Final Report and Feasibility Study

Vinton, Iowa







Planning and Design Consultant:

2023

FLENKER

LAND ARCHITECTURE



Professional Planning, Design & Environmental Services

Program Partners:

Iowa Department of Transportation Trees Forever Iowa State University



Participants

Town Steering Committee

Matt Boggess Aric Chvala Cindy Elwick Mike Elwick Kaitlin Emrich Erika Hogson Ann Jorgensen Kyle Koeppen Bud Maynard Scott Meyer Rylie Pflughaupt Audra Piotti Meilissa Schwan Melody Snow Eric Upmeyer Scott Wirth

Trees Forever

80 West 8th Avenue Marion, IA 52302 319-373-0650 www.treesforever.org

> Jeff Jensen 515.320.6756 jjensen@treesforever.org

Iowa State University

Landscape Architecture Extension 2321 North Loop Drive, Suite 121 Ames, IA 50010 515-294-3721 www.communityvisioning.org

> Julia Badenhope, Program Director and Professor of Landscape Architecture Sandra Oberbroeckling, Project Manager and Program Specialist Chad Hunter, Landscape Architecture Outreach Studio Manager

Flenker Land Architecture Consultants, LLC

29476 240th Avenue Long Grove, Iowa 52756 563.225.2255 www.FlenkerLandARchitects.com

> Meg Flenker, Landscape Architect 563.370.3236 mflenker@flenkerlandarchitects.com

Trevor Smith Landscape Architecture Intern Iowa State University Mikky Ojha Landscape Architecture Intern Iowa State University



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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 that was founded in 1997 by Meg Flenker. Professionally licensed FLAC works with both public- and private-sector clients throughout all phases of its projects—from the conceptual stages of assessing project feasibility, evaluating alternatives, researching funding, performing site analysis, and creating schematic designs, to preparing 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 persons with 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 Iowa, Illinois, and Wisconsin Departments of Transportation.

FLAC continually strives 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 levels.



Site Design: Dubuque, Ia.



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.



The Design Team



Meg Flenker, PLA, ASLA, CPESC, CPSWQ

Meg Flenker is a registered landscape architect with more than 34 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 Midwest 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-City area after graduating from lowa State University. Today, she resides just north of the Quad Cities on the family farm where she grew up and continues to be active in the community by serving as the township clerk, cemetery sexton, and treasurer for the board of directors of the local volunteer fire department.



Trevor Smith, Intern

Trevor is entering his 4th year in the five-year Landscape Architecture program at lowa State University with a minor in environmental studies. He has been with Flenker Land Architects since June 2023 and Community Visioning since May 2022. Born in Ankeny, Iowa, Trevor found a love for building things, especially with Legos, and after many trips to the Omaha Zoo with his grandmother, he found a love for exotic animals as well.

Landscape Architecture has opened the door for him to design zoos or enter into the realm of conservation design in the future. Trevor firmly believes landscape architecture is not just for humans and would love to create spaces that animals and humans can enjoy.



Mikky Ojha, Intern

Mikky is an enthusiastic MLA aspirant who is entering her second year in the Master of Landscape Architecture (MLA) program at Iowa State University. A native of Nepal, she received her undergraduate degree in Architecture from Tribhuvan University Institute of Engineering Pulchowk Campus. Prior to starting her graduate studies at Iowa State, Mikky worked in Nepal as a professional architect on several residential, commercial, and public park projects. Her work provided her with a working knowledge of and experience in interior design, residential drawings, park designs, commercial buildings, and restaurants.

During her career in architecture, Mikky came to realize the importance that the outdoor environment has when integrating buildings into their surroundings and creating a sense of place. In addition, she saw the positive impact that public and green spaces have on improving the quality of life in an urban setting. This new understanding that outdoor space warranted the same, if not more, focus than the buildings during the design process led her to the path of landscape architecture.



Program Overview

Vinton is one of 10 communities selected to participate in the 2023 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 Vinton visioning committee identified a number of goals and priority areas during the visioning process, which are included below:

- Improve pedestrian connectivity and accessibility
- Implement branded way-finding to enhance, the community's identity, user experience and streetscape aesthetics
- Utilize traffic-calming/control methods to assist in improving both vehicular and pedestrian safety and circulation
- Enhance the Vinton trail system by extending it to connect to both local and regional trails and adding additional site amenities such as benches and shade trees to improve user experience

Capturing the Vinton 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.



Design workshop (June 29, 2023): Community members review precedent boards and preliminary concepts and provide their input during the design workshop that was held during the Vinton Farmers Market



Design Workshop (June 29, 2023): A community member listens to an explanation of various intersection treatments to aid in traffic calming



Design Workshop (June 29, 2023): Community members use chalk to express what they believe makes Vinton a great place in which to live



Design Workshop (June 29, 2023): Community members use Wiki Sticks to layout desired routes for new sidewalks, trails, and safe routes to school



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Design workshop (June 29, 2023): Community members review precedent boards and preliminary concepts and provide their input during the design workshop that was held during the Vinton Farmers Market.

Program Overview

The city of Vinton is one of 10 communities selected to participate in the 2023 Iowa's Living Roadways Community

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

Visioning Program Goals:

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

existing within communities.

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

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





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 coordinators from Trees Forever.

and the design team. In addition, ISU project staff and interns conduct a bioregional assessment and public input sessions, groups, and a random-sample survey. Iowa State University, Community Visioning is part, manage the visioning process andscape Architects (PLA) to be part of the design team community vision" and transportation enhancement plan ncluding transportation assets and barriers (TAB) focus and work with the various communities in creating their Architecture and ISU Extension and Outreach, of which of Transportation, select private-sector Professional along with Trees Forever and the lowa Department owa State University's Department of Landscape

by residents participating in the focus groups and the public enhancements based on the needs and desires expressed owa State University processes the information collected rom the focus groups and surveys and provides the data use in developing community-centered transportation to the steering committee and design team for their

The Community Visioning program is sponsored by the lowa Department of Transportation.



Design Workshop (June 29, 2023). Community members use chalk to express what they believe makes Vinton a great place in which to live

Community Goals

priorities were reflective of what residents identified during priority areas during the visioning process. These goals and The steering committee identified anumber of goals and their participation in the TAB workshops. The community goals focused on four main initiatives:

- Improve pedestrian connectivity and accessibility Implement branded way-finding to enhance, the
 - community's identity, user experience and streetscape aesthetics
- in improving both vehicular and pedestrian safety Utilize traffic-calming/control methods to assist andcirculation
- additional site amenities such as benches and shade connect to both local and regional trails and adding Enhance the Vinton trail system by extending it to trees to improve user experience

Refer to board 5, "What, Where, & Why," for further details related to the main community goals summarized above.



Design Workshop (June 29, 2023): Community members use Wiki Sticks to layout desired routes for new sidewalks, trails, and safe routesto school

Capturing the Vinton 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:

- Program Overview
- Bioregional Assessments
- Transportation Assets and Barriers
- Transportation Inventory & Analysis What, Where, & Why
- Concept Plan
- Safety & Traffic -Calming/Control Community Identity
 - 10. Trail Extension + Enhancements 11. Implementation Connectivity & Accessibility

