92
Estimate does not include property easements, land acquisitions, site/boundary surveys, or any utility mo	odifications.							

Lions Park & City Park

Overview

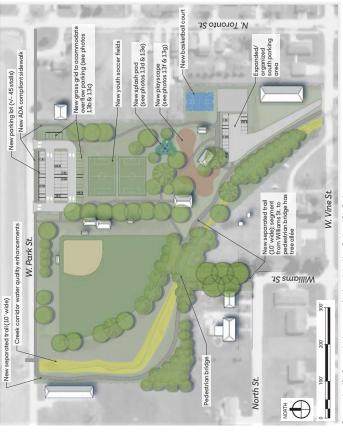
Lions Park and City Park are often viewed as one park because of their adjacency, together they serve as a main community attraction and destination - offering a variety of both passive and active recreational opportunities.

During the TAB and design workshops, community members expressed their concerns over the limited parking and the safety issues involved with having cars back out onto Park St from the north parking area. The residents also noted the need for accessible sidewalks within the park, especially between the ball field and the playground. Other needed enhancements identified included a new playground and a splash pad, and a need to better manage storm water and improve water quality.

Concept plan 13a on board 13 illustrates the proposed enhancements envisioned and their approximate location. Photos 13b through 13g show a few examples of what some of the proposed enhancements could look like. For instance, instead of a themed splash pad, some different options may to be go with a design that utilizes bright colors and more abstract equipment (13d) or one that is reflective of nature and more naturalized (13e) – the selection should integrate with and be complimentary to the style chosen for the playscape. Photo 13f shows a transitional playscape, while Photo 13g shows a playscape that is naturalistic and would pair well with the naturalized splash pad shown in photo 13e.

Photo edits 12d and 12f on board 12 illustrate the vision for the proposed trail and creek corridor within the parks. Partial concept plan 13h on this board illustrates an alternate route for the trail to enter Lions Park from the north. This alternate route is the least desirable because of it's location behind the outfield of the ball field, of which the majority of residents at the design workshop agreed.

All of the enhancements proposed will improve the safety, and contribute to the overall health and well-being of the community. When appropriate, elements of the enhancements such as the permeable grass grid and native vegetation have been integrated to help manage storm-water in order to reduce runoff and improve water quality.



Concept plan 13a: Proposed enhancements for the existing Lions Park and City Park

Lions Park & City Park

community attraction and destination – offering a variety of because of their adjacency, together they serve as a main Lions Park and City Park are often viewed as one park both passive and active recreational opportunities. During the TAB and design workshops, community members safety issues involved with having cars back out onto Park St ssed their concerns over the limited parking and the from the north parking area. The residents also noted the need for accessible sidewalks within the park, especially

enhancements identified included anew playground and a splash pad, and a need to better manage storm water and between the ball field and the playground. Other needed improve water quality.

Photos 13b through 13g show a few examples of what some of the proposed enhancements could look like. For instance, instead of a themed splash pad, some different options may enhancements envisioned and their approximate location. to be go with a design that utilizes bright colors and more Concept plan 13a above illustrates the proposed



Photo 13b: Grass Grid Example

Summer **2021** 13



Photo 13d: Splash Pad Example

Photo 13f: Playground Exc

abstract equipment (13d) or one that is reflective of nature and more naturalized (13e) - the selection should integrate with and be complimentary to the style chosen for the

the proposed trail and creek corridor within the parks. Partial concept plan 13h on this board illustrates an alternate route Photo edits 12d and 12f on board 12 illustrate the vision for

pair well with the naturalized splash pad shown in photo 13e,

playscape. Photo 13f shows a transitional playscape, while Photo 13g shows a playscape that is naturalistic and would

route is the least desirable because of it's location behind the for the trail to enter Lions Park from the north. This alternate



Partial concept plan 13h: The plan above shows an alternate route for the 10' wide separated trail on the northwest portion of the park

outfield of the ball field, of which the majority of residents at the design workshop agreed.

All of the enhancements proposed willimprove the safety native vegetation have been integrated to help manage storm-water in order to reduce runoff and improve water enhancements such as the permeable grass grid and and contribute to the overall health and well-being of the community. When appropriate, elements of the quality.



FLENKER LAND ARCHITECTURE CONSULTANTS, LLC

Interns: TJ Hillberry, Paola Monllor-Torres and Ethan Morrow LA: Meg Flenker, PLA, ASLA, CPESC, CPSWQ

Lions Park & City Park

Wheatland

LIONS PARK & CITY PARK ENHANCEMENTS (See Boards #7, #12 & #13 for Visual)							Summer 2021 Estimated			
Description	Est. Qty.	Unit		Estimated Unit Cost		Estimated Line Total		Estimated Totals		
City Park and Lions Park Enhancements	Qiy.	Om		Olin Cosi		Line Total				
North End Parking Lot Paved (Asphalt) Parking Lot, includes Aggregate Base Course & Excavation	2,326	SY	đ	40.00	\$	93,040.00	\$	149,391.60		
Contingency Item if needed: Engineering Fabric	2,326	SY	\$	6.60	\$	15,351.60				
Final Grading and Preparation Allowance	1	AL	\$	7,000.00	\$	7,000.00				
Pavement Marking Allowance (Stall lines, Arrows, ADA Logo)	2590	AL SF	\$	6,000.00	\$	6,000.00 25,900.00				
Grass Grid Parking Area Regulatory Signage Allowance	2370	AL	\$	2,100.00	\$	2,100.00				
South End Parking Lot					Ť		\$	83,572.00		
Paved (Asphalt) Parking Lot, includes Aggregate Base Course & Excavation	1,670	SY	\$	40.00	\$	66,800.00				
Contingency Item if needed: Engineering Fabric Final Grading and Preparation Allowance	1,670	SY AL	\$ \$	6.60 3,250.00	\$	11,022.00 3,250.00				
Pavement Marking Allowance (Stall Ilnes, ADA Logo)	1	AL	\$	1,500.00	\$	1,500.00				
Regulatory Signage Allowance	1	AL	\$	1,000.00	\$	1,000.00	*	5.500.00		
Demolition North Cut-off Wood Posts Removal Allowance	1	AL	\$	2,000.00	\$	2,000.00	>	5,500.00		
Removal of Existing Pavement Slab for Playground	1	AL	\$	3,500.00	\$	3,500.00				
Separated Trail (10' Wide with 2' Grass Shoulders); +/- 1,500 LF							\$	213,245.40		
10' Wide Trail, Paved (5" PCC) On Grade; and Excavation Contingency Item if needed: Engineering Fabric	1,670 1,670	SY SY	\$ \$	51.00	\$	85,170.00 11,022.00				
Contingency Item It needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	1,670	SY	\$	7.00	\$	11,690.00				
Final Grading and Preparation Allowance	1	AL	\$	2,500.00	\$	2,500.00				
Seeding (Shoulders) Allowance ADA Compliant Detectable Warning Panel	60	AL SF	\$	1,250.00		1,250.00 3,600.00				
Trail Signage (Regulatory, Interpretive, Way-finding) Allowance	1	AL	\$	60.00 12,600.00	\$	12,600.00				
Pavement Marking, Centerline	1500	LF	\$	1.75	\$	2,625.00				
Site Amenities (Benches, Trash Receptacles, Bike Racks) and associated PCC pads Allowance			4		_			· · · · · · · · · · · · · · · · · · ·		
Metal & Plastic Bench, 6' Metal & Plastic Trash Receptacle	8	EA EA	\$	2,200.00 1,800.00	\$	17,600.00 7,200.00				
Metal Bike Rack	1	AL	\$	6,000.00		6,000.00				
Paved (5" PCC) Site Amenity Pads On Grade; and Excavation	54	SY	\$	51.00		2,754.00				
Contingency Item if needed: Engineering Fabric	54	SY	\$	6.60	\$	356.40				
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Final Grading and Preparation Allowance	54	SY AL	\$ \$	7.00 500.00	\$	378.00 500.00				
Formal Native Plant Landscaping (by seating areas) Allowance	1	AL	\$	10,000.00		10,000.00				
W. Park Road Culvert Extension Allowance	1	AL	\$	8,000.00		8,000.00				
Pedestrian Pre-fab Bridge Allowance Park Entryway Signage	1	AL	\$	30,000.00	\$	30,000.00	ø	40,000.00		
North Entrance Identify Park Signage Allowance	1	AL	\$	15,000.00	\$	15,000.00	φ	40,000.00		
North Entrance Identity Park Signage Landscape Allowance	1	AL	\$	5,000.00		5,000.00				
South Entrance Identity Park Signage Allowance	1	AL	\$	15,000.00		15,000.00				
South Entrance Identity Park Signage Landscape Allowance Sidewalk (Varies by location, 6' Wide Minimum)	1	AL	\$	5,000.00	\$	5,000.00	¢	116,017.00		
Paved Sidewalk On Grade (5" PCC) and Excavation	1,140	SY	\$	51.00	\$	58,140.00	Ψ	110,017.00		
Contingency Item if needed: Engineering Fabric	1,140	SY	\$	6.60	\$	7,524.00				
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance	1,140	SY AL	\$	7.00 2,250.00	\$	7,980.00 2,250.00				
Final Grading and Seeding Allowance	1	AL	\$	750.00		750.00				
ADA Compliant Detectable Warning Panel	32	SF	\$	60.00	\$	1,920.00				
Site Amenities (Benches, Trash Receptacles) and associated PCC pads Allowance	10			0.000.00	•	00 000 00				
Metal & Plastic Bench, 6' Metal & Plastic Trash Receptacle	10	EA EA	\$	2,200.00 1,800.00		22,000.00 5,400.00				
Metal Bike Rack	1	AL	\$	6,000.00		6,000.00				
Paved (5" PCC) Site Amenity Pads On Grade; and Excavation	55	SY	\$	51.00	\$	2,805.00				
Contingency Item if needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	55 55	SY SY	\$	6.60 7.00	\$	363.00 385.00				
Site Preparation and Grading Allowance	1	AL	\$	500.00	\$	500.00				
Splash Pad							\$	64,915.00		
Splash Pad Allowance	1	AL	\$	50,000.00	\$	50,000.00				
Site Amenities (Benches, Trash Receptacles) and associated PCC pads Allowance Metal & Plastic Bench, 6'	5	EA	\$	2,200.00	\$	11,000.00				
Metal & Plastic Trash Receptacle	1	EA	\$	1,800.00		1,800.00				
Paved (5" PCC) Site Amenity Pads On Grade; and Excavation	25	SY	\$	51.00	\$	1,275.00				
Contingency Item if needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	25 25	SY SY	\$	6.60 7.00	\$	165.00 175.00				
Site Preparation and Grading Allowance	1	AL	\$	500.00	\$	500.00				
Playscape (Natural Playground)							\$	67,438.00		
Playground Allowance	1	AL	\$	50,000.00	\$	50,000.00				
Site Amenities (Benches, Trash Receptacles) and associated PCC pads Allowance Metal & Plastic Bench, 6'	6	EA	\$	2,200.00	\$	13.200.00				
Metal & Plastic Trash Receptacle	1	EA	\$	1,800.00	\$	1,800.00				
Paved (5" PCC) Site Amenity Pads On Grade; and Excavation	30	SY	\$	51.00	\$	1,530.00				
Contingency Item if needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	30 30	SY SY	\$	6.60 7.00	\$	198.00 210.00				
Site Preparation and Grading Allowance	1	AL	\$	500.00	\$	500.00				
Basketball Court							\$	37,715.00		
Asphalt Basketball Court Allowance (full court)	1	AL	\$	25,000.00	\$	25,000.00				
Site Amenities (Benches, Trash Receptacles) and associated PCC pads Allowance Metal & Plastic Bench, 6'	4	EA	\$	2,200.00	\$	8,800.00				
	-		\$	1,800.00		1,800.00				
Metal & Plastic Trash Receptacle	1	EA	Ψ							
Metal & Plastic Trash Receptacle Paved (5" PCC) Site Amenity Pads On Grade; and Excavation	1 25	SY	\$	51.00		1,275.00				
Metal & Plastic Trash Receptacle Paved (5" PCC) Site Amenity Pads On Grade; and Excavation Contingency Item if needed: Engineering Fabric	25	SY SY	\$	51.00 6.60	\$	165.00				
Metal & Plastic Trash Receptacle Paved (5" PCC) Site Amenity Pads On Grade; and Excavation		SY	\$	51.00	\$ \$					

