Final Report and Feasibility Study Van Meter, Iowa



Program Partners: lowa Department of Transportation Trees Forever lowa State University



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About Bolton & Menk

In 1949, two hard working Midwesterners – John Bolton and Martin Menk – saw people in their surrounding communities with dreams of a bright future, a desire to grow, and a common challenge of aging infrastructure. Their goal: to help communities make progress by listening to what people want, finding the best solutions for their needs, and treating them right. The legacy of John and Martin lives on. We still want to help, we work hard every day, and we always remember what got us here – we're people helping people. Today, Bolton & Menk, Inc. has more than 400 employees including a professional staff of over 150 engineers, planners, landscape architects, and surveyors.

Bolton & Menk specializes in providing public infrastructure solutions. We want to take care of our clients by providing the best services and solutions for them. From advocating for our communities, to designing their dreams, to finding funding; we take pride in our work throughout the Upper Midwest. Because we live here too. We believe in the power of face-to-face meetings, friendly conversations, and a collaborative decision making process to keep your projects on schedule, within budget, and focused on real, workable solutions.

Beyond our technical experience and skills, our service is also based on management and product delivery strategies we have developed over time:

Listen to the client's needs and wants

Learn the characteristics and personality of each client

Communicate proactively with staff, stakeholders, and the public

Develop effective solutions through consensus building

Achieve the client's vision

Foster long-term relationships

We promise every client two things: we'll work hard for you and we'll do a good job. We take a personal interest in the work being done around us. And at the end of the day, we're **Real People** offering **Real Solutions**.



Downtown Streetscape Improvements | Iowa Falls, IA

Program Overview

The city of Van Meter is one of 10 communities selected to participate in the 2019 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 interns, and ISU faculty and staff. The program is sponsored by the Iowa Department of Transportation.

Community Goals

The Van Meter visioning committee identified a number of goals and priority areas during the visioning process:

- Improve pedestrian connectivity and accessibility to local destinations
- Enhance the arrival experience of motorists entering town from the north
- · Improve the downtown streetscape by adding aesthetics and site amenities
- · Create a park space for families and community events

Capturing the Van Meter 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 sidewalk and trail improvements plan, concepts for enhancing the downtown business district, and concepts for a new downtown pocket park. These plans, as well as the inventory information, is illustrated in the following set of presentation boards:

- 01. Program Overview
- 02. Bioregional Context
- 03. Transportation Assets and Barriers Assessment
- 04. Transportation Behaviors and Needs Assessment
- 05. Transportation Inventory and Analysis
- 06. Goal Setting
- 07. Concept Overview
- 08. Assessment & Survey Analysis
- 09. Sidewalk & Trail Improvements
- 10. Entry Corridor Beautification
- 11. Downtown Improvements
- 12a & 12b. Pocket Park Concepts

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 - 06. Goal Setting
- 07. Concept Overview
- 08. Assessment & Survey Analysis 09. Sidewalk & Trail Improvements
- 10. Entry Corridor Beautification

Create a park space for families and community

events in downtown

Improve the downtown streetscape by adding

town from the north

aesthetics and site amenities

11. Downtown Improvements







Program Overview /an Meter

LAs: Josh Shields, PLA; Nate Schlorholtz Intern: Fan Lan Bolton & Menk, Inc.



Bioregional Assessment

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 is arranged to correspond closely with the 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.

Van Meter 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 the vegetation patches shown in the 1875 map still in existence?

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Settlement Patterns

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Van Meter in Context

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W.N.Goodson

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B.W.Payton

Historical Settlement Patterns Van Meter

Bioregional Context
Julia Badenhape, Riley Dunn, Emma Georgeff, Timothy Kerkhove, Clare Kibako,
Alysse Kirkman, Giannis Koutsou, Zoey Mauck, Abigail Schafer



8 SUMMER 2019

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. The vegetation 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."

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.

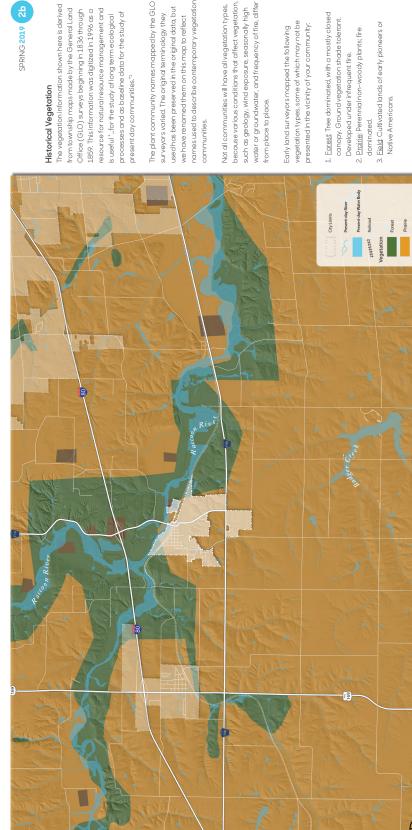
Not all communities will have all vegetation types, because various conditions that affect vegetation, such as geology, wind exposure, seasonally high water or groundwater, and frequency of fire, differ from place to place.

Early land surveyors mapped the following vegetation types, some of which may not be presented in the vicinity of your community:

- 1. <u>Forest</u>: Tree dominated, with a mostly closed canopy. Ground vegetation shade tolerant. Developed under infrequent fire.
- 2. Prairie: Perennial non-woody plants; fire dominated.
- 3. <u>Field</u>: Cultivated lands of early pioneers or Native Americans.

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 Iowa using Government Land Office surveys and a Geographic Information System" (master's thesis, Iowa State University, 1995), 8.





Bioregianal Cantext Julia Badenhape, Riley Dunn, Emma Georgeff, Timothy Kerkhove, Clare Kibako, Alysse Kirkman, Grannis Koutsou, Zoey Mauck, Abigai Schafer





Historical Vegetation Van Meter



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.

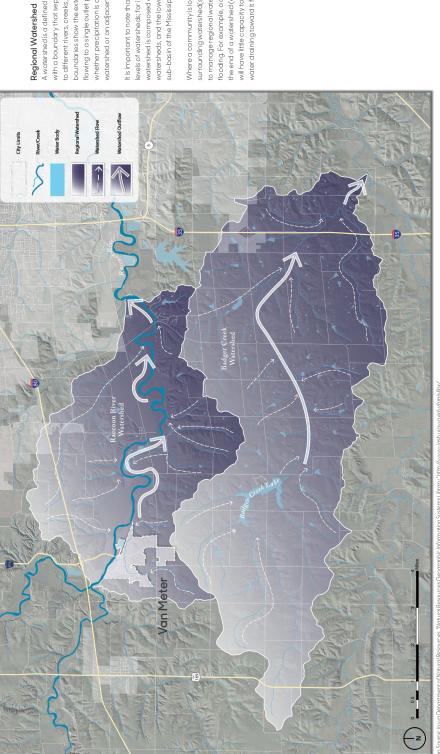
Where a community is located in relation to its surrounding watershed(s) determines its capacity to manage regional watershed issues such as flooding. For example, a community located near the end of a watershed (close to the outlet point) will have little capacity to reduce the amount of water draining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



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Regional Watershed Van Meter

Bioregional ContextJulia Badehhope, Riley Dunn, Emma Georgeff, Timothy Kerkhove, Clare Kibako, Alysse Kirkman, Giannis Koutsou, Zoey Mauck, Abigail Schafer





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.

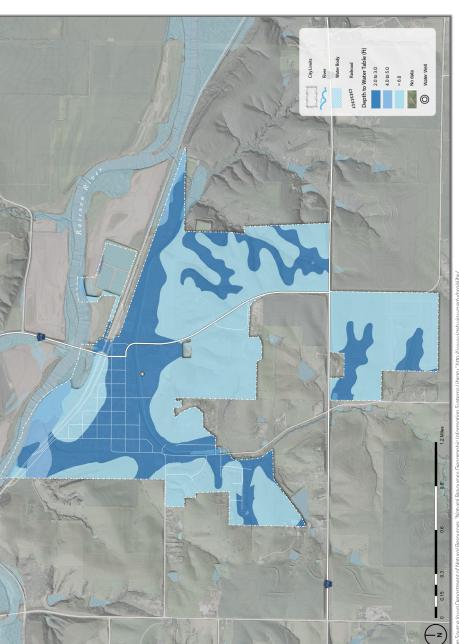
The map shows how close to the surface groundwater can be. Pavement and foundations are affected by groundwater near the surface. Freezing and thawing and upward pressure of rising groundwater can cause cracks or "frost boils" in pavement. Foundations can be wet and require "dewatering," which can be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

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



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Van Meter

Depth to Water Table

Bioregional Context Julia Badenhope, Riley Dunn, Emma Georgeff, Timothy Kerkhove, Clare Kiboko, Alysse Kirkman, Giannis Koutsou, Zoey Mauck, Abigail Schafer





Elevation and Flow

The map to the right displays topographic differences in elevation using a combination of contour lines and the color gradient depicted in the legend. The high points 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 also shows your community's flood risk as defined by the Federal Emergency Management Agency (FEMA) Flood Map Service Center. This map shows the two most important flood zones if they are 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.