Flenker Land Architects Consultants, LLC

LA: Meg Flenker, PLA, CPESC, CPSWQ Interns: Trevor Smith, Mikky Ojha





Bioregional Assessment

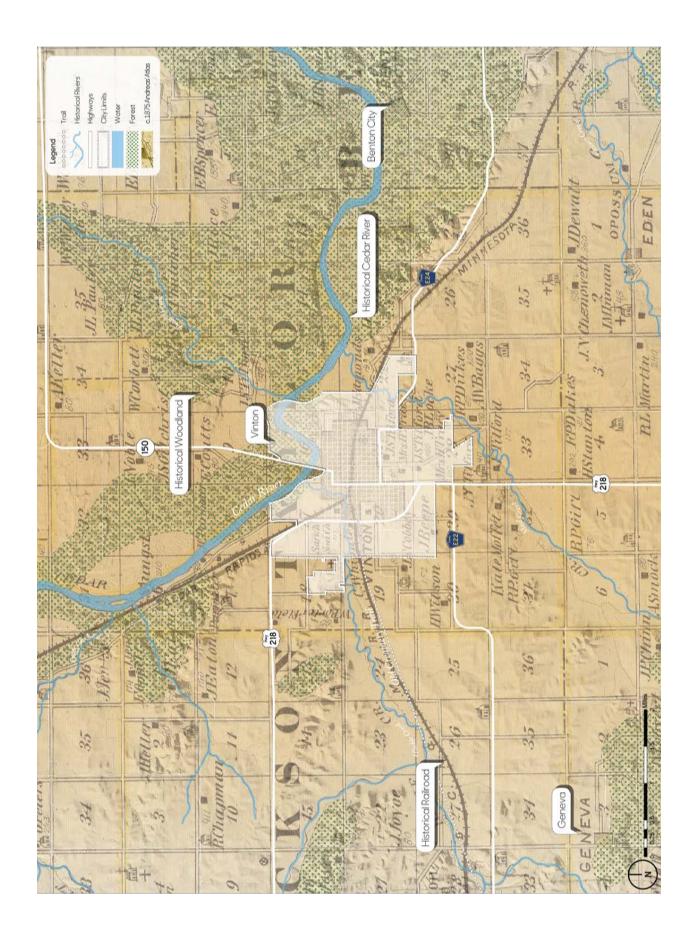
Historical Settlement Patterns

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.

Vinton 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

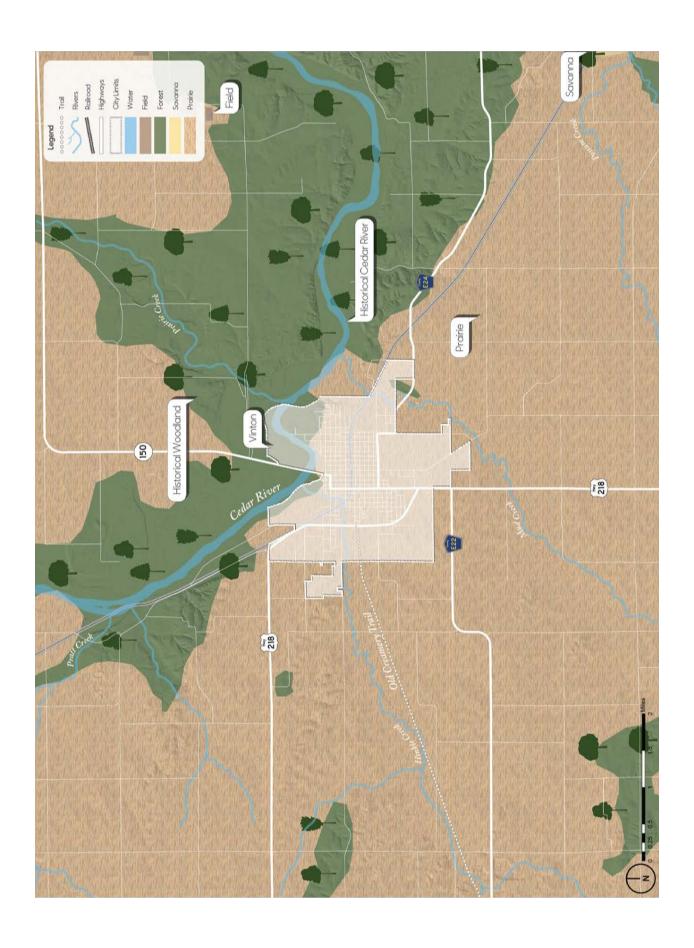
The plant community names mapped by the GLO surveyors varied. The original terminology they used has been preserved in the original data, but we have renamed them on this map to reflect names used to describe contemporary vegetation communities.

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>Prairie</u>: Perennial non-woody plants; fire dominated.
- 3. <u>Savanna</u>: Scattered trees, with an open canopy, and prairie below. Fire dominated.
- 4. Field: 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.



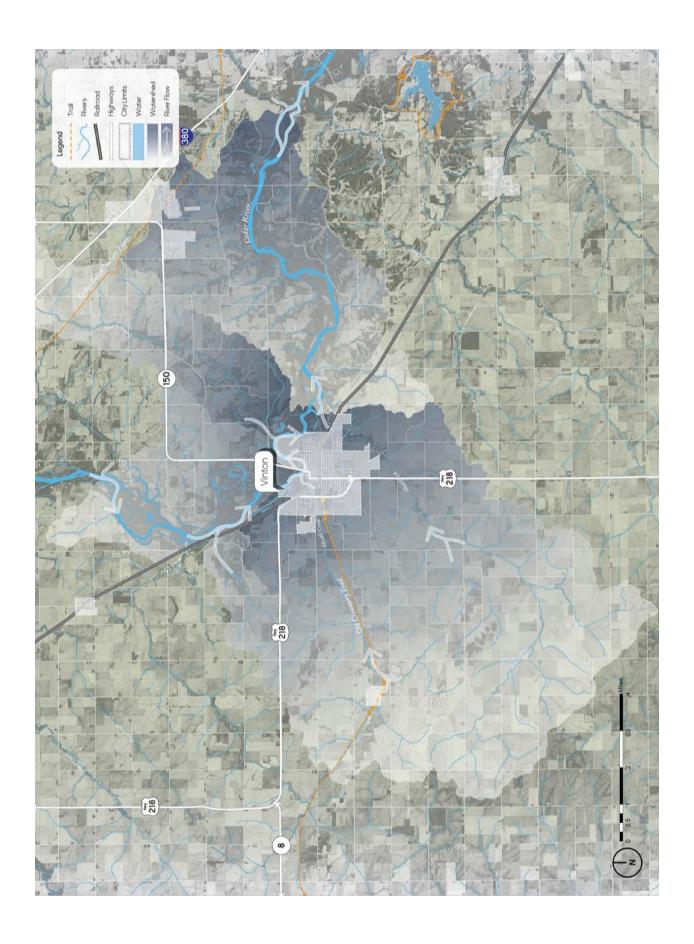


Regional Watershed

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 flooding, even if there is no surface water draining to the area.



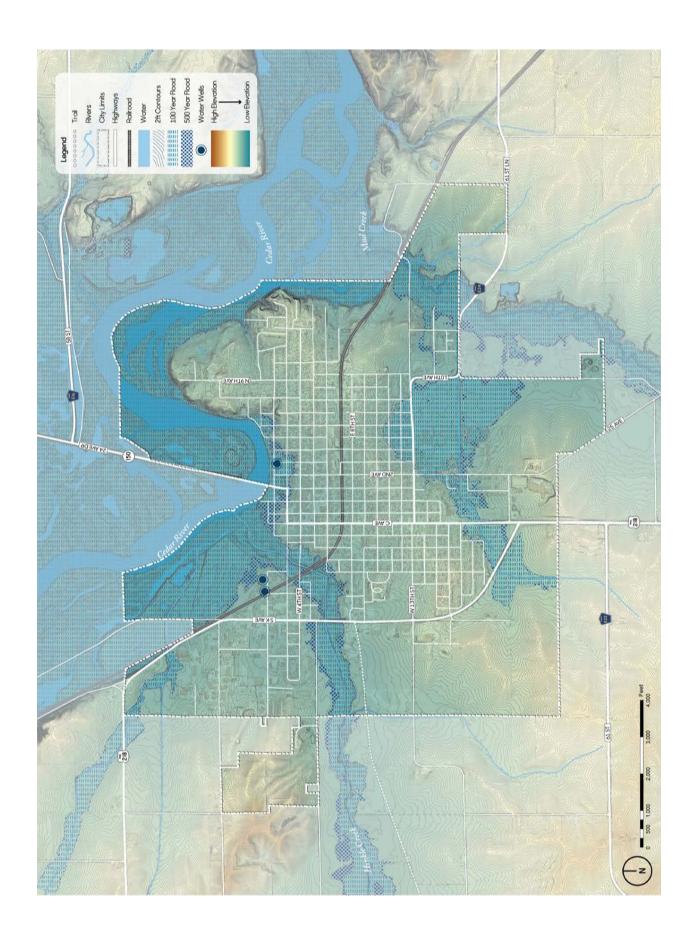


Elevation and Flow

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.