LIONS PARK & CITY PARK ENHANCEMENTS (See Boards #7, #12 & #13 for Visual)					Summer 2021
	Est.		Estimated	Estimated	Estimated
Description	Qty.	Unit	Unit Cost	Line Total	Totals
Grading, Site Preparation and Seeding Allowance	1	AL	\$ 6,000.00	\$ 6,000.00	
Creek Corridor Water Quality Enhancements (+/- 1, 140 LF; +/- 1.10 Acres)					\$ 15,000.00
Vegetation Removal (Invasive, Noxious, Weedy & Otherwise Undesirable Vegetation) Allowance	1	AL	\$ 6,000.00	\$ 6,000.00	
Seeding Preparation and Seeding with Native Herbacous Vegetation Allowance	1	AL	\$ 9,000.00	\$ 9,000.00	
Mobilization Allowance	1	AL	\$ 40,800.00	\$ 40,800.00	\$ 40,800.00
				Section Subtotal	\$ 839,594.00
				e 20% Contingency	\$ 167,918.80
			Design & Eng	gineering Allowance	\$ 151,126.92
Lions Park & City P	ark Enhance	ements O	pinion of Total Probab	le Construction Cost*	\$ 1,158,639.72
LIONS PARK & CITY PARI	ENHANC	EMENTS:	Opinion of Total C	Construction Cost*	\$ 1,158,639.72
* Estimate does not include property easements, land acquisitions, site/boundary surveys, or any utility mod	lifications				



Downtown

Overview

Establishing a streetscape that is both functional and aesthetic is critical to have a thriving downtown. The streetscape must be able to effectively accommodate both vehicular and pedestrian traffic while being inviting to both businesses and visitors.

Traditionally, bump-outs and/or re-configuration of on street parking provide the opportunity to incorporate greenery, such as street trees or plantings into a streetscapes to improve the aesthetics of the area while enhancing the users comfort and enjoyment. Due to the city's need to not lose any parking, the design quickly abandoned reconfiguration of the parking and focused on bump-outs. While beautification and adding greenery was cited by numerous user groups as being a priority for downtown, the attendees at the design workshop were overwhelmingly against bump-outs. Even with in field installations on the day of the workshop that represented the proposed bump-outs (showing no loss of parking and sufficient turning radii for semis), the attendees still did not want them. Based on the feedback from the design workshop and other constraints, the incorporation of greenery was abandoned.

The enhancements proposed for the downtown area are illustrated in photo edits 14b and 14c and the pocket park plan and sketches (14d - 14f). The enhancements are intended to aid in improving accessibility, connectivity, safety, way-finding, circulation and the overall aesthetics of the downtown area. These enhancements include:

- ADA-compliant sidewalks and ramps on both sides of the street and ADAcompliant crosswalks - all to encourage pedestrian traffic
- Decorative pavement inlay in the bumper overhang and utility zone of the sidewalk to help define the walking area
- Way-finding signage to help visitors navigate to Wheatland's important destinations
- Reduce driveway width to recommended widths in order to create a defined edge which improves aesthetics, safety and circulation
- Clearly marked parking stall lines to maximize parking spaces
- Clearly marked no parking zones to improve safety and circulation
- Demarcation of crosswalks with pavement marking paint or with decorative pavement in order to define pedestrian crossings
- Designated handicapped stalls placed in each block of the downtown to comply with governmental regulatory requirements
- Decorative lighting with banners to reinforce city branding efforts
- Pocket park in an empty lot located at the southwest end of Main St.

Existing Photo 14a: Photo taken from north side of Main St. & E. Washington intersection looking south along Main St.



Photo edit 14b: This concept illustrates a retrofit, where the existing paving and sidewalks remain



Photo edit 14c: This concept illustrates a more comprehensive approach, where the overhead utility is placed underground and the street pavement is redone.

Jowntown

a thriving downtown. The streetscape must be able to effectively accommodate Establishing a streetscape that is both functional and aesthetic is critical to have both vehicular and pedestrian traffic while being inviting to both businesses and visitors.

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- Designated handicapped stalls placed in each block of the downtown to comply with governmental regulatory requirements
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- The proposed pocket part integrates the railroadidentity into both the proposed ocket park in an empty lot located at the southwest end of Main St.

pergolia and shaded seating (design sybmolizes railroad tracks). Native prairie/ pollinator gardens that are confined between walkways and/or paved mowing





Figure 14e: Sketch of proposed shaded seating

Figure 14d: Sketch of proposed pergola



Concept Plan 14f; Pocket park proposed for empty lat located to the southwest of the intersection of Madison 3s, and 5, Main 3s.

provide year roundinterest. The movable benches and picnic tables in the central lawn area can be easily moved or repositioned to allow the area to serve as an edges create a low maintenance perimeter to help define the boundary and open space for community events and gatherings.

renovation (photo edit 14c), either way, the enhancements can be staged/phased revitalization plan and efforts for attracting businesses and people to Wheatland. streetscape as illustrated in photo edit 14b or can be part of a larger streetscape Implementing the proposed enhancements should be part of the city's overall Improvements proposed for the downtown can be retrofitted into the existing n over a period of time as resources allow.

FLENKER LAND ARCHITECTURE CONSULTANTS, LLC

Interns: TJHillberry, Paola Monllor-Torres and Ethan Morrow lowa State University | Trees Forever | Iowa Department of Transportation LA: Meg Flenker, PLA, ASLA, CPESC, CPSWQ





Pocket Park

The proposed pocket part integrates the railroad identity into both the proposed pergolia and shaded seating (design sybmolizes railroad tracks). Native prairie/pollinator gardens that are confined between walkways and/or paved mowing edges create a low maintenance perimeter to help define the boundary and provide year round interest. The movable benches and picnic tables in the central lawn area can be easily moved or repositioned to allow the area to serve as an open space for community events and gatherings.

Implementing the proposed enhancements should be part of the city's overall revitalization plan and efforts for attracting businesses and people to Wheatland. Improvements proposed for the downtown can be retrofitted into the existing streetscape as illustrated in photo edit 14b or can be part of a larger streetscape renovation (photo edit 14c), either way, the enhancements can be staged/phased in over a period of time as resources allow.