The map to the left displays topographic differences in elevation using a combination of contour lines and the color gradient depicted in the legend. The high points and low points have also been located.

Elevation and Flow

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+HP 1,012'

Van Meter

Elevation and Flow

+HP 1,029'

Bioregional Context Julia Badenhope, Riley Dunn, Emma Georgeff, Timothy Kerkhove, Clare Kiboko, Alysse Kirkman, Giannis Koutsou, Zoey Mauck, Abigai Schafer



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.

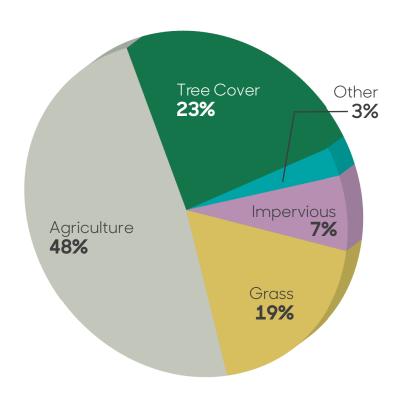
What do you observe about the dominant land cover types in your community? Where is the tree canopy most concentrated?

Where is the tree canopy most concentrated?

Compare the amount of impervious surfaces (e.g., parking lots, roads, buildings) 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



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Present-day Land Cover

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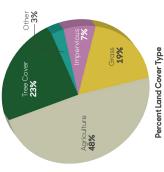
> Water Body

City Limits River

Land Cover

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

AGRICULTURE Cut Hay Grass 1 Grass 2



Deciduous Short Deciduous Mediun Deciduous Tall

ARD SURFACE

Present-day Land Cover Van Meter

Bioregional ContextJulia Badenhope, Riley Dum, Emma Georgeff, Timothy Kerkhove, Clare Kibako, Alysse Kirkman, Gionnis Koutsou, Zoey Mauck, Abigail Schafer





Present-day Vegetation

This map shows the present-day vegetation in an aerial image, indicating where trees, shrubs, and other plants create shade, line streets, buffer edges, and provide other services.

Notice how much the vegetation has been altered since government land office surveyors mapped the historic vegetation. People alter vegetation to produce crops and provide shelter, and for other amenities.

Also notice how the community and its vegetation have changed since the Andrea's Atlas was drawn. Development typically removes vegetation where infrastructure is built, and then re-introduces vegetation for its functional and aesthetic value.



SPRING 2019 2g

Present-day Vegetation

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Van Meter

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Bioregional ContextJulia Badenhope, Riley Dunn, Emma Georgeff, Timothy Kerkhove, Clare Kiboko, Alysse Kirkman, Glannis Koutsou, Zoey Mauck, Abigail Schafer



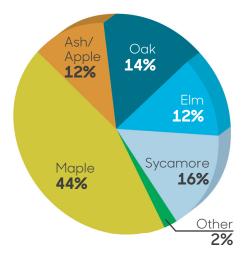


Urban Forest

The map depicts city-owned trees that have been surveyed by the lowa Department of Natural Resources (Iowa DNR).¹ The trees are divided into three categories: healthy trees, hazard trees, and ash trees.

A yellow triangle indicates a "hazard" tree. The hazard designation reflects tree condition using the lowa DNR's priority rating. Hazard trees are "dangerous, dead, or dying, and no amount of maintenance will increase longevity or safety;" or are infected by "insects, pathogens, or parasites."

A purple cross indicates an "ash" tree. They are under imminent threat from the Emerald Ash Borer (EAB), an invasive beetle that disrupts circulation in the tree resulting in the loss of tens of millions of ash trees in North America.² EAB was first discovered in lowa in 2010 and was confirmed in 65 lowa counties as of 2018.³



The graphic shows how many of the city's trees are of the same species. There is a strong possibility that 12% (ash trees) of Van Meter's city-owned trees will die once EAB is carried to the area. With proper planning and management, the city can improve its canopy by planting suitable trees that can gradually replace hazard trees. Improving species diversity will create a more resilient urban forest.

¹ lowa Department of Natural Resources Community Tree Inventories, http://www.iowadnr.gov/Conservation/Forestry/Urban-Forestry/Community-Tree-Inventories.

² EAB is a significant threat to our urban, suburban, and rural forests because it kills stressed and healthy ash trees. EAB is so aggressive that ash trees may die within two or three years after they become infested. Ash trees are as important ecologically as they are economically in the forests of the eastern United States. Emerald Ash Borer the Green Menace, USDA Program Aid No. 1769, 2008, https://www.aphis.usda.gov publications/plant_health/content/printable_version/EAB-GreenMenace-reprint June09.pdf.

^{3 &}quot;lowa Tree Pests website," Entomology and Plant Science Bureau of the lowa Department of Agriculture and Land Stewardship (IDALS), last updated September 12, 2018, http://www.iowatreepests.com/eab_home.html.



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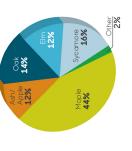
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+ Ash Tree (susceptible to EAB*)

▲ Hazard Tree** Healthy Tree Department of Natural Resources Community. Tree Inventories, http:// Inr.gov/Conservation/Forestry/Urban-Forestry/Community-Tree-



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Jrban Forest Van Meter

Bioregional Context

Julia Badanhope, Riley Dunn, Emma Georgeff, Timothy Kerkhove, Clare Kiboko, Alysse Kirkman, Grannis Koutsou, Zoey Mauck, Abigail Schafer



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 Van Meter, 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 Van Meter's transportation system works, we use focused, small-group conversations, mapping, and photos of the best and worst to understand local transportation.

Different Users = Different Needs

To capture insights about transportation from a variety of perspectives, we invited Van Meter residents with different transportation needs to participate in focus groups. A total of 61 residents attended Van Meter's workshop. Participants were separated into five user groups and the Van Meter steering committee.





Impaired

Older Adults





Steering Committee

(5 participants): 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.

(4 participants): 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.

(10 participants): 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.

(11 participants): 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.

(20 participants): 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.

(11 participants): 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.



amilies, actives, and youth appreciate access to nature on local trails



arning strips help the mobility—and sight— Curb cuts and tactile u impaired cross safely.



e nearby accessible ated by residents.



Jverview



Some bridges are difficult to cross because there is no extra space for cyclists or pedestrians.





requent trains disrupt crossing in town; lack of clearly identified and w naintained crossing areas creates anxiety for cyclists and pedestrians

What Factors Affect Transportation in Van Meter?

SPRING 2019 3a

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Julia Badenhope, Sandra Oberbroeckling, Chad Schultz, Giannis Koutsou, Transportation Assets and Barriers Analysis

lowa State University | Trees Forever | Iowa Department of Transp Parmiss Sazgar, Alisa Courey, Paola Monllor-Torres





What People Said

"It's terrible. You'll find everybody running [on the edge of the highway] where it is the worst place you could possibly run. You'll be running out here on Highway 90 where they're going 55 miles an hour... it's a death trap." "If I try to go on a three-mile run, Van Meter is great. Anything over three miles is not happening."

> "Every time I want to do a [long] bike or a run, I have to load up and go somewhere."

"[I like the] trail that is along the river... It is just nice being along the river like that."

"It would be so nice if we could hook up to the bike trail system."

"They did try to make a trail from the school...but it's overrun with weeds and gravel and I don't know. It almost doesn't even feel safe, but if they could make it nicer, that could be an area [to improve]."

Actives

"I enjoy the wildlife. I've been watching the birds because there's more coming back now." "[The bike path] is too close to the road and if anybody is looking at their cell phone, —boom — you're gone. It just scares me."

"I would like to see another crossing somewhere along Wilson Street [into Van Meter Recreation Complex]."

"I would like a walking path that connects Van Meter to Crestview."

> "I prefer to ride my bike around town for transportation if I can."



Older Adults

"I feel comfortable in our town. I feel like I can walk. I can talk. I can ride my bike. I can do things comfortably."

"If you're not mobility impaired, you're fine and you can navigate it, but if you have anything that is impaired, [Van Meter] is not accessible." "I have witnessed a lot of elderly and older folks who have wheelchairs or have walkers having a very difficult time navigating in [the ball park]."