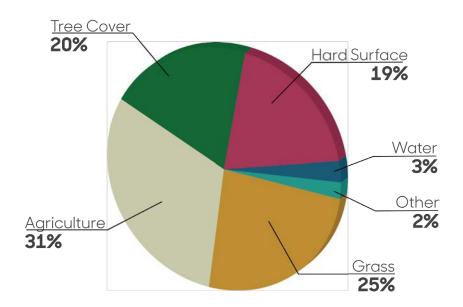
What do you observe about the dominant landcover types in your community?

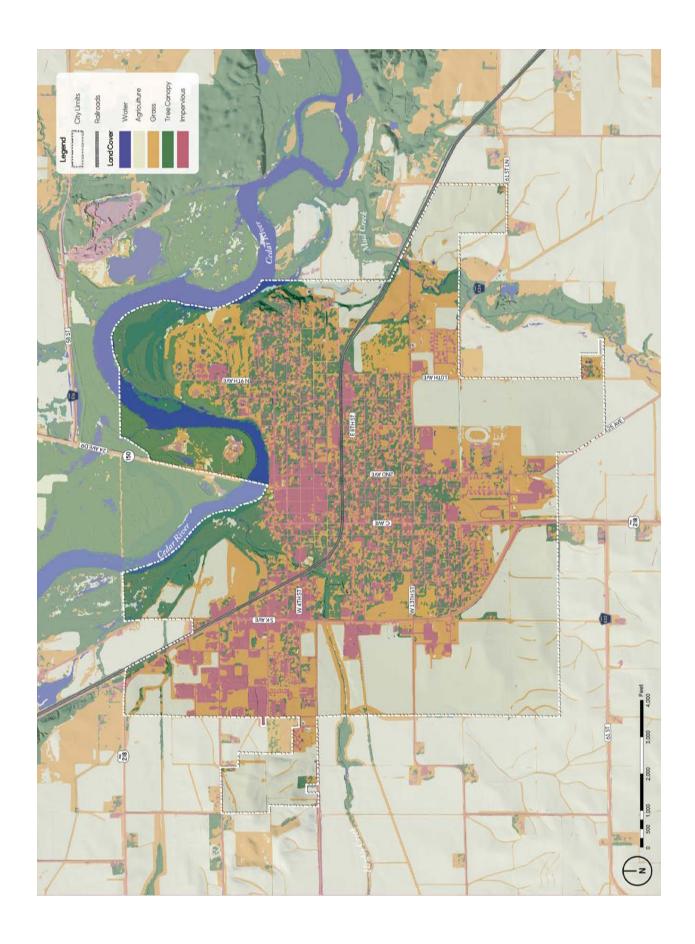
Where is the tree canopy most concentrated?

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 Vinton, 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 Vinton'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 Vinton residents with different transportation needs to participate in focus groups. A total of 46 residents attended Vinton's workshop. Participants were separated into five user groups and the Vinton 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 pedestrianand 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



Vinton's downtown is welcoming because of its streetscape amenities, safety features, green spaces, and ample parking.



Pedestrians don't feel comfortable walking along or crossing HWY 218 because of fast traffic and absence of sidewalks.



People enjoy the Nathan's Miles Glow Trail for its peaceful setting, distance, and minimal traffic. The surface is wide and well maintained and offers a fun experience at night when it glows.



The confusing geometry and fast traffic at the intersection of 13th St. and C Ave. creates challenging crossing conditions for pedestrians.



The well-maintained, wide sidewalk on 13th Street, along with a beautiful green space, provides a pleasant experience for walking.



The obstructed view, fast traffic, and undefined crosswalk make pedestrians uneasy to cross HWY 150 to get to Celebration Park.



What People Said

"...[the] Glow Trail...[is] really cool...[it's] two miles...it's one big loop...and there [are] benches scattered [along it]."

"I walk home from the middle school every day, and I have to walk in the road because we don't have any sidewalks [on W 1.5th St]."

"...[The Old Creamery Trail] is very hard to see. There're people that go by it all the time [on Hwy 218] and don't realize that's where the trail is. And to me, it's unsafe, because...It's pretty busy right there."

"A few days ago when I was coming home from school...there [were] two women and then a baby in a stroller. They had to run across [the intersection of US 218 and W 16th St because]...there's really not a good way for them to safely get across."

"I usually [bike] on the sidewalk [on 6th Ave] but there [are] a lot of curbs [without ramps] when I'm crossing the streets...I have to stop for a few seconds and actually pick my bike up."

"I feel like [The Creamery] Trail doesn't get as much use because...[not] as many people know about it..."

"...[the] only option for us to run is in the streets. There's no sidewalk where [we] could run side by side...a lot of the sidewalks in general are very narrow, so it's hard to just even walk."

"A lot of [the] time, people are speeding [on 1st Ave near 3rd St] because they're heading

out of town [on

Highway] 150...

"I love the idea of connecting the Old Creamery [Trail] to the Glow Trail..."

"One thing we appreciate where we have it is shelter from the wind...certain parts of the Creamery Trail are nicely sheltered."

"We need an overpass over [US] 218 so the school kids on [the west] side don't have to walk across a busy highway."

"[The] sidewalks are horrible...all over...That's why a lot of people walk in the street...That's the only place you can walk."

Actives

"I think 2nd Avenue needs attention because [of] the high school and the whole Anderson addition. There's going to be increasing traffic on that street... the street is going to have to be wider, and it needs sidewalks on one or both sides."



Older Adults

"[Walking] used to be more enjoyable just from an aesthetic point of view before the derecho. We used to have beautiful maple trees."

"...it's nice that it's a Glow Trail, but there's no [other] lighting at night. I'm not sure how safe people feel that walk it at night."

"The downtown sidewalks are...nice and wide [but] they're slanted...they did that for water issues...because... "When [the city] my [spouse] was in a wheelchair... redid downtown we were very aware of that." and added more gutters...that made a tremendous 'A lot of people don't difference for like the [angled] [reducing flooding in] parking downtown, the downtown area." but [we] do...it allows you much better access to the "...Benton County businesses....' Transportation... provide[s] bus and van "...the sidewalks... services...mostly for the to downtown are elderly and disabled, terrible; they're just but...a lot of families use old and they haven't their service to get their been updated." children to preschool or Mobility to school." Challenged ...getting to the Old Creamery Trailhead] is a real mess...You have to jog across [Highway 'There's a bridge [on 218]...[because] the trailhead Hwy 218], but there parking is on the east [side] of [are] no sidewalks... the street. The trail itself is on people [are] walking in the west [side] of the street." the bridge as people are drtiving over it. I've almost hit people there." "I walk on streets with mature trees. [The] A Ave, 1st Ave, 2nd Ave neighborhood from 13th "I don't let my kids to downtown...is a really old walk to school... neighborhood. They have because they big old shady trees..." have to...walk in the streets...I would love it if they could walk to "When I walk my dog, I... school...to the park... [take Riverside Dr into the to the library, but it's park]...You feel like you're Steering Committee not safe for them to not necessarily in town do so..." when you walk back there. You do get some traffic, but not a whole lot." "Riverside Dr is a one lane-road...so it's hard if you're walking; you have to...get real close to the edge. If you have a dog or kids or if you're riding a "[When]Imoved bike, it can be rather cumbersome here, I [thought], 'Oh, to keep everything safe...' "I would like...[a] this is how they wrote biking path for kids the book Where to be able to ride the Sidewalk Ends,' their bikes on for a because you'd be significant amount walking...on the of time and be safe sidewalk, and then...it the entire time..." just ends." "I think there should "...there's no sidewalk streetlights on the Glow on [the Highway] Trail...it should be well 218...bridge [over lit at night...It's a little Hinkle Creek]...it's scary...[but] you might very, very narrow... lose your glow... that becomes a

Parents

safety hazard."