DWNTOWN STREETSCAPE ENHANCEMENTS (See Boards #10 & #14 for Visual)								Summer 2021
December 15 and	Est.	Unit		Estimated		Estimated		Estimated
Description sin St. (Lincoln Hwy south to end of Main St.), E. Jefferson St. (Toronto St. to east side Main St.)	Qty.	Unit	<u> </u>	Unit Cost		Line Total		Totals
eet Overlay			1				\$	431,680.
Asphalt Overlay Complete	11,360	SY	\$	31.40	\$	356,704.00		
Contingency Item if needed: Engineering Fabric	11,360	SY	\$	6.60	\$	74,976.00		
lewalk							\$	306,348
Demolition, Varies, 4' to 10'	3,600	SY	\$	12.00	\$	43,200.00	Щ	
New 5' Wide PCC Sidewalk, with Aggregate Base Course & Excavation	780 780	SY SY	\$ \$	58.00 6.60	\$	45,240.00 5,148.00	<u> </u>	
Contingency Item if needed: Engineering Fabric New 10' Wide PCC Sidewalk, with Aggregate Base Course & Excavation	2,975	SY	\$	58.00	\$	172,550.00	 	
Contingency Item if needed: Engineering Fabric	2,975	SY	\$	6.60	.\$	19,635.00	 	
Site Preparation and Grading Allowance	1	AL	\$	18,775.00	\$	18,775.00		
Finish Grading & Seeding Allowance	1	AL	\$	1,800.00	\$	1,800.00		
corative Site Lighting							\$	711,000
Pedestrian Light Only	56	EA	\$	7,500.00	\$	420,000.00		
Vehicular & Pedestrian Combo	30	EA	\$	9,500.00		285,000.00		
Wheatland Themed Light Banners Allowance	1	AL	\$	6,000.00	\$	6,000.00	<u> </u>	
corative Pavement Crosswalks (Main & Jefferson; Main & Washington; Start @ Lincoln Hwy, & Toronto)							\$	67,85
Demolition of Existing Road Pavement	460	SY	\$	22.50	\$	10,350.00	Щ	
Site Preparation Allowance	1 1/0	AL	\$	2,300.00	\$	2,300.00	Ь—	
Decorative Colored & Stamped PCC Crosswalk Pavement	460	SY	\$	120.00	\$	55,200.00	4	0.00
Iffic Control Crosswalk Payament Marking Allowance	1	ΔI	¢	2 200 00	¢	2 200 00	\$	9,20
Crosswalk Pavement Marking Allowance Regulatory Signage Allowance	1	AL AL	\$	2,200.00 7,000.00	\$	2,200.00 7,000.00	├─	
regulatory signage Allowance sy-Finding Signage	-	ΛL	φ	7,000.00	φ	7,000.00	\$	8,49
Aluminium Signage Panel	87	SF	\$	70.00	\$	6,090.00	Ψ	0,47
Break-A-Way Posts	6	EA	\$	400.00	\$	2,400.00		
eet Furniture			Ψ	100.00	Ψ	2,100.00	\$	12,40
Metal & Plastic Bench	4	EA	\$	2,200.00	\$	8,800.00	7	,
Metal & Plastic Trash Receptacle	2	EA	\$	1,800.00		3,600.00		
obilization Allowance	1	AL	\$	75,000.00	\$	75,000.00	\$	75,00
	•							
						Section Subtotal		
					e 20	% Contingency	\$	324,393
Downtown Streets or	ine Enhance	ments O	ninio	Design & Eng	e 20 ginee	% Contingency ering Allowance	\$ \$	1,621,968 324,393 291,954
Downtown Streetsco	ipe Enhance	ements O	pinio	Design & Eng	e 20 ginee	% Contingency ering Allowance	\$ \$	324,393
Downtown Streetsco	ipe Enhance	ements O	pinio	Design & Eng	e 20 ginee	% Contingency ering Allowance	\$ \$	324,39 291,95
	ipe Enhance	ements O	pinio	Design & Eng	e 20 ginee	% Contingency ering Allowance	\$ \$	324,39, 291,95, 2,238,31 ,
wntown Pocket Park	ipe Enhance	AL	pinior	Design & Eng n of Total Probab	e 20 ginee le Co	% Contingency ering Allowance onstruction Cost* 25,000.00	\$ \$ \$	324,39, 291,95, 2,238,31 ,
wintown Pocket Park ade & Screen Structures Pergola Allowance Shaded Seating Allowance	ipe Enhance			Design & Eng n of Total Probab	e 20 ginee le Co	% Contingency ering Allowance onstruction Cost*	\$ \$ \$	324,39. 291,95. 2,238,31 : 40,000
wintown Pocket Park adde & Screen Structures Pergola Allowance Shaded Seating Allowance e Furniture	1 1	AL AL	\$	Design & Eng n of Total Probab 25,000.00 15,000.00	e 20 ginee le Co	% Contingency ering Allowance onstruction Cost* 25,000.00 15,000.00	\$ \$ \$	324,39 291,95
wintown Pocket Park ade & Screen Structures Pergola Allowance Shaded Seating Allowance • Furniture Metal & Plastic Bench	1 1 3	AL AL EA	\$ \$	Design & Eng n of Total Probab 25,000.00 15,000.00	e 20 ginee le Co	% Contingency ering Allowance construction Cost* 25,000.00 15,000.00	\$ \$ \$	324,39. 291,95. 2,238,31 . 40,00
wintown Pocket Park ade & Screen Structures Pergola Allowance Shaded Seating Allowance • Furniture Metal & Plastic Bench Metal & Plastic Trash Receptacle	1 1 3 1	AL AL EA	\$ \$	Design & Eng n of Total Probab 25,000.00 15,000.00 2,200.00 1,800.00	e 20 ginee le Co	% Contingency ering Allowance pnstruction Cost* 25,000.00 15,000.00 6,600.00 1,800.00	\$ \$ \$	324,39. 291,95. 2,238,31 : 40,000
wintown Pocket Park ade & Screen Structures Pergola Allowance Shaded Seating Allowance • Furniture Metal & Plastic Bench Metal & Plastic Trash Receptacle Plastic Picnic Table	1 1 3	AL AL EA	\$ \$	Design & Eng n of Total Probab 25,000.00 15,000.00	e 20 ginee le Co	% Contingency ering Allowance construction Cost* 25,000.00 15,000.00	\$ \$ \$	324,39 291,95 2,238,31 40,00
wintown Pocket Park ade & Screen Structures Pergola Allowance Shaded Seating Allowance • Furniture Metal & Plastic Trash Receptacle Plastic Picnic Table cordive Lighting	3 1 3	AL AL EA EA EA	\$ \$ \$	Design & Eng n of Total Probab 25,000.00 15,000.00 2,200.00 1,800.00 1,000.00	e 20 ginee le Co	% Contingency paring Allowance postruction Cost* 25,000.00 15,000.00 6,600.00 1,800.00 3,000.00	\$ \$ \$	324,39 291,95 2,238,31 40,00
wintown Pocket Park ade & Screen Structures Pergola Allowance Shaded Seating Allowance e Furniture Metal & Plastic Bench Metal & Plastic Trash Receptacle Plastic Picnic Table corative Lighting Pedestrian Light Only	1 1 3 1	AL AL EA	\$ \$	Design & Eng n of Total Probab 25,000.00 15,000.00 2,200.00 1,800.00	e 20 ginee le Co	% Contingency ering Allowance pnstruction Cost* 25,000.00 15,000.00 6,600.00 1,800.00	\$ \$ \$	324,39 291,95 2,238,31 40,00
wintown Pocket Park ade & Screen Structures Pergola Allowance Shaded Seating Allowance • Furniture Metal & Plastic Bench Metal & Plastic Trash Receptacle Plastic Picnic Table corditive Lighting Pedestrian Light Only destrian Pavement	1 1 3 1 3	AL AL EA EA EA	\$ \$ \$ \$	25,000.00 2,200.00 1,800.00 1,000.00 7,500.00	e 20 ginee le Co \$ \$ \$ \$	% Contingency ering Allowance pnstruction Cost* 25,000.00 15,000.00 6,600.00 1,800.00 3,000.00 45,000.00	\$ \$ \$	324,39 291,95 2,238,31 40,00
wintown Pocket Park ade & Screen Structures Pergola Allowance Shaded Seating Allowance # Furniture Metal & Plastic Bench Metal & Plastic Trash Receptacle Plastic Picnic Table cordive Lighting Pedestrian Light Only destrian Pavement Paved Sidewalk On Grade (5" PCC) and Excavation	1 1 3 1 3 6	AL AL EA EA EA	\$ \$ \$ \$ \$	25,000.00 15,000.00 2,200.00 1,800.00 7,500.00	e 20 ginee le Cc \$ \$ \$ \$ \$	% Contingency paring Allowance posstruction Cost* 25,000.00 15,000.00 6,600.00 1,800.00 3,000.00 45,000.00 13,260.00	\$ \$ \$	324,39 291,95 2,238,31 40,00
wintown Pocket Park ade & Screen Structures Pergola Allowance Shaded Seating Allowance e Furniture Metal & Plastic Bench Metal & Plastic Trash Receptacle Plastic Picnic Table corative Lighting Pedestrian Light Only destrian Pavement Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric	1 1 3 1 3 3 6 260 260 260	AL AL EA EA EA SY SY	\$ \$ \$ \$ \$	25,000.00 25,000.00 15,000.00 1,800.00 7,500.00 51.00 6,60	e 20 ginee le Co \$ \$ \$ \$	% Contingency eing Allowance postruction Cost* 25,000.00 15,000.00 6,600.00 1,800.00 3,000.00 45,000.00 13,260.00 1,716.00	\$ \$ \$	324,39 291,95 2,238,31 40,00
wintown Pocket Park ade & Screen Structures Pergola Allowance Shaded Seating Allowance • Furniture Metal & Plastic Bench Metal & Plastic Trash Receptacle Plastic Picnic Table corative Lighting Pedestrian Light Only destrian Pavement Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	1 1 3 1 3 6	AL AL EA EA EA SY SY SY	\$ \$ \$ \$ \$	25,000.00 15,000.00 1,800.00 7,500.00 51.00 6.60 7.00	e 20 ginee le Cc	% Contingency ering Allowance pnstruction Cost* 25,000.00 15,000.00 1,800.00 3,000.00 45,000.00 1,716.00 1,820.00	\$ \$ \$	324,39 291,95 2,238,31 40,00
wintown Pocket Park ade & Screen Structures Pergola Allowance Shaded Seating Allowance e Furniture Metal & Plastic Bench Metal & Plastic Trash Receptacle Plastic Picnic Table corative Lighting Pedestrian Light Only destrian Pavement Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric	1 1 1 3 1 3 6 260 260 260	AL AL EA EA EA SY SY	\$ \$ \$ \$ \$	25,000.00 25,000.00 15,000.00 1,800.00 7,500.00 51.00 6,60	e 20 ginee le Cc \$ \$ \$ \$ \$	% Contingency eing Allowance postruction Cost* 25,000.00 15,000.00 6,600.00 1,800.00 3,000.00 45,000.00 13,260.00 1,716.00	\$ \$ \$	324,39 291,95 2,238,31 40,00 11,40 45,00
wintown Pocket Park ade & Screen Structures Pergola Allowance Shaded Seating Allowance e Furniture Metal & Plastic Bench Metal & Plastic Trash Receptacle Plastic Picnic Table corative Lighting Pedestrian Light Only destrian Pavement Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ndscaping	1 1 1 3 1 3 6 260 260 260	AL AL EA EA EA SY SY SY	\$ \$ \$ \$ \$	25,000.00 15,000.00 1,800.00 7,500.00 51.00 6.60 7.00	e 20 ginee le Cc \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	% Contingency ering Allowance pnstruction Cost* 25,000.00 15,000.00 1,800.00 3,000.00 45,000.00 1,716.00 1,820.00	\$ \$ \$	324,39 291,95 2,238,31 40,00 11,40 45,00
wintown Pocket Park ade & Screen Structures Pergola Allowance Shaded Seating Allowance Shaded Seating Allowance • Furniture Metal & Plastic Bench Metal & Plastic Trash Receptacle Plastic Picnic Table corative Lighting Pedestrian Light Only destrian Pavement Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance	1 1 1 3 1 3 6 260 260 260	AL AL EA EA EA SY SY AL	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	25,000.00 25,000.00 15,000.00 1,800.00 1,800.00 7,500.00 51.00 6,60 7,00 1,500.00	e 20 ginee le Cc \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	% Contingency eing Allowance postruction Cost* 25,000.00 15,000.00 6,600.00 1,800.00 3,000.00 45,000.00 1,716.00 1,820.00 1,500.00	\$ \$ \$	324,39 291,95 2,238,31 40,00 11,40 45,00
wintown Pocket Park ade & Screen Structures Pergola Allowance Shaded Seating Allowance = Furniture Metal & Plastic Bench Metal & Plastic Trash Receptacle Plastic Picnic Table corative Lighting Pedestrian Light Only destrian Pavement Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance mdscaping Pollinator Garden Allowance, Plugs	1 1 3 1 3 3 6 6 260 260 1 1	AL AL EA EA EA SY SY AL AL	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	25,000,00 25,000,00 15,000,00 1,800,00 1,000,00 7,500,00 51,00 6,60 7,00 1,500,00	e 200 ginee le Cc	% Contingency ening Allowance onstruction Cost* 25,000.00 15,000.00 1,800.00 3,000.00 45,000.00 1,716.00 1,820.00 1,500.00 3,900.00	\$ \$ \$	324,39 291,95 2,238,31 40,00 11,40 45,00
wintown Pocket Park ade & Screen Structures Pergola Allowance Shaded Seating Allowance • Furniture Metal & Plastic Bench Metal & Plastic Trash Receptacle Plastic Picnic Table corative Lighting Pedestrian Light Only destrian Pavement Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item if needed: Engineering Fabric Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ndscaping Pollinator Garden Allowance, Plugs PCC Mowing Edge	1 1 3 3 1 3 3 6 260 260 1 1 1 148	AL AL EA EA EA SY SY AL LF	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	25,000.00 25,000.00 15,000.00 2,200.00 1,800.00 7,500.00 51.00 6,60 7,00 1,500.00 3,900.00 22.00	e 200 ginee le Cc \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	% Contingency ening Allowance onstruction Cost* 25,000.00 15,000.00 1,800.00 3,000.00 45,000.00 1,716.00 1,716.00 1,820.00 1,500.00 3,900.00 3,900.00 3,256.00	\$ \$ \$	324,39 291,95 2,238,31 40,00 11,40 45,00
wintown Pocket Park ade & Screen Structures Pergola Allowance Shaded Seating Allowance • Furniture Metal & Plastic Bench Metal & Plastic Bench Metal & Plastic Trash Receptacle Plastic Picnic Table corative Lighting Pedestrian Light Only destrian Light Only destrian Pavement Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item if needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance indscaping Pollinator Garden Allowance, Plugs PCC Mowing Edge Commercial Allominum Edging, Black Annodized	1 1 1 3 3 1 3 3 4 6 4 6 260 260 260 260 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AL AL EA EA EA SY SY AL AL LF	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	25,000.00 15,000.00 1,800.00 1,000.00 7,500.00 51.00 6.60 7.00 1,500.00 22.00 1,600.00 275.00 9,00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	% Contingency ening Allowance onstruction Cost* 25,000.00 15,000.00 1,800.00 3,000.00 45,000.00 1,716.00 1,820.00 1,500.00 3,256.00 3,256.00 3,392.00 2,475.00 945,00	\$ \$ \$	324,39 291,95 2,238,31 40,00 11,40 45,00
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Cal-Wheat: Warrior Trail