"The city hasn't upgraded the curbing so the streets just integrate right into the ditches, so even where there are no sidewalks, there's also no way for a blind person to cane where they're at. They can't find the side of the road, so they might be in the middle of the road and not even know it."



Mobility Impaired "It is hard to walk in the gravel, so if we were to cement that it would be much easier for [mobility impaired] people."

"They've started doing accessible sidewalks in the newer area."



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 walk, bike, and run regularly. They feel constrained by a lack of longer routes, connections to the river and other trail networks. They also want everyone to be able to access local amenities and services. They appreciate the hills as a challenge and for their beauty.

Mobility-impaired individuals often rely on walkers, motorized scooters and wheelchairs. Smooth, firm wide walkways are important. This group would like connected accessible routes, ADA doorways, curbs and ramps, and proper lighting. They can't enjoy community activities and services without these features.

Older adults enjoy living in a town with family nearby. Their main modes of transportation are driving and walking but they would bike or walk more if they had better connected, well-lit sidewalk and trail systems, with nearby parking. They love the natural beauty of Van Meter.

Youth enjoy destinations in town that include the parks and recreation fields. Their main modes of transportation include walking, biking, and driving. They would like better connections to local parks and the river. They like seeing wildlife and like the "woodsy" quality of Van Meter.

Parents drive, ride bikes, and walk. They are concerned about their children's safety as they travel throughout town. They identified paths close to Richland, the parking and traffic at events, and crossing the railroad track as serious problems. They would like to see safer routes to their kids' destinations.

Steering committee members walk, drive, and bike. They would like a connected walk/trail system, supportive amenities for all residents, and a unified landscape plan for the town. They want to facilitate green space and business development to provide destinations people will enjoy.

36
PRING 2019

Seeing committee members valk, drive and bien They vool dil se a connected walk (rail system supportive amenities for all esidems, and a united lankscape plan for the town. They want to localitate green space and business development to provide destinations people will enjoy. Mobility-impaired individuals often rely, wildlers, manorized scoopers and wheel smooth firm wide wildkways are import. This group would like connected access routes, ADA doorways, curbs and ramping proper lighting. They commo cavivides ond services without these fee Improved Sidewalk Surfaces Most Desired Improvements Add Supportive Features • Extend Trail System Poor Lighting Lack of Parking; Impacts on Drainage Undesirable Qualities and Features Lack of Trail and Sidewalk Connections Benches, Shade, and Gathering Places Desirable Qualities and Features • Destinations and Activities **User Types** Mobility Impoired The standard Steering Committee Actives Adults Youth Youth Perents

Transportation Assets and BarriersJulia Badenhope, Sandra Oberbroeckling, Chad Schultz, Giannis Koutsou,
Parmiss Sazgar, Alisa Courey, and Paola Monlor-Torres

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VanMeter Emerging Themes



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 Iowa 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 and behaviors, needs and desires of Van Meter residents. Surveys were mailed to 300 randomly selected residents living in Van Meter 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 249. A total of 123 people returned surveys, for a response rate of 49.4%. (A response rate of 20% is considered valid.)

We asked survey recipients what routes they used most often for going to work, walking, and biking. We also asked whether or not residents would like a recreation trail and where they think it should be. 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 Van Meter. This series of boards summarizes the results of the survey as follows:

- Willingness to Help
- Enhancement Priorities
- Commuting Routes
- Walking Routes
- Biking Routes
- Desired Trail Routes

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How Is It Done?

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What Did We Find Out?

We asked survey recipients what routes they use most often for going to work and walking. In addition, contribute their time or their financial resources to making enhancements to Van Meter. This series of 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 we asked what qualities and features are important to cyclists and trail users. We also discovered boards summarizes the results of the survey as follows:

- Willingness to Help
 - Enhancement Priorities
- Commuting Routes
- Desired Qualities

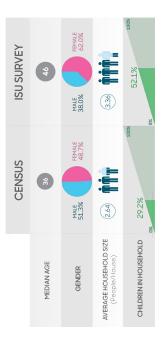
- WalkingRoutes

Van Meter Overview

How Did We Do?

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The demographics of the respondents are somewhat different from those obtained from the 2017 American Community Survey Five-Year Estimate, For example, the survey respondents median age of 46 is significantly older than the 2017 estimated average age for Van Meter residents of 36. In terms of gender, the percentage of female survey respondents is much higher than that of the census. Average household size and number of children in the household among survey respondents are significantly higher than the 2017 census estimates.



How Do Van Meter Residents Travel

Most survey respondents drive to important destinations such as the convenience store, the post office, school, and church (91.7%). More than 26% car pool or ride with someone else. Some people indicated that they walk or bike, but the primary mode of transportation in Van Meter is by vehicle.



Transportation Behavior and Needs Survey

Julia Badenhope, Sandra Oberbroeckling lowa State University | Trees Forever | Iowa De

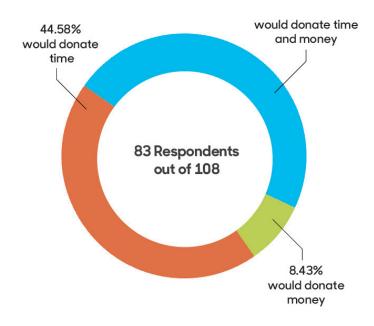


Willingness to Help

Most survey participants who answered this question are willing to help financially and contribute their time to community improvements (46.99%), while 44.58% would contribute their time. More than 8% of respondents indicated that they would be willing to contribute financially.

Compared to other small towns in lowa, Van Meter residents are more 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. Van Meter exceeds this average by 33%.

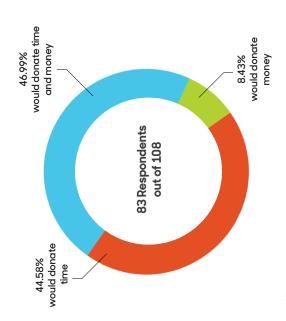
In 2014, the most common reason residents in small-town lowa said they didn't become involved in community projects is that no one asked them (34%). Twenty-eight percent on average said that they don't have time, which is significantly lower than the 2004 average of 59%. Sixteen percent indicated that 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).

ARE PEOPLE WILLING TO HELP?

More than 76% said YES!



Willingness to implement change

contribute their time to community improvements (46,99%), while 44.58% would contribute their time. More than 8% of respondents indicated that they would be willing to contribute financially, Compared to other small towns in Iowa, Van Meter residents are more willing to become Most survey participants who answered this question are willing to help financially and

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Van Meter

Willingness to Help

WHAT DID PEOPLE SAY?

SPRING **2019 4b**

Survey Participants Said...



"Van Meter is beautiful and would benefit from a nice bike and hiking trail."

"I think our city has the opportunity for good sidewalks and better lighting. It just needs to be funded."



sidewalks that connect downtown across F90, where other friends live. We are dedicated to "...it is so important [that] this town gets the enhancements of our sidewalks."

HOW DO YOU GET PEOPLE TO HELP?

Ask, Show, and Advertise Opportunities

59%. Sixteen percent indicated that they didn't know how to become involved, and 7% said that no community project needed volunteers.¹ These results indicate that the best ways to get people involved in community projects is to simply ask, along with advertising opportunities asked them (34%). Twenty-eight percent on average said that they don't have time, which is significantly lower than the 2004 average of In 2014, the most common reason residents in small-town lowa said they didn't become involved in community projects is that no one nrough traditional and social media outlets.

Transportation Behavior and Needs Survey Julia Badenhope and Sandra Oberbroeckling





Priorities

Importance of transportation enhancement by type (105 responses)

On a scale of 1 to 5, with 5 being the most important, participants in Van Meter ranked creating more opportunities for physical activities as most important, with a mean value of 4.32. Other types of transportation enhancements that address pedestrian mobility, health, and safety are also considered important, such as creating better pedestrian connections (4.09), safer routes to school (4.00), and better lighting for night use (3.92). In terms of quality of the built environment, survey respondents consider better neighborhood streetscapes as most important (3.59), followed by enhanced seasonal beauty (3.54) and an enhanced downtown streetscape (3.50). These findings are consistent with the views expressed by focus group participants during the Transportation Assets and Barriers workshop held in March 2019.

What Did They Say?