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, run, and go horseback riding for recreation and/or exercise. They also drive or call dial-a-ride. This group enjoys walking the paths at the cemetery. Actives would like more trees at Kiwanis Park and believe that the community would benefit from overall beautification.

Mobility-challenged individuals walk, bike, and drive cars and golf carts. They also utilize the Benton County Transportation Service. They pointed out that the tactile pavement strips at intersections are not effective in winter when ice and snow builds up, and that better technology is needed to help the visually impaired.

Older adults walk, bike, and drive cars and golf carts. This group likes walking the Old Creamery Trail because it has benches, trees, a shelter, and nice surfaces. They would like 25th Avenue to be paved to reduce the amount of dust on the Glow Trail. They also want dark-sky lighting all over town

Youth walk and bike to get around town. Older youth also drive cars and four-wheelers. They would like to have a crossing guard on A Avenue after school. Youth said that while everyone knows what the Glow Trail is, people are less familiar with the Old Creamery Trail, and they suggested that the city do something to promote it.

Parents walk, bike, drive, and ride scooters. This group is concerned about the safety of their children and would like safe bike paths for kids where they can ride a good distance away from traffic. Parents think that the uncontrolled intersections in town are confusing because drivers aren't sure who has the right-of-way.

Steering committee members walk, bike, and drive to get from place to place. Amenities such as access to water, trash receptacles, and lighting factor into this group's choices of walking and biking routes. A concern of the committee is how difficult it is for walkers and bikers to cross Highway 218 to get to the Old Creamery Trailhead.

		Actives walk, bile, run, and go horseback riding for correction and or exercise. They bob of whe or coll ded-e-ride. This group enjoys walking the parts at the centery. Actives would like more trees at Kwarnis Parts and believe that the community would benefit from overall beautification.	debugling-challegade individual with Bias, and dheire cuts and golf cuts. They also utilize the Branch Courty inspectations Service. They pointed out that the tradistic premat strips or intersections are not defeative in written when near many since buildings or and any branch earth of the second or and as well as and as the second in the second	Older actulis walk, Libie, and drive acris and galf ones. This group beave withing the Bod Cold Commeny Trail because that bear dries, trees, a sheller, and fine articoses Than you'd like Saffy shem to be powed to reduce the amount of dust on the Glow Trail. They diso want dark-sky lighting all over town.	Youth walk and bise to get around town. Older youth also dive bases and early and all they would like to have a crossing guid and Awaruse fler school. Volunts all this will be also what the Glow If all; people are less familiar with the clow If all; people are less familiar with the clow If all; people are less familiar with the clift you writing to promote it.	Parents walk, bike, drive, and ride scooters. This group is convented doubt the skept of their children and would be east like parts for kids where they control are said to good distorce away from traffic. Denats think that the uncontrolled mile-sections in how on according a because drivers and sure who has the light-of-way.	Steering committee members walk bile, and drive or oget from prode a potice. Americal sessition is a cocess to water, train reseptancies, and lighting access to water, train reseptancies, and lighting access to water, train reseptancies, and lighting and billing and billing and billing and billing and billing and the committee is low afficial it is for walkers and bless to locate and the committee is low afficult it to the Old Comment Trailing and	
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Transportation Inventory and Analysis

Knowledge of the transportation systems in and around a community is critical for sustainable transportation enhancement planning. Vinton's transportation system includes roadways, sidewalks, and recreational trails.

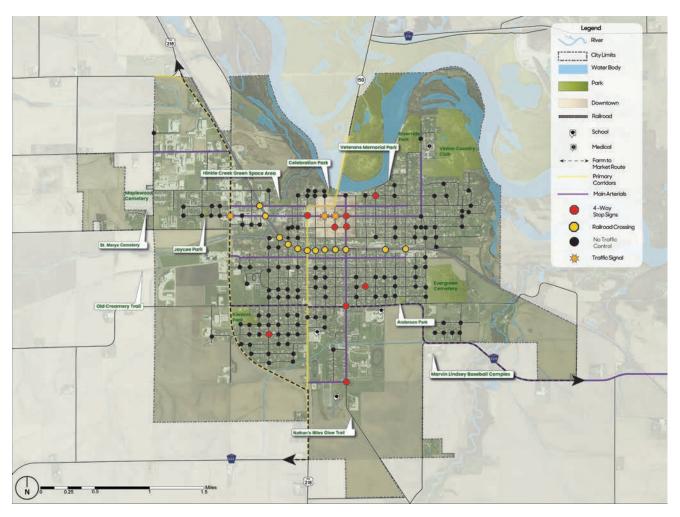
The Vinton visioning design team, along with representatives from the steering committee, met in mid-April 2023 with the Benton County Engineer, the lowa Department of Transportation District Planner and a representative from Benton County Economic Development to discuss future improvements planned by the various agencies as well as to identify transportation-related issues of which the design team should be aware. City staff were also present at the meeting, including the city administrator, city clerk, public works director, and both the director and assistant director of the parks department.

Hwy. 218 and Hwy. 150 are both state highways and both were mentioned numerous times during the community focus groups as routes that needed enhanced pedestrian access to improve accessibly and connectivity. Nathan's Miles Glow Trail, the Old Creamery Trail, the walkway in Celebration Park, and the 13th Street sidewalk were noted by community members as being community assets.

The map on this board identifies the intersections where there is no traffic control (stop or yield signs). The lack of traffic control can be confusing to drivers - especially those drivers that are inexperienced - as to who has the right-of-way.



The Highway 218 corridor lacks efficient branded way-finding, pedestrian connectivity, safe and designated pedestrian crossings.



Map illustrating existing traffic control measures and the primary roadway in Vinton



The map on the next page graphically illustrates the existing posted speed limits, the lowa Department of Transportation's (IDOT) Average Daily Traffic (ADT) count, and the intersections of concern and/or where visibility is an issue as noted by community members.

The ADT is taken from the IDOT's ADT interactive website. The traffic count data provides valuable information to better understand the vehicular circulation throughout the community. This, in turn, further explains various transportation related issues identified by the community members during the focus group sessions and design workshop and allows for the development of site specific and suitable transportation enhancements that help address the needs identified by the community.

Posted speed limits are important because the vehicle speed impacts the type of design tools that are most appropriate for providing successful traffic calming measures, determining readable text on way-finding signage and enhancing pedestrian and motorist safety.

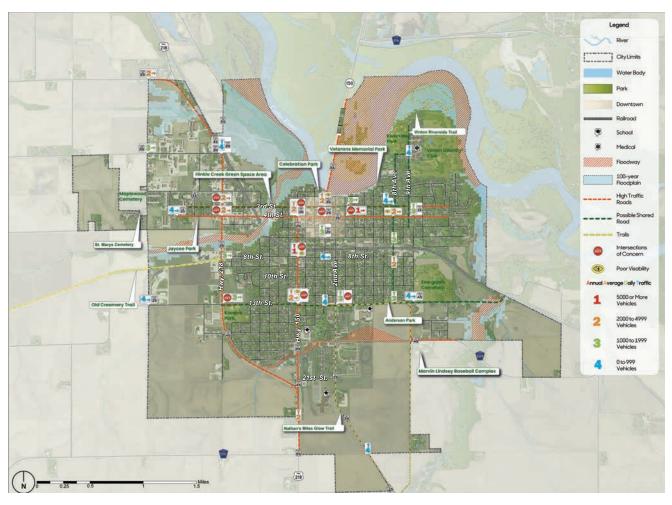
Traffic control is an important element in traffic calming. Ultimately, successful traffic control cannot rely solely on tangible elements like the enhancements proposed on the following boards, there also needs to be enforcement of the speed limits.



Uncontrolled intersections like this one at 4th St. & 9th Ave. confuse motorists and contribute to higher speeds.



Incomplete sidewalk segments, sidewalks in ill-repair, and lack of ADA accessibility prevent safe pedestrian circulation.