Overview

All user groups from both Calamus and Wheatland identified a trail connection between their communities as one of the highest priorities. While the two towns are located approximately 4 miles apart, they consider themselves one community, Cal-Wheat. Their school district, Cal-Wheat, has the Warrior as their mascot, so it seemed fitting to the residents to name this proposed trail segment the Cal-Wheat Warrior Trail.

The proposed trail offers both historic and environmental appeal. Located nearly adjacent to U.S. Highway 30, the main east-west route across the northern tier of the country, and approximately 10 minutes from U.S. Highway 61, a major north-south route from Minnesota to Louisiana, the trail location is easy to access for both intra-and interstate travelers. The trail is in close proximity to larger urban areas, with less than an hour's drive to the Quad-Cities, lowa City, Maquoketa, Cedar Rapids, DeWitt, and Clinton.

The Lincoln Highway is designated as a heritage byway; along and within the corridor of the proposed trail route are three historic highway bridges and an approximately 100-foot section of the original Lincoln Highway pavement.

The proposed trail corridor has a plethora of landscape and plant community types. Prairie, wetlands, woodlands, swamps, along with the Wapsi River and its backwaters, all lie within or adjacent to the corridor. A trailhead is proposed to be located at the southeast corner of the 709-acre Syracuse Wildlife Managment Area.

Trail Typologies

There are a number of trail typologies. However, just two that are the most plausible for and applicable to the proposed Cal-Wheat Warrior Trail.

Trail typology 1, the separated trail, is most desired by the general population, primarily due to safety. Separated trails can be used by a greater cross-section of people - accomodating families, youth, elderly and mobility challenged. The separated trail can also be multi-use, allowing the use of golf carts and side by sides, along with cycling, walking, and running.

The second typology, shared road (sharrow), is generally the least desirable, especially on rural and/or busy roadways. This type of trail does not promote multi-use pedestrian activites, and families and other recreationalists are hesitant to utilize it, considering it unsafe. Based on resident feedback, a shared road trail is the least desirable option. Residents from both commnities want a separated trail system and a complete ADA-compliant sidewalk system so they do not have to walk and bike on the roads.

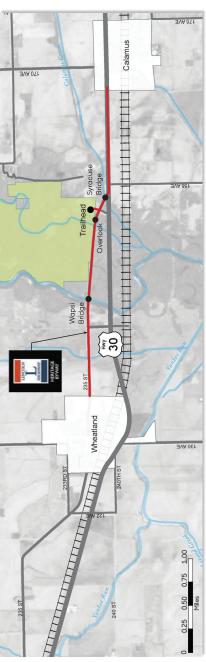


Figure 1b: Proposed logo for the community trail rendores ties to the Lincoln Highway as well as to each individual city - Calamus (Sweet Flag) and Wheatland (Wheat)

Summer **2021** 1

Concept Plan 1.a: General proposed trail route for the Cal-Wheat Warrior Trail that will connect Wheatland and Calamus

Warrior Trail Overview

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Typical section 1c: Trail typology 1 - separated trail

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FLENKER LAND ARCHITECTURE CONSULTANTS, LLC

Interns: TJ Hillberry, Paola Monllor-Torres and Ethan Morrow LA: Meg Flenker, PLA, ASLA, CPESC, CPSWQ

Irail Plan & Identity

Cal-Wheat

lowa State University | Trees Forever | Iowa Department of Transportatior

lowa's Living Roadways. Visioning



Description	Op	oinion of Cost		Comments
Cal-Wheat Trail & Sidewalk Connectivity	\$	2,016,334.56	\$ 979.80	Sharrow
			\$ 1,515,457.58	Separated Trail
			\$ 499,897.18	Pedestrian Sidewalk
Trailhead Enhancements	\$	545,491.92		
Trail Enhancments	\$	264,990.36		
		·	\$ 59,064.00	Trailhead Gateway Enhancements
			\$ 111,642.00	Wapsi Bridge Vehicular Barrier Enh.
			\$ 94,284.36	Corridor Trail Enhancements
Syracuse Rest Area	\$	225,609.30		
Cal-Wheat Trail Concept Enhancement Progr	^	3,052,426.14		

Trailhead

Overview

Representatives from both the Calamus and Wheatland visioning committees met with state, local, and county officials in mid-June 2021 to review the proposed Warrior Trail corridor as well as the area of the Syracuse Wildlife Management Area where the original Lincoln Highway pavement remnant is located. Due to the historical significance of the pavement remnant, combined with the location of this area relative to the proposed trail corridor and the Lincoln Highway Heritage Byway, this area was deemed the most logical location for the Trailhead.

This proposed trailhead not only provides a convenient area to park and access the Warrior Trail, but more importantly, it enhances the area by highlighting the remnant and expanding the native restoration work that the state has done. The addition of site amenities such as a defined and accessible parking lot, ADA-compliant sidewalks, picnic shelter, benches, and interpretive and informational signage will enhance the comfort of the user. Sidewalks and paths meandering through the different plant communities and providing connectivity to the site amenities encourages interaction with the environment and learning at the site.

The photo shown on board 2 is of the original Lincoln Highway remnant as it exists today. It is not marked and the parkingarea goes right up to the edge.

Description silhead Enhancements pholf Parking Lot & Vehicular Drive (from Lincolin Hwy, to Parking Lot) Paved (Asphalt) Parking Lot & Vehicular Drive, includes Agaregate Base Course & Excavation	Est. Qtv.		Estimated	Estimated	Estimated	
phalt Parking Lot & Vehicular Drive (from Lincoln Hwy. to Parking Lot)	Qty. Unit		Unit Cost	Line Total	Totals	
		_				
					\$ 105,703.0	
1 1 0	1,955	SY	\$ 40.00			
Contingency Item if needed: Engineering Fabric	1,955	SY	\$ 6.60	\$ 12,903.00		
Final Grading and Preparation Allowance	1	AL	\$ 4,600.00	\$ 4,600.00		
Pavement Marking Allowance (Stall lines, Arrows, ADA Logo)	1	AL	\$ 6,000.00	\$ 6,000.00		
Regulatory Signage Allowance	1	AL	\$ 4,000.00	\$ 4,000.00		
ay-Finding Signage					\$ 28,500.0	
dentity Signage Allowance	1	AL	\$ 5,000.00	\$ 5,000.00		
dentity Park Signage Landscape Allowance	1	AL	\$ 1,500.00			
nformational Kiosk (Allowance)	i	AL	\$ 16,000.00			
nterpretive Signage Allowance	1	AL	\$ 6,000.00			
dewalk (Varies by location, 6' Wide Minimum)		AL	φ 0,000.00	\$ 0,000.00	\$ 72,191.0	
Paved Sidewalk On Grade (5" PCC) and Excavation	985	SY	\$ 51.00	\$ 50,235.00	φ /2,191.0	
Contingency Item if needed: Engineering Fabric	985	SY	\$ 6.60	\$ 6,501.00		
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	985	SY	\$ 7.00			
Site Preparation and Grading Allowance	1	AL	\$ 2,800.00			
ADA Compliant Detectable Warning Panel	96	SF	\$ 60.00	\$ 5,760.00		
a <mark>irie Path, 5'</mark> (concept 2a, item 16)					\$ 2,320.0	
Crushed Ag-Lime Path and Associated Excavation	180	SY	\$ 11.50			
Site Preparation and Grading Allowance	1	AL	\$ 250.00	\$ 250.00		
pport Facilities					\$ 78,500.0	
Picnic Shelter Allowance	1	AL	\$ 30,000.00	\$ 30,000.00		
Modular ADA Restroom Allowance	1	AL	\$ 40,000.00	\$ 40,000.00		
Drinking Fountain w/Pet Basin Allowance	1	AL	\$ 8,500.00	\$ 8,500.00		
e Amenities					\$ 40,810.0	
Metal Bench, 6' (With Cal-Wheat logo)	5	EA	\$ 2,300.00	\$ 11,500.00		
Metal Trash Receptacle (With Cal-Wheat logo)	4	EA	\$ 1,900.00	\$ 7,600.00		
Decorative Bike Rack Allowance	1	AL	\$ 11,250.00	\$ 11,250.00		
Picnic Tables	6	EA	\$ 1,020.00	\$ 6,120.00		
Picnic Tables, ADA compliant	2	EA	\$ 1,150.00	\$ 2,300.00		
Paved (5" PCC) Site Amenity Pads On Grade; and Excavation	40	SY	\$ 51.00	\$ 2,040.00		
ndscapina				1	\$ 46,645.0	
Formal Native Planting Landscaping (concept 2a, item 11)					, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Demo Existing Gravel Parking Area & Amended Soil, Allowance	1	AL	\$ 7,200.00	\$ 7,200.00		
Native Grasses & Forbs Plant Plugs Allowance	i	AL	\$ 9,500.00			
Decorative Shredded Hardwood Mulch	335	SY	\$ 9.00			
Ground Prep Allowance	1	AL	\$ 1,000.00			
Trees		7 12	Ψ 1,000.00	Ψ 1,000.00		
Understory Native Deciduous Trees	14	EA	\$ 275.00	\$ 3,850,00		
Overstory Native Deciduous Trees	13	EA	\$ 450.00		<u> </u>	
Decorative Shredded Hardwood Mulch	90	SY	\$ 9.00			
Native Planting Identification Display Garden (concept 2a, item 8)	70	J.	γ 7.00	Ψ 010.00		
Amended Soil, Allowance	1	AL	\$ 1,700.00	\$ 1,700.00		
Native Grasses & Forbs Plant Plugs Allowance	 	AL	\$ 2,500.00			
Decorative Shredded Hardwood Mulch	80	SY	\$ 9.00			
Ground Prep, Allowance	1	AL	\$ 500.00			
Identification Labels Allowance	i	AL	\$ 1,000.00		 	
Lawn & Ground Prep	1	AL	\$ 9,000.00		 	
obilization Allowance	1	AL	\$ 20,615.00		\$ 20,615.	
AUDITATION AND WATER	'	ΛL	ψ 20,013.00			
			Concent Ct-	Section Subtotal		
				ge 20% Contingency	\$ 79,056.8	
	ille and Fale.			gineering Allowance		
Tra	ilineaa Ennance	ements O	pinion of lotal Probab	ole Construction Cost*	\$ 545,491.9	
TPAILHEAD ENHAL	NCEMENTS: C	ninion o	of Total Probable	Construction Cost*	\$ 545,491.9	