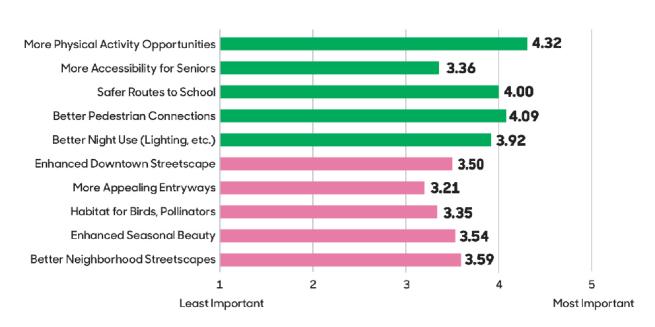
"[1] would love to see running trails. I would feel safe running if we had trails on F90."

"[I] would love to see a trail system develop, both walking and biking."

"[We] need sidewalks down Richland to the school. The only safe walk to school is from north and west. If you live south or east you are out of luck."

"I believe adding a school trail might help some of the kids."





SAY?

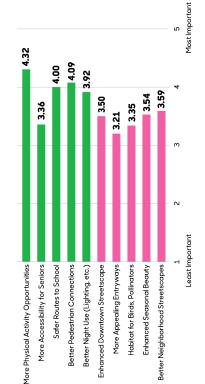
Survey Participants Said...



WHAT TYPES OF ENHANCEMENTS ARE IMPORTANT?

Mobility, Safety, and Health!





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Commuting Routes

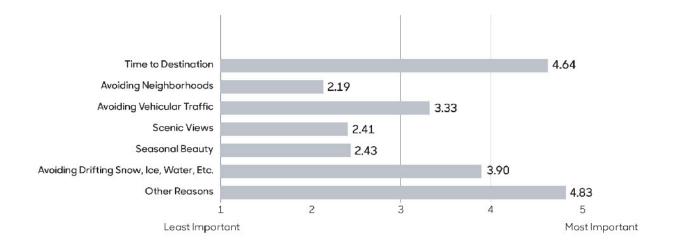
How They Get There?

This map shows the commuting routes identified by 89 survey respondents. The frequency that the routes are used is depicted by their width, with most frequently used routes being the thickest. The primary commuting corridor in Van Meter is County Road R16 to the north from East Street, presumably because many commuters use I-80 to get to the Des Moines Metro Area. Some people also travel south on R16 to connect to County Road F90 to go east or west. As the only access to the Crestview development, R16 south of F90 is heavily traveled, as is Hazel Street in the west part of town.

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 Durant participants, other reasons such as the quality of the road, safe neighborhoods, coordinating multiple stops, and avoiding stoplights are the most important factors, with a mean value of 4.83, followed by time to destination (4.64). Avoiding weather-related issues such as snow and ice is also considered important, with a mean value of 3.90. Scenic views, seasonal beauty, and avoiding neighborhoods are not critical factors in determining commuting routes.





How They Get There

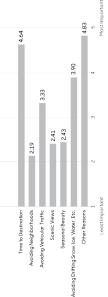
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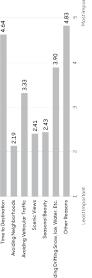
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Commuting Routes Van Meter

Map Source: Iowa Department of Natural Resources, "Natural Resources Geographic Information Systems Library," http://www.igsb.wiowa.edu/nrgislibx/

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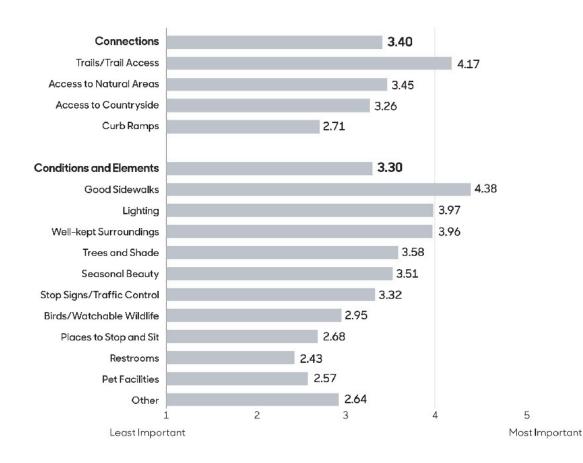
Walking Routes

Where They Walk

This map shows the walking routes identified by 66 survey respondents. The frequency that the routes are used is depicted by their width, with most frequently used routes being the thickest. Survey respondents indicated that they walk primarily along the streets of Van Meter, with the most frequently walked streets in town being Elm and Hazel Streets. In addition, some people walk at the Van Meter Recreation Complex, Trindle Park, and Johnson park. People also walk around the track at the football field and around the ball fields.

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 Van Meter participants, connections are of somewhat more important than conditions/elements, with mean values of 3.40 and 3.30, respectively. In terms of connections, access to trails is most important with a mean value of 4.17. Good sidewalks (4.38) are the most important element to walkers, followed by well-kept surroundings (3.96) and lighting (3.97). Other significant factors include trees and shade (3.58) and seasonal beauty (3.51).





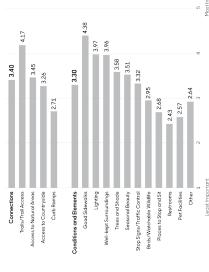
Where They Walk

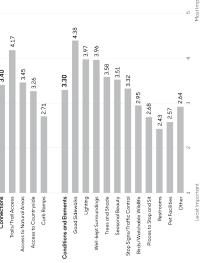
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Walking Routes Van Meter

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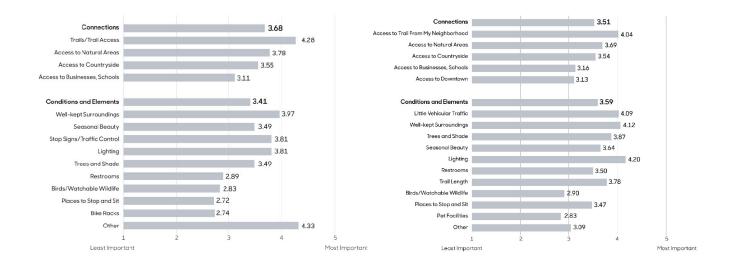
Desired Features

Desired Bike Route Features

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 Van Meter participants, connections are of somewhat more important than conditions/elements, with mean values of 3.68 and 3.41, respectively. In terms of connections, access to trails is most important with a mean value of 4.28. Other factors, such as paved surfaces rather than gravel, are the most important element to cyclists, with a mean value of 4.33. Well-kept surroundings (3.97), stop signs and traffic control (3.81), and lighting (3.81) are also important features.

Desired Trail Features

On a scale of 1 to 5, with 5 being the most important, survey participants ranked the characteristics and features that made their trail experience better. Like the bike route features, they are categorized as either "connections" or "conditions and elements." Conditions/elements are slightly more important to Van Meter trail users than connections, with mean values of 3.59 and 3.51, respectively. In terms of conditions/elements, lighting (4.20) is the most important element, followed by well-kept surroundings (4.12), and little vehicular traffic (4.09). In terms of connections, access to the trail from their neighborhoods is considered most important, with a mean value of 4.04.



Desired Bike Route Features

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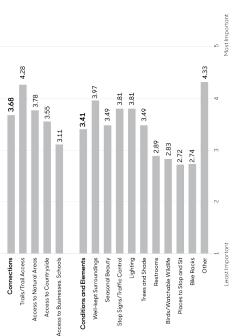
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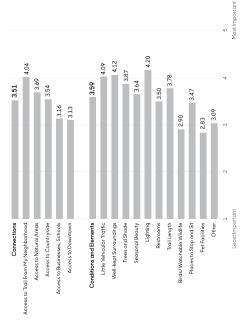


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Van Meter Desired Features

Transportation Behavior and Needs Survey Julia Badenhope and Sandra Oberbroeckling

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Transportation Inventory and Analysis

Knowledge of the transportation systems in an around a community is critical for sustainable transportation enhancement planning. Van Meter's transportation system includes paved and unpaved roadways, sidewalks, pedestrian and bike trails, waterways and active railroad lines.

Van Meter is bounded on the north by the Raccoon River, which serves as a major means of recreation within the community. Additionally, the city is bisected by County Highways R16 and F90, which intersect along the southern boundary.

The design team coordinated with lowa Department of Transportation (DOT) staff and local public works and maintenance personnel, and followed up with the Dallas County Engineer to identify existing, past, and future transportation system improvements. These included maintenance and other transportation-related constraints and opportunities in and around Van Meter.

Several transportation-related assets and opportunities include future roadway realignments that will provide opportunities for improved pedestrian and vehicular movement, transportation corridor enhancement along major community roadways, and improved recreational/pedestrian infrastructure throughout the community that will provide access to civic, cultural, and natural destinations.

Items of concern related to transportation systems include incomplete, narrow, and crumbling sidewalks and trails; unsafe intersections; and poor connections to community destinations, especially over county highways and the railroad. Other issues include high vehicular speed along County Highways F90 and R16, poor visibility, and overlapping vehicular, bike, and pedestrian traffic near the intersection of Elm St. and R16 to the Van Meter school entry/exit.