 $\textit{Map showing the existing traffic conditions: posted speed liits, Average Daily Traffic count, and intersections of concern$



Programming Objectives

The Programming Objectives (goal setting) meeting is a critical component in the development of a successful project. Setting and prioritizing goals allows us to focus our efforts and resources more effectively to help the community develop a vision for Vinton. The design team met with Vinton's visioning committee to discuss its goals. The steering committee members presented to the design team their interpretations of the data presented in the transportation assets and barriers board, and bioregional information.

The nominal group technique process was used for this meeting. Through this method, the committee identified goals and values based on information from the assessments. Each committee member also included reasoning for improvements around town and highlighted specific needs for areas of improvement. These objectives and desired improvements were recorded during an open discussion, followed by a vote to prioritize the major themes presented during the meeting.

The landscape architecture design team organized the themes for the city of Vinton using the goals and desired improvements identified by the steering committee during the discussion, giving greater weight to those goals receiving more votes and common ideas presented multiple times. The chart on board 5, as well as the following, reflect a representation of the outcomes of the goal-setting process - the what, where, and why.

What, Where and Why?

Community Values / Themes Based on Assessments



Trail Extension + Enhancements

Goals:

- Expand trail system network for greater local and regional connectivity
- Enhance existing features
- Improve connectivity within town, including along main corridors

WHAT Exactly and WHERE?

- Create a recreational trail that loops in and around the city linking public parks, the schools, hospital, commercial districts, the Old Creamery Trail and the Glow Tail, and extends extends beyond the city limits to connect to the regional Cedar Valley Nature Trail system
- Enhance user safety and comfort by adding site amenities such as trees, benches, and lighting

WHY Change Anything?

- Encourage physical activity
- Enhance recreational opportunities
- Improve the user's experience and comfort
- Create a destination that is functional, aesthetic, and draws visitors



Community Values / Themes Based on Assessments



Connectivity & Accessibility

Goals:

- Achieve ADA standards of accessibility
- Improve walkability
- Provide safe and accessible routes to community destinations, businesses

WHAT Exactly and WHERE?

- Make all sidewalks are ADA compliant, well drained, the appropriate width for use and location, level, complete, and in good repair
- Construct a sidewalk connection between Celebration Park and the downtown on the west side of Hwy. 150
- Prioritize ADA compliance and 6-foot width (5-foot minimum) of sidewalks along the following streets and corridors: 3rd St., 4th St., W. 5th St., 13th St., E. 21st St./2nd Ave., Hwy. 218, C Ave, 8th Ave., and 9th Ave. (E. 3rd St. to hospital)

WHY Change Anything?

- Link destinations in town that are not connected to safe pedestrian routes
- Encourage more physical activity
- Supportive infrastructure would eliminate the need for people to walk in the streets and in the grass along roadways



Safety & Traffic-Calming/Control

Goals:

- Enhance street intersections
- Improve traffic control
- Slow vehicular traffic
- Provide safe pedestrian road crossings
- Create safe routes to school
- Repair deteriorated roadways

WHAT Exactly and WHERE?

- Provide safe pedestrian street crossings with ADA compliant ramps on all streets prioritizing the following corridors: Hwy. 218, C Ave., 2nd Ave., 8th Ave., 9th Ave., 3rd St., 4th St., 9th St. (AmeriCorp to Hwy. 218), and 13th St.
- Install high visibility crossings at the following intersections: Hwy. 218 & 3rd St., 4th St., 9th St., and 13th St; 2nd Ave. & 13th St; C Ave. & 3rd St., 4th St., 13th St., and W. 21st St.; 9th Ave. & 3rd St.; Hwy. 150 & 1st Ave. and 2nd St.; and 8th Ave. & 3rd St. and 13th St.
- Implement traffic control measures at uncontrolled intersections, including intersections in "Old Vinton", along most north-south streets (including C Ave. & 8th Ave.) and on 6th St. and 13th St.
- Utilize traffic calming methods to reduce the speed of vehicles along C Ave., 1st Ave., 2nd Ave., 8th Ave., Hwy. 218, 3rd St., 8th St. and 9th St.
- Sidewalk Program: Update the sidewalk standards, effectively promote the city's reimbursement program, and enforce the sidewalk ordinance

WHY Change Anything?

- Improve safety for pedestrians, cyclists, and motorists
- Improve vehicular and pedestrian circulation
- Enhance the aesthetics of the community
- Keep roadways, sidewalks, and trails in good repair



Community Values / Themes Based on Assessments



Community Identity

Goals:

- Guide visitors to key places
- Clearly and uniformly identify community destinations
- Direct passersby and help them navigate to points of interest throughout the city
- Enhance user comfort
- Reduce "cluttered" signage
- Reinforce city branding efforts

WHAT Exactly and WHERE?

- Incorporate community caps that reinforce identity (branding) of Vinton into way-finding signage
- Reduce the signage along Hwy. 218 and throughout town by consolidating messages onto one sign and establishing at appropriate locations
- Way-finding signage with placement focused along primary and secondary corridors: 3rd St., 4th St., 13th St., E. 21st St./2nd Ave., Hwy. 218, C Ave, 8th Ave., and 9th Ave. (E. 3rd St. to hospital)

WHY Change Anything?

- Direct visitors to where you want them more efficiently
- Allow people to quickly identify public places
- Destination signage exposes visitors to places they might otherwise miss, thus encouraging extended stays
- Well maintained signs, transportation corridors, and infrastructure, reassure visitors that they are safe and on the right path
- Consolidate messages onto fewer signs and improve the visual environment
- Consistent graphics in way-finding signage create a unified and organized look
- Brand-supportive way-finding celebrates the community's unique character and creates a unified, memorable experience for visitors
- When branding is supported throughout the community, residents feel a stronger sense of place and take pride in knowing they are part of a unique community

Community Values / Themes Based on Assessments	Broad-Based Outcomes and Goals	WHAT Exactly and WHERE?	WHY Change Anything?
Connectivity & Accessibility	Achieve ADA standards of accessibility Improve walk-ability Provide safe and accessible routes to community destinations, businesses and public buildings	 Make all sidewalks are ADA compliant, well drained, the appropriate width for use and location, level .complete, and in good repair. Construct a sidewalk connection between Celebration Park and the downtown on the west side of Hwy, 150 Prioritize ADA compliance and 6-foot width (5-foot minimum) of sidewalks along the following streets and corridors. 3rd St, 4th St, W. 5th St, 13th St, E. Z.1st St/2nd Ave., Hwy, 218, C. Ave, 8th Ave., and 9th Ave. (E. 3rd St, to hospital) 	Link destinations in town that are not connected to safe pedestrian routes ADA-compliant sidewalks would provide the opportunity for all user groups to travel safely throughout Vinton Encourage more physical activity Supportive infrastructure would eliminate the need for people to walk in the street
Community Identity	Guide visitors to key places Clearly and uniformly identify community destinations Direct passersby and help them navigate to points of interest throughout the city Enhance user comfort Reduce 'oluttered' signage Reinface city branding efforts	Incorporate community caps that reinforce identity (branding) of Vinton into way-finding signage Reduce the signage along Hwy, 218 and throughout town by consolidating messages onto one sign and establishing at appropriate locations Way-finding signage with placement focused along primary and secondary corridors, 314 St., 4th St., 1218, 1218, 1218,	Get visitors to where you want them more efficiently Allow people to quickly identify public places Destination signage exposes visitors to places they might otherwise miss, thus encouraging extended stays Well maintained signs, transportation corridors, and infrastructure, reassure visitors that they are safe and on the right path Consolidate messages onto fewer signs and improve the visual environment Consistent graphics in way-finding signage create a unified and organized look Brand-supportive way-finding celebrates the
			community's unique character and creates aunitied, memorable experience for vistors When branding is supported throughout the community, residents feel as tronger sense of place and take pride in knowing they are part of a unique community
Trail Extension + Enhancements	Expand trail system network for greater local and regional connectivity Enhance existing features Improve connectivity within town	Construct a recreational trail that loops around the city, links to the Old Greamery Trail and the Glow Trail, and extends beyond the city limits to connect to the Cedar Valley Nature Trail system Enhance user safety and comfort by adding site amenities such as trees, benches, and lighting	Encourage physical activity Enhance recreational opportunities Improve the user's experience and comfort Connect all existing trails to create a larger unified trail network
	Enhance street intersections Improve traffic control Slow vehicular traffic Provides are pedestrian road crossings Create safe routes to school Repair deteriorated roadways	Provide safe pedestrian street crossings with ADA complant ramps on all streets prioritizing the following corridors: Hwy, 218, C Ave, 2nd Ave, 8th Ave, 9th Ave, 3nd St., 4th St., 9th St. (AmeriCorpto Hwy, 218) and 13th St. Installingh visbility crossings at the following intersections: Hwy, 218 & 3nd St., 4th St., 9th St., and 13th St. 2nd Ave, & 13th St. C Ave, & 3nd St., 4th St., 13th St., and W. 21st St.; 9th Ave, & 3nd St.; Hwy, 150 & 1st Ave, and 2nd St.; and 8th Ave, & 3nd St. and 13th St.	Improve safety for pedestrians, cyclists, and motorists Improve vehicular and pedestrian circulation Erhance the aesthetics of the community Keep roadways, sidewalks, and trais in good repair
Safety & Traffic -Calming/Control		 Implement traffic control measures at uncontrolled intersections, including intersections in 'Old Vinton', along most north-south streets (including C Ave. & 8th Ave.) and on 6th 8t. and 13th 8ts. Willize traffic calming methods to reduce the speed of vehicles along C Ave., 1st Ave., 2nd Ave., 8th Ave., Hwy. 218, 3rd St., 8th St. and 9th St. Sidewalk Program: Update the sidewalk standards, effectively promote the city's city's reimbursement program, and enforce the sidewalk ordinance 	