^{*} Estimate does not include property easements, land acquisitions, site/boundary surveys, or any utility modifications including electric, sanitary, and water.

Summer 2021 2

Ingress/egress drive from Lincoln Highway to Trailhead (shared access for vehicles and bicyclist)

- 6' wide sidewalk connection from Lincoln Highway sider trailhead
 - 6 wide sidewalk to access shelter, historical Lincoln Highway roadway display, native prairie/pollinator garden, and lawn areas; and to meander along existing woodland edge Bike parking using nature-inspired decorative themed bike racks like those proposed for the Syracuse bridge area

- 8' wide sidewalk along display area, along with interpri signage
- Historical display of Lincoh Highway pavement remnant and vingeg Model it, display area protected by posts and cables reflective of ones used along Lincoh Highway (to prevent vehicles from accessing the roadway display) Existing woodman using waxing incolors aggregated
 Maintained away with native tree mix for shade
 Maintained away mark
 Maintained away mark
 Maintained away area
 Marke plant kentification display garden
 Shelter with picinic tables and trash receptacles
 Maintained laway area with native ornamental trees
 Maintained laway area with native prome plants
 Formal landscape area utilizing native profile plants
 Swide sidewalk dong display area, along with interpret signage
 Swide sidewalk dong display area, along with interpret signage
 Maintained layary or Innoch highway pavement remnant wintage Model if display area protected by posts and an
- Existing native prairie/pollinator garden
 - Bur oak tree (one)

2 2

- 5' wide path meandering through prairie/pollir interpretive signage spaced adjacent to path
 - Existing gravel drive 99
- Native oak buffer to include bur oak, white oak, and chinkapin oak
- Angled parking, includes ADA-compliant stalls as required Tree buffer utilizing native understory trees
- way drive to angled parking lot One-988

Trailhead

officials in mid-June 2021 to review the proposed Warrior Representatives from both the Calamus and Wheatland visioning committees met with state, local, and county pavement remnant is located.

remnant and expanding the native restoration work that as a defined and accessible parking lot, ADA-compliant

importantly, it enhances the area by highlighting the area to park and access the Warrior Trail, but more

the state has done. The addition of site amenities such sidewalks, picnic shelter, benches, and interpretive and

This proposed trailhead not only provides a convenient



area goes right up to the edge. The photo to the right is of the remnant as it exists today. It is not marked and the parking original Lincoln Highway







Concept sketch 2:: Wew from bike parking area looking northwestely towards the shelter and information signage; nature-inspired artistic bike racks like those shown on board 4 are recommended.

Sidewalks and paths meandering through the different plant communities and providing connectivity to the site amenities

> remnant, combined with the location of this area relative Heritage Byway, this area was deemed the most logical

Due to the historical significance of the pavement Birds'- eye plan view 2a: Concept plan for trailhead

to the proposed trail corridor and the Lincoln Highway

location for the Trailhead.

encourages interaction with the environment and learning

at the site.

informational signage will enhance the comfort of the user.



Concept sketch 2d View from trail that runs through the prairie and is looking southerly towards the historic Lincoln Highway, the shelter prairie, and klosks

FLENKER LAND ARCHITECTURE CONSULTANTS, LLC

Interns: TJ Hillberry, Paola Monllor-Torres and Ethan Morrow LA: Meg Flenker, PLA, ASLA, CPESC, CPSWQ





Trail Enhancements

Trailhead Gateway

The existing entryway to the historic site of the original Lincoln Highway pavement remnant is unmarked and looks like a private drive, deterring visitors not familiar with the area.

The proposed enhancements are intended to clearly identify the entryway, improve pedestrian accessibility, and continue the style of the historic byway. To accomplish this, the concept illustrates a large, simple overhead gateway sign on columns that repeats the details of the existing Wapsi and overflow bridge rail columns. The Lincoln Highway logo and the Cal-Wheat Warrior Trail logos are both inlaid into the sign columns to continue the brand identity of the road and trail.

Wapsi Bridge Vehicular Barrier Treatment

The visioning committees from both Calamus and Wheatland would like to see the Wapsi bridge kept open to allow for pedestrian and light recreational vehicle (e.g. golf carts, side by sides, ATVs, and snowmobiles). In order to prevent use by passenger vehicles and farm equipment, a barrier is proposed for each end of the Wapsi bridge as illustrated in photo edit 3b on board 3.

The barrier would include a curbed planting area with native plantings installed in a formal design, and large limestone slabs on end and spaced to prevent passage of vehicles. This barrier would be slightly curved instead of straight across. Signage like what is shown above would incorporate the trail logo and list what was allowed on the bridge.

Trail Corridor Enhancements

Trail enhancements contribute to improving user enjoyment and comfort. Photo edit 3f on board 3 illustrates the following proposed enhancements: 1) removal of fallen, dead, dying, invasive and otherwise undesirable vegetation along the trail corridor and replacement with native prairie when applicable; 2) observation overlook with interpretive signage; 3) vehicular pull-off areas with sheltered picnic tables; 4) way-finding signage; 5) well marked (signed) shared-road segments; 6) pedestrian sidewalk when there is not enough room for a separated trail; and 7) maintained area adjacent to trail and walkways. Other enhancements for along the entire trail corridor include branded benches and trash receptacles (Warrior Trail logo inlays) as shown in photo edit 3d.



Existing photo 3a: Photo taken from lincoln Highway Heritage Byway boking northeasterlit yourad the entrance drive to the portion of Syrcuse Wildlife Management Area that is proposed for the trailhead



Existing photo 3c-Photo taken from Lincoln Highway Herique Bluwy bolingwasenly towards what is known as the overflow bridge. The overflow bridge is being replaced and will be opened to well cause access but the Warsi bridge which is located for the west and is closed which is located for the west and is closed as well, will not be openfor vehicular rapific.

The Wapsi bridge will be able to be accessible to pedestrate and right recretional unknies such as golf carts side by sleare and ATVs. Since the view to the Wapsi bridge was obstructed another in let why waps bridge was obstructed another in let was comparable, this photo was used to show what is proposed to finit access on each end of the Vapsi bridge.



Summer **2021**





Photo edit 3f: Proposed enhancements along the Warrior Trail corridor to increase user



Photo edit 3d: Proposed vehicular barrier access treatment for each end of Wapsi bridge

Wapsi Bridge Vehicular Barrier Treatment

The existing entryway to the historic site of the original Lincoln Highway pavement

oto edit 3d: Proposed trailhead entryway

Trailhead Gateway

remnant is unmarked and looks like a private drive, deterring visitors not familiar

with the area.

passenger vehicles and farm equipment, abarrier is proposed for each end of the The visioning committees from both Calamus and Wheatland would like to see the Wapsi bridge kept open to allow for pedestrian and light recreational vehicle (e.g. golf carts, side by sides, ATVs, and snowmobiles). In order to prevent use by Wapsi bridge as illustrated in photo edit 3b above.

of vehicles. This barrier would be slightly curved instead of straight across. Signage a formal design, and large limestone slabs on end and spaced to prevent passage like what is shown above would incorporate the trail logo and list what was allowed The barrier would include a curbed planting area with native plantings installed in on the bridge

both inlaidinto the sign columns to continue the brand identity of the road and trail.

Cal-Wheat

Frail Enhancements

on columns that repeats the details of the existing Wapsi and overflow bridge rail improve pedestrian accessibility, and continue the style of the historic byway. To

accomplish this, the concept illustrates a large, simple overhead gateway sign columns. The Lincoln Highway logo and the Cal-Wheat Warrior Trail logos are

The proposed enhancements are intended to clearly identify the entryway,

Trail Corridor Enhancements

7) maintained area adjacent to trail and walkways. Other enhancements for along edit 3f above illustrates the following proposed enhancements: 1) removal of fallen and replacement with native prairie when applicable; 2) observation overlook with dead, dying, invasive and otherwise undesirable vegetation along the trail corridor 6) pedestrian sidewalk when there is not enough room for a separated trail; and Trail enhancements contribute to improving user enjoyment and comfort. Photo the entire trail corridor include branded benches and trash receptacles (Warrior interpretive signage; 3) vehicular pull-off areas with sheltered picnic tables; 4) way-finding signage; 5) well marked (signed) shared-road segments; Trail logo inlays) as shown in photo edit 3d.