The design team used this information to explore opportunities for improving connectivity, safety, and cohesiveness throughout Van Meter.



Transportation Mapping

Knowledge of the transportation systems in an and unpaved roadways, sidewalks, pedestrian around a community is critical for sustainable Meter's transportation system includes paved and bike trails, waterways and active railroad transportation enhancement planning. Van

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recreational/pedestrian infrastructure

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no route to get anywl



Steering



would say a commor



somewhere along Wilson Street [into Van Meter Recreation Complex];"

Intern: Fan Lan

Iowa State University | Trees Forever

Iransportation Inventory

Van Meter

LAs: Josh Shields, PLA; Nate Schlorholtz Bolton & Menk, Inc.



Goal Setting

The Van Meter steering committee presented the design team with observations from the TAB assessment, survey, and bioregional inventories. The committee then identified goals and values based on this assessment information. Each committee member was asked to provide reasoning on why it would be important to work on a project with the intent of achieving the broad-based goals, while also identifying potential improvements addressing areas of concern. The landscape architects organized these programming themes using the goals identified by the steering committee, with greater importance given to goals highlighted in discussions and/or repeated by individuals during the goal-setting meeting.

Sidewalk/Trail Plan

- · Create pedestrian routes that connect Crestview to downtown and the school
- · Connect pedestrians to major destinations in town
- · Increase accessibility to Van Meter Recreation Complex
- · Provide more recreational opportunities by extending trails and having loops

Entry Corridor Beautification

- Improve entry experience for residents and visitors
- · Create a gateway and transition space as users approach downtown
- · Improve visibility at night with additional lighting

Downtown Improvements

- · Improve walkability downtown
- · Add pedestrian amenities (benches, litter receptacles, bike racks)
- Utilize bump-outs to gain space for pedestrian amenities and decrease crossing distances
- · Improve lighting to increase safety and visibility for evening/nighttime use
- · Create a downtown aesthetic by adding street trees/planters/pavers/historic lighting
- · Design streetscape to allow for growth and redevelopment

Pocket Park Concept

- · Provide a gathering space near downtown
- · Provide additional family-oriented amenities (splash pad, playground)
- Add parking for park users

SUMMER **2019** 6

Goal Setting Process

potential improvements addressing areas committee, with greater importance given to goals highlighted in discussions and/or repeated by individuals during the broad-based goals, while also identifying using the goals identified by the steering was asked to provide reasoning on why it would be important to work on a project with the intent of achieving the information. Each committee member organized these programming themes observations from the TAB assessment, of concern. The landscape architects and values based on this assessment The committee then identified goals The Van Meter steering committee survey, and bioregional inventories. presented the design team with goal-setting meeting.

Community	Broad-Based	Why Change Amything?	What Eventhy and Mhores
Values/Themes	Outcomes/Goals		
Accessibility + Connectivity	Connections to parks + other amenities Increased accessibility Improved sidewalk connections	Enhance recreational opportunities Encourage walking/biking Increase safety downtown	Make Van Meter Recreational Complex accessible by trail Provide pedestrian route from Crestview Development to school campus
Main Street Improvements	· Increased walkability · More desirable appearance	Attract people downtown Make downtown a destination Showcase community pride	Improve quality and increase width of sidewalks Provides site furnishings Enhance corridor with trees/plantings Improve lighting to increase safety and mobility at night.
Beautification	· Enhance entrances to town · Mare inviting downtown	. More 'curb appeal' for visitors . Showcase community pride	Enhance northern entry corridor with trees/plantings Enhance downtown with trees/plantings Provide entry signage on western and eastern entrances
Community Amenities/Destinations	Provide more community destinations Create spaces for community gathering	Provide space for community gathering Encourage community pride/ownership	Utilize open space on southwest corner of Grant St. and West St. for community events
Intersection Safety	. Safe pedestrian arossings . Safe routes to school . Safe crossing at raliroad	· Improve access amenities	· Improve pedestrian crossing at the railroad and R16 intersection · Alleviate congestion at the school entrance/exit with R-16 · Provide safer pedestrian crossing at the F-90 and R-16 intersection · Coordinate with County DOT to include pedestrian crossings with future intersection improvements: F-90 and R-16, Elm St. and Mill St.





Community Concept Overview

Long-term visioning planning enables a community to provide its residents with sustainable, functional, and beneficial improvements. By analyzing transportation assessments and inventories of bioregional resources, Van Meter's steering committee set goals to define its vision and evaluate success of potential projects. During this goal-setting discussion, the steering committee asked the design team to generate several concepts aligning with the goals of their vision. An outline of the proposed concepts is included below, with locations shown on the corresponding map.

Following this goal-setting process, the design team led a conceptual design workshop and presented feedback from the workshop to community members. Enhancements explored during the design workshop included:

- · Sidewalk & Trail Improvements
- Entry Corridor Beautification
- · Downtown Improvements
- · Pocket Park Concept

The community concept plan is based on input from both the visioning committee and residents of Van Meter, and brings together ideas, goals, and visions for improvements.



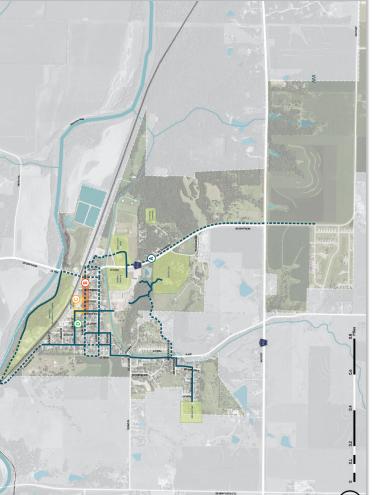


Concept Plan

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- Sidewalk & Trail Improvements
 - (B) Entry Corridor Beautification
- © Downtown Improvements Pocket Park Concept
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Assessment & Survey Analysis

Analysis of inventory and survey data can provide an introspective look at a community, particularly when reviewing historic and present-day conditions. In Van Meter, comparing the historic Raccoon River channel against its present alignment reveals how changes to the natural meander shifted the convergence of the two channels northwest of town. These changes also directly impacted agriculture and quarry operations along with orientation of transportation routes.

The placement of roads and railroads illustrates the role geography had on Van Meter's settlement and development patterns. Van Meter was settled in one of the few remaining flat areas near the Raccoon River. It was an ideal location for a water stop for the railroad and is equidistant between Booneville and De Soto. In its early days, the downtown would have been oriented toward the main source of transportation: the railroad. As cars became the main source of travel, roads were constructed, then paved. These were fit to the geography of the area and cut across railroads at ninety-degree angles. In Van Meter, this meant that roads cut across the east edge of town a few blocks from downtown and wound out of the valley along a ridge (now Richland Rd./R16). As the railroad lost prominence, the community's main street shifted to nearby county highways.

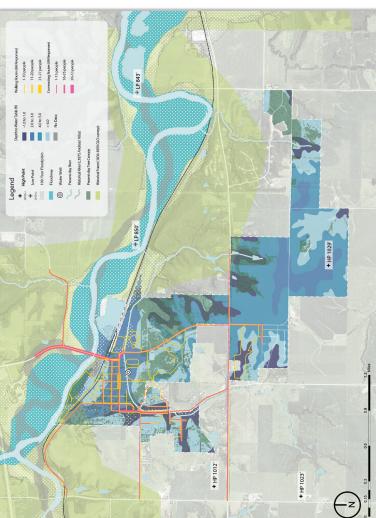
The presence (or absence) of water is another factor in Van Meter's development. The Raccoon River north of town serves as a natural barrier for growth. Development has occurred along nearby streams, where relatively flat areas provided space for housing. More recent development has occurred along ridges south of town. When reviewing depth to water table, many of these higher elevation areas indicate water close to the surface. Development in these areas likely creates a greater degree of wear on roads due to freeze/thaw as well as greater incidence of wet basements. Awareness of the water table can guide future development, or provide likelihood of placement for wells.

All of these factors play a pivotal role in how residents engage the natural places and destinations within their community. With transportation corridors being influenced by local geography, one can quickly see that there is an overlap between vehicular and pedestrian traffic. By reviewing these data, we can begin to explore alternate routes to start separating these modes of transportation and decrease conflicts.

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re-bun Descriment of Natural Recourses. "Natural Recourses Georgraphic Information Sustems Library", Inter/Jumu inch uion no etufora isility.