Community Concept Plan

The concept master plan shows the proposed location for various enhancements ("projects") that are showcased in the visions illustrated on the project concept boards. These concepts represent potential design solutions to various challenges and desires related to Vinton's transportation system that residents identified throughout the visioning process. The icons shown on the plan represents the enhancements that provide solutions to meet one or more of each specific value/theme detailed on Board 5 (see previous page) with the same icon. This plan and the enhancements illustrated in th set of project concept boards identify opportunities for effective placemaking.

Placemaking

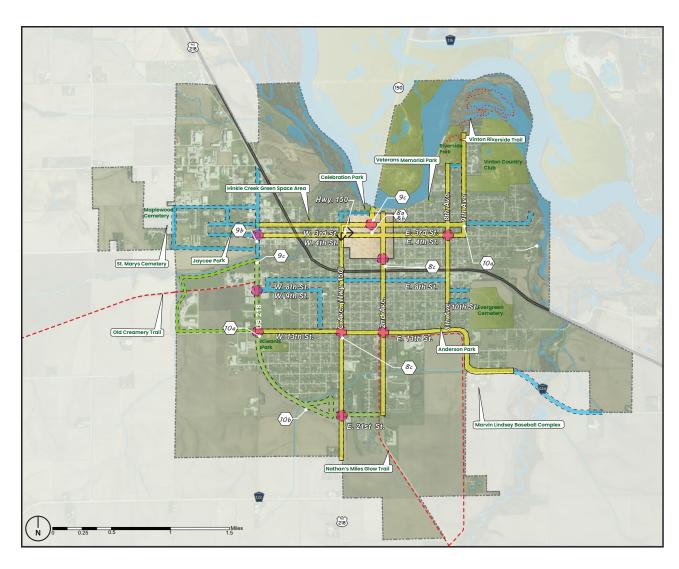
Perhaps one of the best definitions of placemaking is from Wikipedia: "Placemaking is a multi-faceted approach to the planning, design and management of public spaces. Placemaking capitalizes on a local community's assets, inspiration, and potential, with the intention of creating public spaces that improve urban vitality and promote people's health, happiness, and well-being....Good placemaking makes use of underutilized space to enhance the urban experience at the pedestrian scale to build habits of locals."

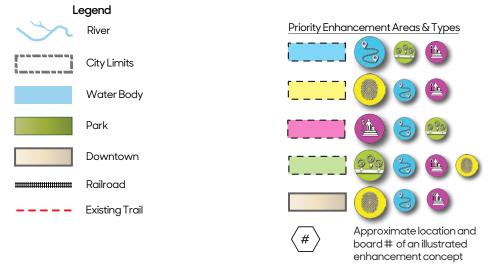
What, Where and Why?

As can be seen on the concept plan and in the concepts that follow, a project designed to address one concern has the potential to improve and/or solve other issues. As an example, enhancements that improve connectivity and accessibility can aid in strengthening community identity and improving safety and traffic control.

Adopting and utilizing a "complete streets" approach to planning, designing, building, operating, and maintaining streets enables safe access for all user types, including pedestrians, bicyclists, and motorists of all ages and abilities. The visions shown on the following boards were created following the complete streets methodology as part of placemaking efforts. For a more detailed master plan showing routes for different types of trails, as well as the location for highest priority ADA-compliant sidewalks, refer to the pedestrian circulation plan shown on Board 9a.









Project Scopes and Construction Costs

Opinion of Probable Construction Costs

On the following pages are cost opinions with estimated materials, quantities, and unit costs, which are all based on the concepts illustrated in this feasibility report and the associated concept design boards. These cost opinions are intended to be used for preliminary budgetary purposes only, and will need to be refined and updated as the project scope is defined and the preliminary design process begins. Unless otherwise specifically stated, the unit costs provided in the cost opinions are based on recent competitive let bids for comparable work items that are anticipated to be part of the proposed concepts. These bid costs include furnishing all materials, equipment, and the labor necessary to complete the work.

The quantity take-offs shown on the cost opinions were used to calculate and quantify the amounts for each line item and are shown to give a general idea as to the anticipated project scope. The quantities used were based on the associated conceptual design, and assumptions made as to quality, existing elevations/grades, subsurface conditions, etc. A topographic site survey should be completed prior to the design process and preparation of construction documents in order to validate and verify the items and quantities shown in these cost opinions.

Some factors that affect the cost of construction projects, and which the committee should be aware of are:

- The scope of work, which defines the extent and quality of the project.
- The type of project, which determines the design, materials, and methods of construction
- The location, which influences the land acquisition, permits, site conditions, and regulatory requirements
- The schedule, which affects the inflation factor, the availability of labor and materials, and the project duration
- The size and complexity of the project, which impacts the construction costs due to what types of laborers and trades are needed, whether special equipment is required, whether project elements are all standard or there is some customization
- The city, regulatory, or funding requirements for the project and/or contractor, which impacts the construction costs due to various things such as bonding and insurance requirements, warranties, or special methods and/or other criteria.

While the costs are based on publicly let and bid projects, costs for projects can decrease with donated materials, reduced cost materials, and volunteer labor, as appropriate for projects and/or funding requirements. Phasing of projects can also be utilized to decrease the immediate construction costs incurred and to better fit into budgets.



Costs Based on Percentages

The items listed in the cost opinion as percentages of project costs are budgetary place holders.

The Miscellaneous costs (Erosion & Sediment Control, Temporary Traffic Control, and Mobilization) will be dependent upon the final scope of work and regulatory and/or funding requirements that may be required for the project. These costs normally will not be shown or bid as a percentage, but instead as line items with quantities and unit prices and/or lump sums.

The Contingency Allowance is included to cover items that are undefined or are typically unknown early in the planning phase of a project. This contingency is to cover construction-related costs and does not account for the items listed below as not being included in the cost opinions.

The Deign and Engineering Allowance, while shown as a percentage of construction cost can vary greatly and will be dependent upon the final scope of services and project scope. The fee is generally not based on a percentage of project cost, but instead is based on the designer's estimate of effort (time and materials) that they anticipate will be required on their part to perform the services agreed to for the project scope.