FLENKER LAND ARCHITECTURE CONSULTANTS, LLC

Interns: TJ Hillberry, Paola Monllor-Torres and Ethan Morrow lowa State University | Trees Forever | Iowa Depart

LA: Meg Flenker, PLA, ASLA, CPESC, CPSWQ





								Summer 2021
	Est.		_	stimated		Estimated		Estimated
Description Sharrow Segment (Shared Street); +/- 1.42 Miles	Qty.	Unit		Unit Cost		Line Total	<u> </u>	Totals
Sharrow Segment (Shared Sireer); +/- 1.42 Miles							\$	710.00
Shared rural road with minimal signage - See note 2	1.42	MI	\$	500.00	\$	710.00	Ψ	710.00
Sharea total toda Will Thirlim a signage See here 2	1.42	7411	Ψ	500.00	Ψ	710.00	_	
						ection Subtotal		710.00
						Contingency		142.00
						ing Allowance		127.80
	Sharrow Trail Se	gment Op	oinion	of Total Probabl	e Cor	nstruction Cost*	Ş	979.80
separated Trail (10' Wide with 2' Grass Shoulders); +/- 2.20 Miles	·							
Separated Trail ~ See note 3							\$	1,056,000.0
New paved, 10' side, multi-use trail on independent alignment - See note 4	2.20	MI	\$	480,000.00	\$	1,056,000.00	<u> </u>	,,
Site Amenities (Benches, Trash Receptacles, Bike Racks) and associated PCC pads Allowance							\$	38,491.00
Metal Bench w/trail logo, 6'	8	EA	\$	2,300.00	\$	18,400.00		
Metal Trash Receptacle w/trail log	4	EA	\$	1,900.00	\$	7,600.00		
Decorative Shadow Bike Racks	8	EA	\$	650.00	\$	5,200.00		
Paved (5" PCC) Site Amenity Pads On Grade; and Excavation	85	SY	\$	51.00	\$	4,335.00		
Contingency Item if needed: Engineering Fabric	85	SY	\$	6.60	\$	561.00		
Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	85	SY	\$	7.00	\$	595.00		
Final Grading and Preparation Allowance	1	AL	\$.,	\$	1,800.00		
Mobilization Allowance	1	AL	\$	2,000.00	\$	2,000.00	\$	2,000.0
								1.00/ (01.0
				Concept Stag		Contingency		
					e 20%	ection Subtotal Contingency ing Allowance	\$	1,096,491.00 219,298.20 197,668.38
	Separate	d Trail Op	inion c	Design & Eng	e 20% gineer	Contingency	\$	219,298.20
	Separate	d Trail Op	inion c	Design & Eng	e 20% gineer	Contingency ing Allowance	\$	219,298.20 197,668.38
Pedestrian Sidewalk (6' Wide); +/- 1.2 Miles	Separate	d Trail Op	inion o	Design & Eng	e 20% gineer	Contingency ing Allowance	\$	219,298.2 197,668.3 1,515,457.5
idewalk, 6' Wide ~ See note 5				Design & Eng of Total Probable	e 20% gineer e Con	Contingency ing Allowance struction Cost*	\$	219,298.2 197,668.3 1,515,457.5
Sidewalk, 6' Wide ~ See note 5 Paved Sidewalk On Grade (5" PCC) and Excavation	4,200	SY	\$	Design & Eng of Total Probable 51.00	e 20% gineer e Con	Contingency ing Allowance struction Cost*	\$	219,298.2 197,668.3 1,515,457.5
Sidewalk, 6' Wide - See note 5 Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric	4,200 4,200	SY SY	\$	Design & Engo of Total Probable 51.00 6.60	e 20% gineer e Con	Contingency ing Allowance struction Cost* 214,200.00 27,720.00	\$	219,298.2 197,668.3 1,515,457.5
Sidewalk, 6' Wide - See note 5 Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	4,200	SY SY SY	\$ \$	Design & Engo of Total Probable 51.00 6.60 7.00	e 20% gineen e Con \$ \$	Contingency ing Allowance struction Cost* 214,200.00 27,720.00 29,400.00	\$ \$	219,298.2 197,668.3 1,515,457.5
Sidewalk, 6' Wide - See note 5 Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance	4,200 4,200	SY SY SY AL	\$ \$ \$	Design & Engo of Total Probable 51.00 6.60 7.00 13,600.00	e 20% gineer Con \$ \$ \$	214,200.00 27,720.00 29,400.00 13,600.00	\$ \$	219,298.2 197,668.3 1,515,457.5
Sidewalk, 6' Wide - See note 5 Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel	4,200 4,200 4,200 1	SY SY SY	\$ \$	Design & Engo of Total Probable 51.00 6.60 7.00	e 20% gineer Con \$ \$ \$	Contingency ing Allowance struction Cost* 214,200.00 27,720.00 29,400.00	\$ \$	219,298.2 197,668.3 1,515,457.5 293,320.0
Sidewalk, 6' Wide - See note 5 Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel	4,200 4,200 4,200 1	SY SY SY AL	\$ \$ \$	Design & Engo of Total Probable 51.00 6.60 7.00 13,600.00	e 20% s s s s	214,200.00 27,720.00 29,400.00 13,600.00	\$ \$	219,298.2 197,668.3 1,515,457.5 293,320.0
idewalk, 6' Wide - See note 5 Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel ite Amenities Metal Bench w/trail logo, 6' Metal Trash Receptacle w/trail log	4,200 4,200 4,200 1 140	SY SY SY AL SF EA	\$ \$ \$ \$	51.00 6.60 7.00 13,600.00 60.00 2,300.00 1,900.00	e 20% spineer	214,200.00 27,720.00 29,400.00 8,400.00 18,400.00 7,600.00	\$ \$	219,298.2 197,668.3 1,515,457.5 293,320.0
Sidewalk, 6' Wide - See note 5 Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Site Amenities Metal Bench w/trail logo, 6' Metal Trash Receptacle w/trail log Decorative Shadow Bike Racks	4,200 4,200 4,200 1 1 140 8 4	SY SY SY AL SF EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	51.00 5.60 7.00 13,600.00 2,300.00 1,900.00 650.00	e 20% gineer s Con \$ \$ \$ \$ \$ \$ \$	214.200.00 27,720.00 27,720.00 3,600.00 8,400.00 18,400.00 5,200.00 5,200.00	\$ \$	219,298.2 197,668.3 1,515,457.5 293,320.0
Sidewalk, 6' Wide - See note 5 Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Site Amenities Metal Bench w/trail logo, 6' Metal Trash Receptacle w/trail log Decorative Shadow Bike Racks Paved (5" PCC) Site Amenity Pads On Grade; and Excavation	4,200 4,200 4,200 1 140 8 4 8 8 85	SY SY SY AL SF EA EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	51.00 51.00 6.60 7.00 13,600.00 60.00 2,300.00 1,900.00 650.00 51.00	e 20% spineer	214,200.00 27,720.00 13,600.00 8,400.00 13,600.00 18,400.00 7,600.00 5,200.00 4,335.00	\$ \$	219,298.2 197,668.3 1,515,457.5 293,320.0
Sidewalk 6 Wide - See note 5 Paved Sidewalk On Grade (5"PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Site Amenities Metal Bench w/trail logo, 6' Metal Trash Receptacle w/trail log Decorative Shadow Bike Racks Paved (5" PCC) Site Amenity Pads On Grade; and Excavation Contingency Item If needed: Engineering Fabric	4,200 4,200 4,200 1 140 8 4 8 8 85	SY SY SY AL SF EA EA SY SY	\$ \$ \$ \$ \$ \$ \$	51.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	e 20% gineer s Con \$ \$ \$ \$ \$ \$ \$	Contingency ing Allowance struction Cost* 214,200.00 27,720.00 29,400.00 13,600.00 8,400.00 7,600.00 5,200.00 4,335.00 561,00	\$ \$	219,298.2 197,668.3 1,515,457.5 293,320.0
Sidewalk, 6' Wide - See note 5 Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Site Amenities Metal Bench w/trail logo, 6' Metal Trash Receptacle w/trail log Decorative Shadow Bike Racks Paved (5" PCC) Site Amenity Pads On Grade; and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	4,200 4,200 4,200 1 140 8 8 8 85 85	SY SY SY AL SF EA EA SY SY	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	51.00 51.00 6.60 7.00 13,600.00 2,300.00 1,900.00 550.00 51.00 6.60 7.00	e 20% gineer Con \$ \$ \$ \$ \$ \$ \$ \$ \$	214.200.00 27,720.00 27,720.00 3,600.00 8,400.00 18,400.00 5,200.00 4,335.00 561.00 595.00	\$ \$	219,298.2 197,668.3 1,515,457.5 293,320.0
Sidewalk, 6' Wide - See note 5 Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Site Amenities Metal Bench w/trail logo, 6' Metal Trash Receptacle w/trail log Decorative Shadow Bike Racks Paved (5" PCC) Site Amenity Pads On Grade; and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Find Grading and Preparation Allowance	4,200 4,200 4,200 1 140 8 4 8 8 85	SY SY SY AL SF EA EA EA SY SY SY	\$ \$ \$ \$ \$ \$	51.00 51.00 6.60 7.00 13,600.00 60.00 2,300.00 1,900.00 650.00 51.00 6.60 7.00 1,800.00	e 20% gineen \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	214,200.00 27,720.00 13,600.00 8,400.00 13,600.00 18,400.00 18,400.00 5,200.00 4,335.00 561.00 1,800.00	\$ \$	219,298.2 197,668.3 1,515,457.5 293,320.0
Sidewalk, 6' Wide - See note 5 Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Site Amenities Metal Bench w/trail logo, 6' Metal Trash Receptacle w/trail log Decorative Shadow Bike Racks Paved (5" PCC) Site Amenity Pads On Grade; and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Find Grading and Preparation Allowance	4,200 4,200 4,200 1 140 8 8 8 85 85	SY SY SY AL SF EA EA SY SY	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	51.00 51.00 6.60 7.00 13,600.00 2,300.00 1,900.00 550.00 51.00 6.60 7.00	e 20% gineen \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	214.200.00 27,720.00 27,720.00 3,600.00 8,400.00 18,400.00 5,200.00 4,335.00 561.00 595.00	\$ \$	219,298.2 197,668.3 1,515,457.5 293,320.0
Sidewalk, 6' Wide - See note 5 Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Site Amenities Metal Bench w/trail logo, 6' Metal Trash Receptacle w/trail log Decorative Shadow Bike Racks Paved (5" PCC) Site Amenity Pads On Grade; and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Find Grading and Preparation Allowance	4,200 4,200 4,200 1 140 8 8 8 85 85	SY SY SY AL SF EA EA EA SY SY SY	\$ \$ \$ \$ \$ \$	51.00 51.00 6.60 7.00 13,600.00 60.00 2,300.00 1,900.00 650.00 51.00 6.60 7.00 1,800.00	e 20% spineer con spineer spin	214,200.00 27,720.00 27,400.00 13,600.00 8,400.00 18,400.00 7,600.00 4,335.00 561.00 595.00 1,800.00 16,600.00	\$ \$ \$	219,298.2 197,668.3 1,515,457.5 293,320.0 38,491.0
Sidewalk, 6' Wide - See note 5 Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item if needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Site Amenities Metal Bench w/trail logo, 6' Metal Trash Receptacle w/trail log Decorative Shadow Bike Racks Paved (5" PCC) Site Amenity Pads On Grade; and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation	4,200 4,200 4,200 1 140 8 8 8 85 85	SY SY SY AL SF EA EA EA SY SY SY	\$ \$ \$ \$ \$ \$	51.00 51.00 6.60 7.00 13,600.00 650.00 51.00 6.60 7.00 1,900.00 650.00 1,100.00 66.60 7.00 1,800.00 1,800.00	e 20% specification of the second of the sec	Contingency ing Allowance struction Cost* 214,200.00 27,720.00 29,400.00 13,600.00 8,400.00 5,200.00 4,335.00 5,500.00 1,800.00 1,800.00 1,800.00 1,800.00 1,800.00 1,800.00 1,800.00 1,800.00 1,800.00 1,800.00 1,800.00	\$ \$ \$	219,298.2 197,668.3 1,515,457.5 293,320.0 38,491.0
Sidewalk, 6' Wide - See note 5 Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Site Amenities Metal Bench w/trail logo, 6' Metal Trash Receptacle w/trail log Decorative Shadow Bike Racks Paved (5" PCC) Site Amenity Pads On Grade; and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Find Grading and Preparation Allowance	4,200 4,200 4,200 1 140 8 8 8 85 85	SY SY SY AL SF EA EA EA SY SY SY	\$ \$ \$ \$ \$ \$	51.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	e 20% specification of the second of the sec	214,200.00 27,720.00 27,400.00 13,600.00 8,400.00 18,400.00 7,600.00 4,335.00 561.00 595.00 1,800.00 16,600.00	\$ \$ \$	219,298.2(197,648.3) 1,515,457.5(293,320.0(38,491.0(16,600.0(348,411.0(69,682.2(
Sidewalk, 6' Wide - See note 5 Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Site Amenities Metal Bench w/trail logo, 6' Metal Trash Receptacle w/trail log Decorative Shadow Bike Racks Paved (5" PCC) Site Amenity Pads On Grade; and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Find Grading and Preparation Allowance	4,200 4,200 4,200 1 140 8 4 8 8 85 85 85	SY SY SY AL SF EA EA EA SY SY AL	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	51.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	e 20% s s s s s s s s s s s s s s s s s s s	214,200,00 27,720,00 29,400,00 13,600,00 6,400,00 5,200,00 4,335,00 5,561,00 5,95,00 1,800,00	\$ \$	219,298.20 197,668.38
Sidewalk, 6' Wide - See note 5 Paved Sidewalk On Grade (5" PCC) and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Site Preparation and Grading Allowance ADA Compliant Detectable Warning Panel Site Amenities Metal Bench w/trail logo, 6' Metal Trash Receptacle w/trail log Decorative Shadow Bike Racks Paved (5" PCC) Site Amenity Pads On Grade; and Excavation Contingency Item If needed: Engineering Fabric Contingency Item If needed: Aggregate Base Course, 4" and Associated Excavation Find Grading and Preparation Allowance	4,200 4,200 4,200 1 140 8 4 8 8 85 85 85	SY SY SY AL SF EA EA EA SY SY AL	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	51.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	e 20% s s s s s s s s s s s s s s s s s s s	214,200.00 27,720.00 27,720.00 27,400.00 13,600.00 8,400.00 18,400.00 18,400.00 18,600.00 18,600.00 18,600.00 18,600.00 18,600.00 18,600.00 18,600.00	\$ \$	219,298.2(197,668.3: 1,515,457.5: 293,320.0(38,491.0(348,411.0(69,682.03.9)