Analysis of Assessments & Survey Data

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Van Meter

Assessment & Survey Analysis



Sidewalk & Trail Improvements

Multiple user groups participating in community assessments voiced a desire for more connected sidewalk and trail routes. Many identified the school, Van Meter Recreation Complex, downtown core, and Crestview subdivision as areas of focus for these connections. The proposed plan takes a comprehensive look at the existing pedestrian infrastructure and where trails or sidewalks need to be located to connect users to major destinations. These connections also provide over two miles of additional recreational trails.

Key Concept Component

- Create pedestrian routes that connect Crestview to downtown and the school
- · Connect pedestrians to major destinations in town
- · Increase accessibility to Van Meter Recreation Complex
- Provide more recreational opportunities by extending trails and having loops

Recommended Design Expertise

Projects may require help beyond the capacity of the visioning committee or available city staff. For this improvement project, the committee should expect to involve the following design professionals: landscape architect, civil engineer, and traffic engineer

Project Cost Opinion

The following cost opinion is for conceptual design based on current lowa bid pricing. Donated or at-cost materials and volunteer labor, when appropriate, could reduce overall project costs. The future intersection improvements at R16 and F90 are not included in the cost option. To assist the community in seeking funding to implement the sidewalk and trail segments desired as part of the concept plans, sidewalk improvements have been separated from trail routes; highlighting the Recreational Complex Trail Loop from the North-south Trail and East-west Trail to make it easier to apply for funding and plan for future implementation.

	UNIT	QUANTITY	UNIT COST	TOTAL
RECREATIONAL COMPLEX TRAIL LOOP SEGMENT	·			
Mobilization	LS	1	\$30,000	\$30,000
Traffic Control	LS	1	\$20,000	\$20,000
Excavation/Grading	CY	2,725	\$15	\$40,875
Proposed Trail (10' Wide)	SY	4,085	\$55	\$224,675
ADA Detectable Warning Panel	SF	24	\$40	\$960
Pedestrian Crossing Sign	EA	2	\$1,000	\$2,000
Seeding	AC	0.4	\$6,500	\$2,600
		IMPRO	VEMENTS SUBTOTAL	\$321,110
			CONTINGENCY (20%)	\$64,222
		DESIGN/ENG	INEERING FEES (15%)	\$48,167
		IMI	PROVEMENTS TOTAL	\$433,499

ANTICIPATED COST RANGE	\$320.000 - \$440.000
ANTICIPATED COST KANGE	5320.000 - 5440.000

	UNIT	QUANTITY	UNIT COST	TOTAL		
NORTH-SOUTH TRAIL SEGMENT						
Mobilization	LS	1	\$65,000	\$65,000		
Traffic Control	LS	1	\$50,000	\$50,000		
Excavation/Grading	CY	5,050	\$15	\$75,750		
Proposed Trail (10' Wide)	SY	7,575	\$55	\$416,625		
ADA Detectable Warning Panel	SF	32	\$40	\$1,280		
Pedestrian Bridge	LS	1	\$70,000	\$70,000		
Seeding	AC	0.7	\$6,500	\$4,550		

| IMPROVEMENTS SUBTOTAL | \$683,205 | CONTINGENCY (20%) | \$136,641 | DESIGN/ENGINEERING FEES (15%) | \$102,481 | IMPROVEMENTS TOTAL | \$922,327

ANTICIPATED COST RANGE \$680,000 - \$930,000

	QUANTITY	UNIT COST	TOTAL			
EAST-WEST TRAIL SEGMENT						
LS	1	\$12,000	\$12,000			
LS	1	\$10,000	\$10,000			
CY	1,015	\$15	\$15,225			
SY	1,525	\$55	\$83,875			
AC	0.2	\$6,500	\$1,300			
	LS CY SY	LS 1 CY 1,015 SY 1,525	LS 1 \$10,000 CY 1,015 \$15 SY 1,525 \$55			

| IMPROVEMENTS SUBTOTAL | \$122,400 | CONTINGENCY (20%) | \$24,480 | CONTINGENCY (15%) | \$18,360 | CONTINGENCY (15%) | \$165,240 | CONTINGENCY (15%) | CONTINGENCY (15%)

ANTICIPATED COST RANGE \$120,000 - \$170,000

	UNIT	QUANTITY	UNIT COST	TOTAL		
IDEWALK IMPROVEMENTS						
Mobilization	LS	1	\$9,500	\$9,500		
Traffic Control	LS	1	\$15,000	\$15,000		
Excavation/Grading	CY	385	\$15	\$5,775		
Proposed Sidewalk (5' Wide)	SY	1,145	\$55	\$62,975		
ADA Detectable Warning Panel	SF	64	\$40	\$2,560		
Pedestrian Crossing Sign	EA	4	\$1,000	\$4,000		
Crosswalk Striping	EA	2	\$500	\$1,000		
Seeding	AC	0.2	\$6,500	\$1,300		

| IMPROVEMENTS SUBTOTAL | \$102,110 | CONTINGENCY (20%) | \$20,422 | DESIGN/ENGINEERING FEES (15%) | \$15,317 | IMPROVEMENTS TOTAL | \$137,849

ANTICIPATED COST RANGE \$100,000 - \$140,000

OVERALL COST RANGE \$1,220,000 - 1,680,000





on at R16 and F90

Recreational Comp Trail Loop Proposed Sidewa
Existing Trail
Proposed Trail
Trail Segment

Non-House Commany

Key Crossing



oposed R16 and F90 intersection

Pedestrian Routes and Connectivity

trails or sidewalks need to be located to connect users to major destinations. These connections proposed plan takes a comprehensive look at the existing pedestrian infrastructure and where connected sidewalk and trail routes. Many identified the school, Van Meter Recreation Complex downtown core, and Crestview subdivision as areas of focus for these connections. The Multiple user groups participating in community assessments voiced a desire for more also provide over two miles of additional recreational trails.

Sidewalk & Trail Improvements Van Meter

Van Meter



Entry Corridor Beautification

The entry experience is critical component of a community for both residents and visitors. Van Meter is fortunate enough to have a scenic north entrance over the Raccoon River just blocks from the downtown core. However, there are no streetscape elements connecting this entrance to downtown. The concept shown addresses the transition along Main St. that leads visitors from County Road R16 to Van Meter's central commercial district. Streetscape elements such as entry columns, street lights, banners, trees, and planter pots provide a rhythm and an urban aesthetic to give motorists a cue that they are entering the city center.

Key Concept Component

- · Improve entry experience for residents and visitors
- · Create a gateway and transition space as users approach downtown
- · Improve visibility at night with additional lighting

Recommended Design Expertise

Projects may require help beyond the capacity of the visioning committee or available city staff. For this improvement project, the committee should expect to involve the following design professionals: landscape architect, civil engineer, traffic engineer, and sign fabricator.

Project Cost Opinion

The following cost opinion is for conceptual design based on current lowa bid pricing. Donated or at-cost materials and volunteer labor, when appropriate, could reduce overall project costs.

	UNIT	QUANTITY	UNIT COST	TOTAL
ENTRY CORRIDOR BEAUTIFICATION				
Mobilization	LS	1	\$13,000	\$13,000
Traffic Control	LS	1	\$10,000	\$10,000
Entry Column	LS	1	\$15,000	\$15,000
Banner on Pole	EA	6	\$1,000	\$6,000
Pedestrian Light w/ Banner	EA	5	\$6,500	\$32,500
Roadway Light w/ Banner	EA	4	\$8,000	\$32,000
Existing Light Retrofit w/ Banner	EA	4	\$4,000	\$16,000
Planter Pot	EA	4	\$1,000	\$4,000
Overstory Tree	EA	18	\$550	\$9,900
		IMPRO	VEMENTS SUBTOTAL	\$138,400
			CONTINGENCY (20%)	\$27,680
		DESIGN/ENG	NEERING FEES (15%)	\$20,760
IMPROVEMENTS TOTAL				

\$130,000 - 190,000

ANTICIPATED COST RANGE

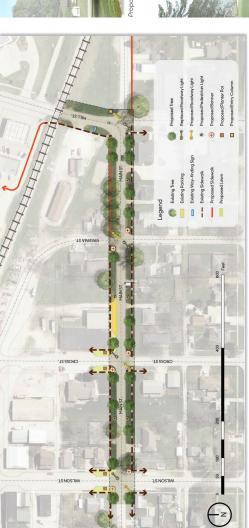
Street Tree Benefits

Urban street trees provide multiple benefits to community members, visitors, and the environment. When properly selected and placed, street trees can:

- 1. Provide shade to pedestrians on sidewalks and trails
- 2. Reduce heat island effect caused by concrete and asphalt surfaces
- 3. Create a more aesthetic streetscape for motorists and pedestrians alike
- 4. Reduce stormwater runoff by absorbing and transpiring rain
- 5. Create safer walking environments by distinguishing between pedestrian and vehicular spaces
- 6. Improve business revenue: studies have shown increased income for stores on tree-lined streets versus those without

Recommended Street Tree List

COMMON NAME	SCIENTIFIC NAME	MATURE HEIGHT	MATURE WIDTH
Overstory Trees	•		
State Street Maple	Acer miyabei 'Morton'	30'-40'	30'-40'
Emerald Queen Norway Maple	Acer platanoides 'Emerald Queen'	40'-50'	35'-45'
Autumn Flame Red Maple	Acer rubrum 'Autumn Flame'	40'-60'	30'-50'
Green Mountain Sugar Maple	Acer saccharum 'Green Mountain'	40'-60'	25'-45'
Common Hackberry	Celtis occidentalis	40'-60'	40'-60'
Turkish Filbert	Corylus colurna	40'-50'	25'-30'
Autumn Gold Gingko	Gingko biloba 'Autumn Gold'	40'-50'	20'-30'
Princeton Sentry Gingko	Gingko biloba 'Princeton Sentry'	30'-40'	25'-35'
Imperial Honeylocust	Gleditsia tricanthos f. inermis 'Impcole' Imperial	35'-45'	25'-35'
Skyline Honeylocust	Gleditsia tricanthos f. inermis 'Skycole' Skyline	50'-70'	30'-45'
Quaking Aspen	Populus tremuloides	50'-70'	35'-50'
Swamp White Oak	Quercus bicolor	50'-60'	50'-60'
Shumard Oak	Quercus shumardii	40'-60'	30'-40'
Shawnee Brave Baldcypress	Taxodium distichum 'Michelson' Shawnee Brave	50'-75'	15'-20'
Redmond Linden	Tilia americana 'Redmond'	50'-70'	40'-65'
Littleleaf Linden	Tilia cordata	40'-80'	30'-50'
New Harmory Elm	Ulmus americana 'New Harmory'	50'-70'	30'-50'
Princeton Elm	Ulmus americana 'Princeton'	20'-50'	10'-30'
Understory Trees (below power line	25)		
Autumn Brilliance Serviceberry	Amelanchier x grandiflora 'Autumn Brilliance'	20'-25'	20'-25'
American Hornbeam	Carpinus caroliniana	20'-25'	15'-20'
Thornless Cockspur Hawthorn	Crataegus crus-galli var. inermis	15'-20'	15'-20'
Redbud	Cercis canadensis	20'-30'	25'-35'
Spring Snow Crabapple	Malus 'Spring Snow'	20'-25'	15'-20'
Eastern Hornbeam	Ostrya virginiana	20'-35'	20'-35'
Ivory Silk Japanese Tree Lilac	Syringa reticulata 'Ivory Silk'	25'-40'	20'-30'





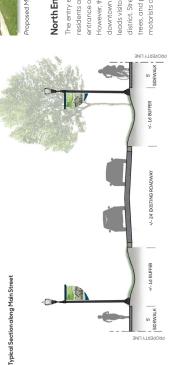
sed Mill St. corridor improu



Lighting + Banner Options

North Entry Corridor Creation/Further Beautification

residents and visitors. Van Meter is fortunate enough to have a scenic north downtown. The concept shown addresses the transition along Main St. that district. Streetscape elements such as entry columns, street lights, banners, However, there are no streetscape elements connecting this entrance to trees, and planter pots provide a rhythm and an urban aesthetic to give leads visitors from County Road R16 to Van Meter's central commercial entrance over the Raccoon River just blocks from the downtown core. The entry experience is critical component of a community for both motorists acue that they are entering the city center.



Van Meter

Retrofit Roadway Light with Banner

25.Tall Roadway Light with Banner

16' Tall Pedestrian Light with Banner

12 Tall Banner

Entry Corridor Beautification

LAs: Josh Shields, PLA; Nate Schlorholtz Intern: Fan Lan Bolton & Menk, Inc.





Downtown Improvements

Community assessments and surveys confirmed a desire to enhance the downtown streetscape, add supportive features for pedestrians, and improve walkability. Updating the streetscape to include bump-outs allows the space for amenities such as street trees, planting beds, pavers, benches, and lighting while maintaining the majority of the existing parallel parking spaces. The concept plan also considers eventual growth and redevelopment of key downtown areas. These downtown enhancements will help create a more functional and enjoyable experience for both pedestrians and motorists.

Key Concept Component

- · Improve walkability downtown
- Add pedestrian amenities (benches, litter receptacles, bike racks)
- · Create a downtown aesthetic by adding street trees/planters/pavers/historic lighting

Recommended Design Expertise

Projects may require help beyond the capacity of the visioning committee or available city staff. For this improvement project, the committee should expect to involve the following design professionals: landscape architect, civil engineer, electrical engineer, and traffic engineer.

Project Cost Opinion

The following cost opinion is for conceptual design based on current lowa bid pricing. Donated or at-cost materials and volunteer labor, when appropriate, could reduce overall project costs.

	UNIT	QUANTITY	UNIT COST	TOTAL
DOWNTOWN IMPROVEMENTS	•			
Mobilization	LS	1	\$95,000	\$95,000
Traffic Control	LS	1	\$55,000	\$55,000
Pavement Removal	SY	3,590	\$15	\$53,850
Excavation/Grading	CY	3,155	\$15	\$47,328
Asphalt Roadway Mill & Overlay	SY	6,640	\$45	\$298,800
Sidewalk, Conc. (5" Thick)	SY	2,830	\$55	\$155,650
Curb & Gutter	LF	2,900	\$30	\$87,000
Roadway Markings	LS	1	\$100,000	\$100,000
Pavers	SF	890	\$25	\$22,250
Pedestrian Light w/ Banner	EA	7	\$6,500	\$45,500
Roadway Light w/ Banner	EA	2	\$8,000	\$16,000
Existing Light Retrofit w/ Banner	EA	3	\$4,000	\$12,000
Bench	EA	3	\$2,000	\$6,000
Trash Receptacle	EA	4	\$900	\$3,600
Bike Rack	EA	3	\$750	\$2,250
Planter Pot	EA	4	\$1,000	\$4,000
Overstory Tree	EA	11	\$550	\$6,050
Planting Bed	SY	280	\$90	\$25,200
Lawn Seeding	AC	0.2	\$6,500	\$1,300
ADA Detectable Warning Panel	SF	160	\$40	\$6,400

| IMPROVEMENTS SUBTOTAL | \$1,043,178 | CONTINGENCY (20%) | \$208,636 | DESIGN/ENGINEERING FEES (15%) | \$156,477 | IMPROVEMENTS TOTAL | \$1,408,290 |

ANTICIPATED COST RANGE

\$1,000,000 - \$1,410,000



Improving Aesthetics and Amenities in Downtown

existing parallel parking spaces. The concept plan also considers eventual growth and redevelopment of key downtown areas. These downtown enhancements will help create a streetscape, add supportive features for pedestrians, and improve walkability. Updating trees, planting beds, pavers, benches, and lighting while maintaining the majority of the Community assessments and surveys confirmed a desire to enhance the downtown the streetscape to include bump-outs allows the space for amenities such as street more functional and enjoyable experience for both pedestrians and motorists.



Downtown Improvements Van Meter

/isualization of proposed downtown impro





Pocket Park Concept A

Van Meter's steering committee expressed a need for a community gathering area near downtown and identified a parcel of land on the west end of downtown that is well equipped for park development. The concept plan includes programming for family-oriented activities as well as flexible open space for community events. Trees and shrubs provide screening for adjacent properties as well as shade for park users. Multiple user groups expressed a desire for site amenities in their community parks. The plan includes benches, shade structures, and a portable restroom to support park use. Parallel parking is also included in the proposed improvements to accommodate those driving to the park.

Key Concept Component

- · Provide a gathering space near downtown
- · Provide additional family-oriented amenities (shelter, playground)

Recommended Design Expertise

Projects may require help beyond the capacity of the visioning committee or available city staff. For this improvement project, the committee should expect to involve the following design professionals: landscape architect, civil engineer, structural engineer, and electrical engineer.

Project Cost Opinion

The following cost opinion is for conceptual design based on current bid pricing. Donated or at-cost materials and volunteer labor, when appropriate, could reduce overall project costs.