Not Included in Cost Opinions

The following are not part of the cost opinions

- · Easement and right-of-way acquisition
- · Permitting, inspection, or construction management
- · Surveying, geotechnical investigation, documentation, or mitigation
- · Special site remediation
- · Utilities and/or their adjustments and modifications (utilities include electrical, storm sewer, sanitary, water, cable, telephone, and electrical)
- · Special site remediation
- · Escalation
- · The cost for ongoing maintenance

The quantity for decorative lighting is not included (TBD) in the varous estimates because the spacing of them (which determines the quantity) is dependent upon a number of factors that influence the quantity; some of these factors include the amount of coverage and brightness desired.

Abbreviations Used

Abbreviations used in the opinions of probable cost include:

AC= acre AL= Allowance CF= cubic foot CY= cubic yard EA= each LF= linear foot LS= lump sum SF= square foot

SY = square yard TBD = to be determined



Summary of Project Costs

Following is a summary of the estimated total opinion of costs for the various project concept designs proposed through Vinton's participation in the ILR's community visioning program and illustrated on boards 6 through 10, as well as in this report.

The breakdown of the individual cost estimates that make up the summary are included on the following pages in the sections that discuss each specific project.

PROJECT SUMMARY: OPINION OF PROBABLE CONSTRUCTION COST	Summer 2023
Description	Estimated Totals
PROJECT	
Community Identity (Board #7): Branded Banners, Decorative Lighting, Way-finding, Branded Street Signs	TBD
Safety & Traffic Calming/Control (Board #8a-8b): Hwy.150/3rd St. & 1st Ave. Intersection W/ Option 1	\$ 345,000.00
Option 1: Downtown Gateway Monuments (Pair)	\$ 67,000.00
Option 2: Downtown Gateway Monuments (Pair)	\$ 45,000.00
Safety & Traffic Calming/Control (Board #8c): 13th St. & C Ave. (Hwy. 150) Intersection	\$ 42,000.00
Safety & Traffic Calming/Control (Board #8c): 2nd Ave. & 6th St. Instersection	\$ 66,000.00
Connectivity & Accessibility (Board #9a): Pedestrian Circulation	TBD
Connectivity & Accessibility (Board #9b): Hwy. 218 and 4th Street Enhancements	\$ 291,000.00
Connectivity & Accessibility (Board #9C): Hinkle Creek Crossing at Hwy. 218 (K Ave.)	\$ 271,000.00
Connectivity & Accessibility (Board #9C): Downtown Connection to Celebration Park	\$ 124,000.00
Trail Extension + Enhancements (Board #10a): 9th Ave. & 3rd St. Enhancements	\$ 516,000.00
Trail Extension + Enhancements (Board #10a): Hwy. 218 and 13th St. Enhancments	\$ 232,000.00
Trail Extension + Enhancements (Board #10b): Paved Shoulder	TBD
Trail Extension + Enhancements (Board #10b): Separated Trail	\$1,841,700.00
Total Enhancement Estimates	\$ \$3,728,700.00

Design Expertise Recommended

Projects in their entirety, or portions of them may require help beyond the capability of the Vinton Visioning Committee, available city staff, and/or volunteers. The proposed projects may require one or more of the following on the project team in addition to a landscape architect. The following may be added onto the project team as deemed appropriate by the landscape architect and agreed to by the contracting authority: landscape architect, surveyor, civil engineer, structural engineer, and electrical engineer.

For any portion of a proposed project within or directly adjacent to the public right-of-way of a state highway will require coordination of the project with the lowa Department of Transportation (IDOT) and possible permitting from IDOT. For any project within or directly adjacent to the public right-of-way of a county highway will require coordination of the project with the Benton County Engineer, and possible permitting from the county. Projects that will have an impact on a drainage ditch, stream, or other aquatic resource, may require coordination and permitting with the US Army Corps of Engineers, lowa Department of Natural Resources, and US Fish and Wildlife Services. Projects disturbing more than 1.0 Acres will generally require an NPDES permit.

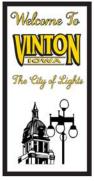
Community Identity

Community Identity

An important component of community identity is the concept of "way-finding" and the need to provide safe, easy, efficient movement and circulation of vehicular and pedestrian traffic (particularly visitors and tourists) into, through and within an urban area. Way-finding is more than simply directional signage that guides people to a certain attraction or destination. Comprehensive way-finding systems include signage, maps, symbols, colors, as well as physical design components such as lighting style, banners, and the design of transportation corridors (i.e., streets, sidewalks, right-of-way treatment, and adjacent uses).

Creating an effective way-finding system requires that all elements of the system, including color palette, styles, signage, and design details, are thoughtful and methodical. This and the following boards illustrate the proposed concepts that are intended to aid in strengthening Vinton's way-finding system while providing solutions to other needs identified by the community.

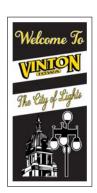
Branded way-finding catches people's attention and embeds your community's identity in their minds, along with successfully guiding travelers through town on routes that you want them to take, making way-finding systems a smart investment for economic growth and for attracting visitors.



Option 1a



Option 1b



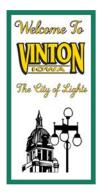
Option 1c



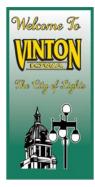
Option 1d



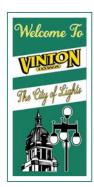
Option 1e



Option 2a



Option 2b



Option 2c



Option 2d



Option 2e

Branded banners for decorative lighting





Decorative lighting with banners proposed for major corridors, including Hwy. 218, C Ave., and 3rd & 4th St. from Hwy 218 to downtown. The lights will include pedestrian & vehicular combination, vehicular only, and pedestrian only, as shown above - the type used will depend on the location.

Decorative Lighting and Banner Design Highlights

Decorative Lighting

- The decorative light post style and color are to match the existing downtown decorative lighting.
- Down-lighting is proposed to minimize light pollution; the lighting fixture replicates the general style of the downtown decorative lighting.
- A round LED light bulb for the fixture will replicate the round light bulbs used in the } downtown decorative lighting.

Branded Banners

- Two options for color schemes are proposed: Option 1 is black, gold, and white (school colors) and Option 2 is green, gold, black, and white (way-finding signage colors). The Option 2 color palette is recommended because it creates a more unified appearance since it is more integral with the branded way-finding signage colors creating the redundancy necessary to improve visual connectivity and strength community branding.
- Graphics used are all elements of the city's logo.

Directional Signs



Branded way-finding signage: Directional Signage, Park Identity Signage & Street Signage

Branded Way-finding Signage Design Highlights

Directional Signage

- Color of sign panel (B) and community cap (A): lowa DOT (IDOT) standard green.
- Community cap (A): Both options shown incorporate the city's existing logo and the leaves of popular trees (oak and maple) that are found in the city's parks and public land.
- Sign posts (C): IDOT-compliant metal breakaway posts, color to match light posts.

Park Identity Signage

- Color of sign: IDOT standard green, with a yellow border (logo yellow).
- Integrate the tree from the city park logo with the stylized "Vinton" from the city's logo; the use of the same colors and stylized name help create a unified signage system.

Street Signage

- Color of sign: IDOT standard green, with white border.
- Replicate the curved top from the directional signage on top of street sign with the stylized "Vinton" from the city's logo in yellow.
- Some options incorporate the streetlights from the city logo
- Sign posts: IDOT compliant metal breakaway posts



Design Expertise Recommended

Projects in their entirety, or portions of them may require help beyond the capability of the Vinton Visioning Committee, available city staff, and/or volunteers. For the Community Identity improvement project the visioning committee should expect to engage the services of a landscape architect and electrical engineer.

The committee should also expect that portions of this project will need to be coordinated with the lowa Department of Transportation (lowa DOT) District Engineer and the County Engineer during the design process. Permitting will also more than likely be required by the lowa DOT.