^{*} Estimate does not include property easements, land acquisitions, site/boundary surveys, or any utility modifications including electric, sanitary, and water.

- Note 1: Segment is from 142nd Avenue, easterly, to the east end of the historic Lincoln Highway trestle bridge where Syracuse rest area starts

 Note 2: Estimated unit cost is based on the lowa Department of Transportation's most recent lowa Bicycle and Pedestrian Long-Range Plan (dated 2020) which is based on historic costs in lowa

 Note 3: Segments are as follows: 1) Wheatland Manor, easterly, to 142nd Avenue (+/- 0.95 miles); 2) Syracuse rest area egress/ingress drive @ Hwy. 30, easterly, to the west end (parallel to Hwy. 30)

 of the proposed Calamus separated trail segment (+/- 1.25 miles)

 Note 4: Estimated unit cost is based on the lowa Department of Transportation's most recent lowa Bicycle and Pedestrian Long-Range Plan (dated 2020) which is based on historic costs in lowa

 Note 5: Segments are as follows: 1) 142nd Avenue, easterly, to west end of Wapsi bridge (+/- 0.27 mile); 2) east end of Wapsi bridge, easterly, to west end of Overflow bridge, easterly, to start of Trailhead sidewalk (+/- 0.17 mile)

Syracuse Bridge Area

Overview

The Syracuse Bridge area is located along Lincoln Highway in the area between the existing historic trestel bridge and U.S. Highway 30. It is highly visible to motorists traveling along U.S. 30 and is a popular stop for Lincoln Highway enthusiast who tour the Lincoln Highway in their vintage cars. The lure of the area for the enthusiast is the existing trestel bridge which they like to use as a backdrop for photos of their vintae cars. Because of the high visibility and popularity of the trestel bridge, the Cal-Wheat community wanted to create an aesthetic, memorable space for the trail users while still accommodating the tourists who want to get a photo with the trestel bridge.

SYRACUSE BRIDGE AREA ENHANCEMENTS (See Cal-Wheat Board #4 for Visual)								Summer 2021
Description	Est. Estimated Qty. Unit Unit Cost					Estimated Line Total		Estimated Totals
yracuse Rest Area Enhancements	L Giy.	UIIII		Olli Cosi	<u> </u>	Line Iolai	<u> </u>	Totals
gvement Demolition			1				\$	12,375.
Demolition of Existing Pavement	550	SY	\$	22.50	\$	12,375.00	7	,
sphalt Parking Lot & Vehicular Drive					'	,	\$	61,577.0
Paved (Asphalt) Parking Lot & Vehicular Drive, includes Aggregate Base Course & Excavation	995	SY	\$	40.00	\$	39,800,00	7	,
Contingency Item if needed: Engineering Fabric	995	SY	\$	6.60	\$	6,567.00		
Final Grading and Preparation Allowance	1	AL	\$	2,950.00		2,950,00		
Pavement Marking Allowance (Stall Ilnes, Arrows, ADA Logo)	i	AL	\$	2,900.00		2,900.00		
Regulatory Signage Allowance	1	AL	\$	2,500.00		2,500.00		
Concrete (PCC) Curb	160	LF	\$	21.00		3,360,00		
Final Grading and Preparation Allowance	1	AL	\$	3,500.00	\$	3,500.00		
ecorative Pavement (Vintage Photo Staging Area, Bike Rack Areas, Bench Swing Areas)			1	2,00000	7	0,00000	\$	9,350.0
Decorative Colored & Stamped PCC Crosswalk Pavement, Complete	61	SY	\$	120.00	\$	7,320.00	Ψ	7,000.
Final Grading and Preparation Allowance	1	AL	\$	500.00	\$	500.00		
PCC Banding, Complete	180	IF	\$	8.50	\$	1,530.00		
Vay-Finding Signage	.50		Ψ	2.00	Ψ	.,000.00	\$	19,500.0
Identity Signage Allowance	2	AL	\$	5,000.00	\$	10,000.00	Ψ	17,000.
Identity Park Signage Landscape Allowance	1	AL	\$	1,500.00	\$	1,500.00		
Informational Kiosk (Allowance)	1	AL	\$	8,000.00	\$	8,000.00		
idewalk (Varies by location, 6' Wide Minimum)		716	Ψ	0,000.00	Ψ	0,000.00	\$	19,364.0
Paved Sidewalk On Grade (5" PCC) and Excavation	240	SY	\$	51.00	\$	12,240.00	Ψ	17,004.
Contingency Item if needed: Engineering Fabric	240	SY	ψ (t	6.60	Ψ (t	1,584.00		
Contingency Item If needed: Agaregate Base Course, 4" and Associated Excavation	240	SY	\$	7.00	Ψ.	1,680.00		
Site Preparation and Grading Allowance	1	AL	\$	800.00	\$	800.00		
ADA Compliant Detectable Warning Panel	36	SF	\$	60.00	\$	2,160,00		
Decorative Compass Pavement Inlay, Complete Allowance	1	AL	\$	900.00		900.00		
ite Amenities		712	Ψ	700.00	Ψ	700.00	\$	21,550.0
Metal Bench, 6' (With Cal-Wheat logo)	2	EA	\$	2,300.00	\$	4,600.00	Ψ	21,000.
Metal Trash Receptacle (With Cal-Wheat logo)	2	EA	\$	1,900.00		3,800.00		
Decorative Heron Bike Rack	3	FA	\$	2,000.00		6,000.00		
Decorative Shadow Bike Racks	5	EA	\$	650.00		3,250.00		
Bench Swing Allowance (4 Ea.)	1	AL	\$	2,400.00		2,400.00		
Decorative Vehicle Barrier Allowance (3 Ea.)	i	AL	\$	1,500.00		1,500.00		
andscaping		716	Ψ	1,000.00	Ψ	1,000.00	\$	24,144.0
Formal Native Planting Landscaping (Parking Lot Islands) Allowance	1	AL	\$	10,000.00	\$	10,000,00	Ψ	24,144.0
Overstory Native Deciduous Trees	i	FA	\$	425.00	\$	425.00		
Understory Native Deciduous Trees	3	EA	\$	275.00	\$	825.00		
Commercial Aluminum Edging, Black Annodized	70	IF	\$	16.00		1,120,00		
Decorative Shredded Hardwood Mulch	86	SY	\$	9.00	\$	774.00		
Native Praire & Ground Prep, Allowance	1	AL	\$	9,500,00	\$	9,500.00		
Lawn & Ground Prep	i i	AL	\$	1,500.00		1,500.00		
Abbilization Allowance	i	AL	\$	8,000.00		8,000.00	\$	8,000.0
		7.12	Ι Ψ	0,000.00	Ψ	0,000.00	Ψ	0,000.0
						ection Subtotal	\$	163,485.
						Contingency	\$	32,697.
						ring Allowance		29,427.
Syracuse Bridge Res	st Area Enhance	ments O	pinion	of Total Probab	le Co	nstruction Cost*	\$	225,609.