	UNIT	QUANTITY	UNIT COST	TOTAL
POCKET PARK (OPTION A)	·		•	
Mobilization	LS	1	\$39,000	\$39,000
Excavation/Grading	CY	280	\$15	\$4,200
Parallel Parking, Concrete	SY	165	\$60	\$9,900
Sidewalk, Conc. (5" Thick)	SY	195	\$55	\$10,725
Pavers	SF	100	\$22	\$2,200
Boardwalk	SF	145	\$40	\$5,800
Playground Surfacing	SF	1,650	\$35	\$57,750
Playground Equipment*	LS	1	\$160,000	\$160,000
Shelter, 15' x 15'	EA	3	\$15,000	\$45,000
Portable Restroom w/ Enclosure	LS	1	\$8,500	\$8,500
Drinking Fountain	EA	1	\$8,000	\$8,000
Bench	EA	5	\$2,000	\$10,000
Trash Receptacle	EA	1	\$900	\$900
Overstory Tree	EA	6	\$550	\$3,300
Shrub	EA	30	\$75	\$2,250
Planting Area	SY	125	\$90	\$11,250
Park Entry Sign w/ Stone Wall	LS	1	\$12,000	\$12,000
Lawn Seeding	AC	0.2	\$6,500	\$1,300
Biocell/Rain Garden	SF	575	\$40	\$23,000
Fence	LF	140	\$80	\$11,200

*Playground equipment price may vary depending on elements selected

ANTICIPATED COST RANGE

\$420,000 - \$580,000





Pocket Park Concept A

Van Meter's steering committee expressed a need for a community gathering area near downtown and identified a parcel of land on the west end of downtown that is well equipped screening for adjacent properties as well as shade for park users. Multiple user groups expressed a desire for site amenities in their community parks. The plan includes benches for park development. The concept plan includes programming for family-oriented activities as well as flexible open space for community events. Trees and shrubs provide shade structures, and a portable restroom to support park use. Parallel parking is also





Pocket Park Concept Van Meter





Pocket Park Concept B

Van Meter's steering committee expressed a need for a community gathering area near downtown, and identified a parcel of land on the west end of downtown that is well equipped for park development. The concept plan includes programming for family-oriented activities such as a playground and a splash pad. Trees and shrubs provide screening for adjacent properties as well as shade for park users. Multiple user groups expressed a desire for site amenities in their community parks. The plan includes limestone seating, a shelter, and a portable restroom to support park use. Parallel parking is also included in the proposed improvements to accommodate those driving to the park.

Key Concept Component

- Provide a gathering space near downtown
- · Provide additional family-oriented amenities (splash pad, shelter, playground)

Recommended Design Expertise

Projects may require help beyond the capacity of the visioning committee or available city staff. For this improvement project, the committee should expect to involve the following design professionals: landscape architect, civil engineer, structural engineer, and electrical engineer.

Project Cost Opinion

The following cost opinion is for conceptual design based on current bid pricing. Donated or at-cost materials and volunteer labor, when appropriate, could reduce overall project costs.

	UNIT	QUANTITY	UNIT COST	TOTAL
POCKET PARK (OPTION B)			•	
Mobilization	LS	1	\$56,000	\$56,000
Excavation/Grading	CY	300	\$15	\$4,500
Parallel Parking, Concrete	SY	165	\$60	\$9,900
Sidewalk, Conc. (5" Thick)	SY	315	\$55	\$17,325
Splash Pad*	LS	1	\$150,000	\$150,000
Limestone Seating	LF	60	\$400	\$24,000
Playground Surfacing	SF	2,450	\$35	\$85,750
Playground Equipment*	LS	1	\$180,000	\$180,000
Shelter, 30' x 12'	EA	1	\$25,000	\$25,000
Portable Restroom w/ Enclosure	LS	1	\$8,500	\$8,500
Drinking Fountain	EA	1	\$8,000	\$8,000
Overstory Tree	EA	3	\$550	\$1,650
Shrub	EA	46	\$75	\$3,450
Planting Area	SY	40	\$90	\$3,600
Park Entrance Arch	LS	1	\$20,000	\$20,000
Lawn Seeding	AC	0.2	\$6,500	\$1,300
Fence	LF	140	\$80	\$11,200
Bench	EA	2	\$2,000	\$4,000

*Splash pad and playground equipment price may vary depending on elements selected

| IMPROVEMENTS SUBTOTAL | \$614,175 | CONTINGENCY (20%) | \$122,835 | DESIGN/ENGINEERING FEES (15%) | \$92,126 | IMPROVEMENTS TOTAL | \$829,136

ANTICIPATED COST RANGE

\$610.000 - \$830.000





Pocket Park Concept B

downtown, and identified a parcel of land on the west end of downtown that is well equipped for park development. The concept plan includes programming for family-oriented activities such restroom to support park use. Parallel parking is also included in the proposed improvements to as a playground and a splash pad. Trees and shrubs provide screening for adjacent properties as well as shade for park users. Multiple user groups expressed a desire for site amenities Van Meter's steering committee expressed a need for a community gathering area near in their community parks. The plan includes limestone seating, a shelter, and a portable accommodate those driving to the park.



Legend



Pocket Park Concept Van Meter



Implementation Strategies

The Visioning Program is the beginning of the planning process for implementation of projects that will contribute to an enhanced quality of life in Van Meter. Despite the tremendous value in data gathering, analysis, conclusions, and recommendations; the greatest value is providing residents of Van Meter with the opportunity to look at their community form 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.

Recommendations

Project implementation should be determined based on the priority given it by the community and 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. 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:

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

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 but may look vastly different because of constraints or opportunities unknown during the visioning process. However, the design that emerges from final design may also look very similar to that developed during the Visioning Program.

One thing to keep in mind with all projects, whether phased or not, is to make sure that the overall project is designed and planned for at the beginning to ensure that each segment will interconnect and relate to another. Failing to plan for future construction phases can easily lead to complications that could set back positive progress for years.

Action Plan

It is recommended that project implementation be approached using the following basic action plan:

Year 1



Schedule monthly steering committee meetings, confirm understanding of scope and anticipated cost for identified projects. Prioritize top three projects for design refinement.



Determine the most feasible first project and identify all potential grant/funding opportunities.



Using Community Visioning deliverables and assistance from Trees Forever and a landscape architect, develop application(s) for appropriating grant/funding.



After successfully securing funding, develop a schedule for project design, bidding, and construction, and enter into a contract with a design consultant.

Year 2 & Ongoing



Re-evaluate priority projects based on funding success and repeat

Tasks 2-4 for a second project



Grant Funding Opportunities Legend



Iowa DNR REAP

open space, park, trails, access to natural resources



The Wellmark Foundation

food nutrition, healthy environment, safety



Keep Iowa Beautiful

garden tools, site furniture, paint



Iowa Economic Development Authority

main street, green infrastructure



Iowa Department of Transportation

accessibility, safety trails, roadside vegetation



Iowa Department of Cultural Affairs

community enhancement through art, history & culture



Trees Forever

plantings, trees, educations



Iowa DNR/NPS Land and Water Conservation Fund natural areas, water resources and cultural heritage



Available Resources

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.

Funding Opportunities

- Grants
- · Foundations & Partnerships (private and public)
- · Trusts and endowments
- Fund-raising and donations
- Memorials
- Volunteer labor
- · Low-interest loans
- · Implement project in multiple phases

Funding Sources

- · lowa Department of Transportation (IDOT)
- · Iowa Department of Natural Resources (IDNR)
- · lowa Department of Cultural Affairs (IDCA)
- · lowa Economic Development Authority (IEDA)
- · lowa Department of Agriculture & Land Stewardship (IDALS)
- · Utility companies
- · Trees Forever
- · U.S. Department of Agriculture (USDA)

Grant Programs

- · Alliant Energy and Trees Forever Branching Out Program
- · Federal Highway Administration (FHWA) National Recreational Trails Program
- · Federal Highway Administration (FHWA) Surface Transportation Program (STP)
- · lowa Clean Air Attainment Program (ICAAP)
- · Iowa DNR Recreation Infrastructure Program
- · Iowa DNR Resource Enhancement and Protection (REAP)
- Iowa DNR/National Park Service (NPS) Land and Water Conservation Fund (LWCF)
- lowa Department of Agriculture & Land Stewardship State Revolving Fund (SRF)
 Program
- · lowa DOT lowa's Living Roadways Projects Program
- · lowa DOT Living Roadways Trust Fund Program (LRTF)
- · lowa DOT Americans with Disabilities Act (ADA) Transition Plan
- · Iowa DOT Statewide Transportation Enhancement Funding
- · Iowa DOT State Recreational Trails Program
- · Iowa DOT Transportation Alternatives Program (TAP)
- · lowa DOT Traffic Safety Improvement Program (TSIP)
- · Pheasants Forever
- Revitalization Assistance for Community Improvement (RACI) Grant Program
- · Wellmark Foundation