^{*} Estimate does not include property easements, land acquisitions, site/boundary surveys, or any utility modifications including electric, sanitary, and water.

Syracuse Bridge Area

tour the Lincoln Highway in their vintage cars. The lure of the area for the enthusiast the existing historic trestel bridge and U.S. Highway 30. It is highly visible to motorists Cal-Wheat community wanted to create an aesthetic, memorable space for the trail users while still accommodating the tourists who want to get a photo with the is the existing trestel bridge which they like to use as a backdrop for photos of their vintae cars. Because of the high visibility and popularity of the trestel bridge, the The Syracuse Bridge area is located along Lincoln Highway in the area between traveling along U.S. 30 and is a popular stop for Lincoln Highway enthusiast who trestel bridge.

















HE O

Photo edit 4g: Enhancements proposed consider user comfort as well as maintenance



•

Bike parking area with decorative bike racks (heron) on decorative pavement

(4) Oranmental tree
(5) Overstory native tree
(6) Bilke parking area with crocks (heron) on decoration

Bike parking area with decorative bike racks (shadow) on decorative pavement

(B) Multi-use Cal-Wheat Warrior trail shared with one-way auto lane

Q

Maintained bwm
 Maintained bwm
 Managed native prairie
 Managed native prairie
 Descrative vehicle barrier
 Descrative vehicle barrier
 Doescrative vehicle barrier
 Overaced bends swing an decorative powement and decorative powement
 One-way vehicular powement
 One-way vehicula

Photo edit 4tr. This illustration is the same one as aboue but without the trees; it should be noted that the proposed bike racks provide an "art" element when not being used

ed elements at the bridge and the circulation

Concept plan 4a: This illustration shows the location for the propos

FLENKER LAND ARCHITECTURE CONSULTANTS, LLC
LA: Meg Flenker, PLA, ASLA, CPESC, CPSWQ
Interns: TJ Hillberry, Paola Monllor-Torres and Ethan Morrow lowa State University | Trees Forever | Iowa Department of Transportation



Syracuse Bridge Area Cal-Wheat

Implementation Strategies

Overview

The ILR Community Visioning Program is just the beginning of the planning and design process for implementation of projects that will contribute to an enhanced quality of life in Wheatland. Despite the tremendous value in data gathering, analysis, conclusions, and recommendations; the greatest value is providing residents of Wheatland with the opportunity to look at their community from different perspectives and to motivate future positive change. It is the design team's intent to provide the community with a framework for significant future development and enhancement to community resources.

Professional Involvement

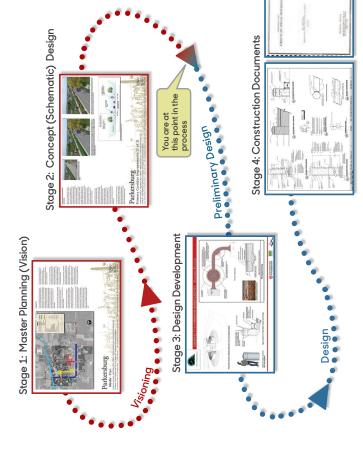
It is Flenker Land Architecture Consultants, LLC (FLAC) desire to continue to serve Wheatland in the role of the city's landscape architect consultant. Our involvement and familiarity with the community and visioning plans as well as our extensive experience with similar types of projects, including their funding, would be an asset to Wheatland.

Expertise from a team of allied professions may be needed to successfully design and implement several of the improvement projects identified. A landscape architecture consultant with registered landscape architects such as FLAC is best suited to lead and manage the design process. This helps ensure that the community's goals and designer's intent are fully integrated into the improvement projects. An architect, civil engineer, electrical engineer, and structural engineer can all be managed with sub-consultant agreements under the landscape architect's prime agreement with the city.

Design Process

The graphics on board 15 illustrate the multi-stage process generally involved to take a project from a "vision" to implementation. This process is referred to as the "Design Process." The specifics of each stage of the process, including the amount of effort and detail required, will be dependent upon a number of factors, including: project size, scope, complexity, project schedule, and funding sources.

Projects that are developed through the Community Visioning Program and presented on the board set and as part of this feasibility report are the beginning of this design process.



Implementation Overview

SUMMER **2021** 15

structural engineer can all be managed with sub-consultant

agreements under the landscape architect's prime

agreement with the city.

The ILR Community Visioning Program is just the beginning projects that will contribute to an enhanced quality of life in of the planning and design process for implementation of

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Visioning Program and presented on these boards are the

beginning of this design process.

Action Plan

Projects that are developed through the Community

to implementation. This process is referred to as the "Design

process generally involved to take a project from a "vision"

The graphics on this board illustrate the multi-stage

projects. An architect, civil engineer, electrical engineer, and improvement projects identified. A landscape architecture Expertise from a team of allied professions may be needed process. This helps ensure that the community's goals and designer's intent are fully integrated into the improvement consultant with registered landscape architects such as FLAC is best suited to lead and manage the design to successfully design and implement several of the

Whatnext? It is recommended that project implementation

be approached using the following basic action plan.

YEAR 1

costs of identified projects, and prioritize the top three

projects for design refinement and implementation.

TASK Schedule monthly steering committee meetings, confirm understanding of scope and estimated

implementation and **identify all applicable and eligibl**e

Determine the most practical project for

grant funding and other resource opportunities.

architect, submit application(s) for eligible and related

grant programs.

assistance from Trees Forever and a landscape Utilizing Community Visioning deliverables and



Stage 5: Construction Administration (Implementation)

Completed Project (Implemented)



an nell lilling.

Construction Administration





TASK Each year reassess top three priority projects based on grant application success and other funding and TASK Upon a successful grant application and securing funding, develop a schedule for project design, biddir and construction, and select and execute a contract cape architect as the lead design Stage 3 of the design pr YEARS 2 - 10 & Beyond with a land



resource opportunities and repeat Task 2-4 for the

FLENKER LAND ARCHITECTURE CONSULTANTS, LLC

LA: Meg Flenker, PLA, ASLA, CPESC, CPSWQ Interns: TJ Hillberry, Paola Monllor-Torres and Ethan Morrow

mplementation

Wheatland

Recommendations

Based on economic return and increased quality of life, proposed projects are recommended to be approached individually, keeping in mind that some may run concurrently, and others may require phasing. Project implementation should be determined based on the priority given it by the community and also with the realization of available funding sources. These funding sources may be through grants and private donations, but may also be in the form of volunteer labor, donated materials, or donated services.

The projects have been developed with a variety of different scales in mind, allowing some to be more easily realized than others. *Many of the larger projects may also be completed in phases as funds become available.* By reviewing the available resources and developing an implementation plan, the community can move forward towards realizing the fruits of its vision.

The primary goal of the community as it moves forward should be planning for successful projects. Successful implementation of a project allows for public support and interest to grow and can quickly lead to availability of additional and more diverse implementation resources – a community with a history of successful projects and involvement is more appealing to funding agencies. Therefore, a smaller project that fits the following criteria is generally recommended as a starting project for the community to undertake:

- 1. Is highly visible
- 2. Has a good chance of receiving a grant or funding assistance
- 3. Can use volunteers
- 4. Is not overly complicated

Keep in mind that It is important to have two goals related to implementation: create success and build on those successes. Initial projects should most likely require the least funding and present the fewest barriers to implementation. Many of the projects proposed in this document and through this process have numerous elements incorporated with one another. These elements have the potential to be separated and completed systematically. This will provide an opportunity to address smaller, more affordable portions of work to build success without substantial fundraising efforts.

Because the information depicted on each board is conceptual in nature, the edits, sketches, and other deliverables are not intended for use as final design/construction documents. They need to be further developed with the help of professionals during a "design phase." During a design phase, concepts will be refined and developed to determine the actual character, size, and essentials that will become part of the final project. The final products from this phase may retain the general concepts depicted on the boards and look very similar to what was conceptualized during the Visioning Program, or, they may look vastly different because of further city input and/or constraints or opportunities unknown during the visioning process.



Action Plan

What happens next? This is a common question that almost every community asks when completing the Community Visioning Program. It is recommended that project implementation be approached using the following basic action plan.

Year 1

<u>Task</u> 1	Task Summary Schedule monthly steering committee meetings, confirm understanding of scope and estimated costs of identified projects, and prioritize the top three projects for design refinement and implementation.
2	Determine the most practical first project for implementation and identify all applicable and eligible grant funding opportunities.
3	Utilizing Community Visioning deliverables and assistance from Trees Forever and a landscape architect, <i>submit</i> application(s) for eligible and related grant programs.
4	Upon a successful grant application and securing funding, develop a schedule for project design, bidding, and construction, and select and execute a contract with a landscape architect as the lead design consultant. Stage 3 of the design process begins.

Year 2 & Subsequent Years (until all Visioning projects are complete)

Each year reassess top three priority projects based on grant application success and *repeat Task 2-4 for the next selected project.*

Community Project Funding Options

There are many creative ways that communities can raise the resources necessary to fund and implement projects. The following list is a compilation of various sources and opportunities for funding the projects conceptualized during the visioning process. This list is not all-inclusive; it is meant to serve as a tool to assist in brainstorming ideas.

Additional funding programs can be found in the Trees Forever Funding Guide.

Funding Opportunities

- Grants
- · Partnerships (private and public)
- · Trusts and endowments
- · Fund-raising and donations
- Memorials
- · Volunteer labor
- · Low-interest loans
- · Implementation of project in phases

Funding Sources

- · Iowa Department of Transportation
- · Iowa Department of Natural Resources
- · Iowa Department of Education
- · Iowa Department of Economic Development
- · Utility companies
- · Trees Forever

Grant Programs

- · Alliant Energy and Trees Forever Branching Out Program
- Federal Surface Transportation Program (STP)
- · Iowa Clean Air Attainment Program (ICAAP)
- · Iowa DOT/DNR Fund Iowa
- · Iowa DOT Iowa's Living Roadways Projects Program
- · lowa DOT Living Roadways Trust Fund Program
- · Iowa DOT Pedestrian Curb Ramp Construction Program
- · Iowa DOT Statewide Transportation Enhancement Funding
- · Iowa DNR Recreation Infrastructure Program
- · Land and Water Conservation Fund
- · National Recreational Trails Program
- · Pheasants Forever
- · Revitalization Assistance for Community Improvement (RACI) Grant Program
- · State Recreational Trails Program
- · Transportation Alternatives Program (TAP)



Professional Planning, Design & Environmental Services

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