Opinion of Probable Construction Cost

Community Identity (See Board #7 for Visual)	Sur	mmer 2023
Description	Bu	Est. Idgetary
Individual Items*		
Branded Banners		
- Branded Banners, 2' W x 4' L, budgetary number @ Cost (City Purchase, No Install, Not Bid)	\$	160.00
Decorative Lighting	Ė	
- Pedestrian Only Assembly budgetary number @ Cost (City Purchase, No Install, Not Bid)	\$	3,000.00
- Vehicular Only Assembly budgetary number @ Cost (City Purchase, No Install, Not Bid)	\$	7,500.00
- Pedestrian & Vehicular Combo Assembly budgetary number @ Cost (City Purchase, No Install, Not Bio	\$	9,500.00
Vehicular Directional Way-Finding Signage		
- Single Destination Sign Allowance, Each	\$	2,200.00
- Two Destination Sign Allowance, Each	\$	2,800.00
- Three Destination Sign Allowance, Each	\$	3,200.00
Branded Street Signs		
- Branded Street Sign Allowance @ Cost (City Purchase, No Install, Not Bid)	\$	100.00
- Break-Away Post @ Cost (City Purchase, No Install, Not Bid)	\$	125.00
Park Identity Signage (size varies due to park name)		
- Celebration Park Allowance	\$	2,200.00

^{*} Individual Items are based on City's direct purchase cost from manufacturer unless otherwise specifically stated. Items that are shown as being purchased by the city do not include any installation cost.

The Temporary Traffic Control, Erosion & Sediment Control, Mobilization, Contingency, and Design & Engineering Allowances are not included in any of the prices shown.

Community Identity

and the need to provide safe, easy, efficient movement and circulation of vehicular people to a certain attraction or destination. Comprehensive way-finding systems An important component of community identity is the concept of "way-finding" and pedestrian traffic (particularly visitors and tourists) into, through and within an urban area. Way-finding is more than simply directional signage that guides include signage, maps, symbols, colors, as well as physical design components such as lighting style, banners, and the design of transportation corridors (i.e., streets, sidewalks, right-of-way treatment, and adjacent uses).

Creating an effective way-finding system requires that all elements of the system, are intended to aid in strengthening Vinton's way-finding system while providing including color palette, styles, signage, and design details, are thoughtful and methodical. This and the following boards illustrate the proposed concepts that solutions to other needs identified by the community. Branded way-finding catches people's attention and embeds your community's identity in their minds, along with successfully guiding travelers through town on routes that you want them to take, making way-finding systems a smart investment for economic growth and for attracting visitors.







Welcome To

Welcome To

A round LED light bulb for the fixture will replicate the round light bulbs used in

the downtown decorative lighting.

Branded Banners

Down-lighting is proposed to minimize light pollution; the lighting fixture

replicates the general style of the downtown decorative lighting.

The decorative light post style and color are to match the existing dow

decorative lighting. Decorative Lighting

Decorative Lighting and Banner Design Highlights



Two options for color schemes are proposed: Option 1 is black, gold, and white (school colors) and Option 2 is green, gold, black, and white (way-





Mound

1

·I°

3rd Street (P) (B) Vinton-† Shellsburg Schools Community Cap Option 2 Trail Head → **Glow Trail** 水 龍 Vinton **Directional Signs** Schools Schools Glow Trail Vinton-/inton

- I

Branded way-finding signage: Directional Signage, Park Identity Signage & Street Signage

Branded Way-finding Signage Design Highlights

above - the type used will depend on the location

Decorative lighting with banners proposed for major corric & 4th St. from Hwy 218 to downtown. The lights will include; vehicular only, and pedestrian only, as shown above - the t

- Color of sign panel (B) and community cap (A): lowa DOT (IDOT) standard
- Community cap (A): Both options shown incorporate the city's existing logo and the leaves of popular trees (oak and maple) that are found in the city's parks and public land.
- Sign posts (C): IDOT-compliant metal breakaway posts, color to match light

Park Identity Signage

- Integrate the tree from the city park logo with the stylized "Vinton" from the Color of sign:IDOT standard green, with a yellow border (logo yellow).
- city's logo; the use of the same colors and stylized name help create a unified signage system.

Street Signage

necessary to improve visual connectivity and strength community branding.

Graphics used are all elements of the city's logo.

tranded banners for decorative lighting

with the branded way-finding signage colors - creating the redundancy

because it creates a more unified appearance since it is more integral

finding signage colors). The Option 2 color palette is recommended

- Color of sign: IDOT standard green, with white border. Replicate the curved top from the directional signage on top of street sign with the stylized "Vinton" from the city's logo in yellow.
 - Some options incorporate the streetlights from the city logo
 - Sign posts: IDOT compliant metal breakaway posts

Flenker Land Architects Consultants, LLC

LA: Meg Flenker, PLA, CPESC, CPSWQ Interns: Trevor Smith, Mikky Ojha



Community Identity



Safety and Traffic Control/Calming

Heavy and speeding traffic is of great concern to the adults in Vinton. Residents cited uncontrolled intersections as contributing to speeding, especially along main routes to and from the hospital, downtown, and schools. Heavy traffic along these routes and the two state highways (Hwy. 218 and Hwy. 150), along with the speeding, creates conditions that make pedestrians feel uncomfortable and threatened crossing the streets.

The primary purpose of traffic-calming and traffic-control is to support the livability and vitality of residential and commercial areas through improvements in non-motorist safety, mobility, and comfort by reducing automobile speeds. Traffic calming is accomplished through the use of physical measures such as raised intersections, raised crosswalks, bumpouts, hardscape and vertical elements, including vegetation and structures. Numerous types of context-sensitive solutions for traffic calming measures were shown at the public design workshop, along with different crosswalk treatments. The methods and treatments preferred by workshop participants and the Vinton community (as represented by the visioning steering committee) are shown on this and the following boards.

Traffic control is accomplished primarily through operational procedures, rules and laws, and physical components such as traffic signs, pavement markings, traffic lights, and advance-warning signs and devices. Consistent enforcement of rules and laws (i.e., speed limits) is an essential component to effectively addressing the safety and traffic calming/control in Vinton. Traffic calming/control elements shown on the following boards include: bump-outs, narrow streets, raised crosswalks, flashing warning lights and regulatory signage, street trees, decorative lighting, plantings, and vertical gateway markers.

Hwy. 150/3rd St. & 1st Ave. Intersection

This intersection is significant to Vinton because it is one of the primary gateways into the historical downtown and is also part of the entryway corridor to the city. Unfortunately, it does not garner the attention of visitors that it needs in part because of the uncontrolled traffic flow and speeding traffic traveling from the north via Hwy. 150 and to the east via Hwy. 150/3rd St., and in part because of its lackluster appearance.

Board 8a, along with board 8b, illustrate proposed improvements for this intersection to help with traffic calming and improve safety and user experience, as well as create more inviting and noteworthy gateways to the city and downtown.

Board 8a illustrates via section views and multiple image edits what the proposed improvements noted and shown in plan view on board 8a would look like. The images show how the various options proposed for gateway signage and crosswalk treatment change the character of the downtown.



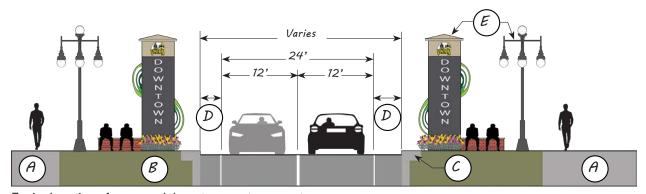
Also addressed on board 8a are the critical design considerations that are necessary to maintain safe and proper intersection visibility that the design team took when developing the concepts. As can be seen, both horizontal and vertical clearances were considered in terms of visibility. The lowa DOT provides design guidance for visibility requirements that are based in part by speed, traffic count, and geometric layout of the roadway.

Downtown Gateway Monument

Two concepts are illustrated on this board. Option 1 is the artistic option with a decorative metal serpentine detail extending from the sides of the monument in various shades of green that draw from the community identity color palette. Option 2 represents a basic and simplified design.



Aerial of existing conditions

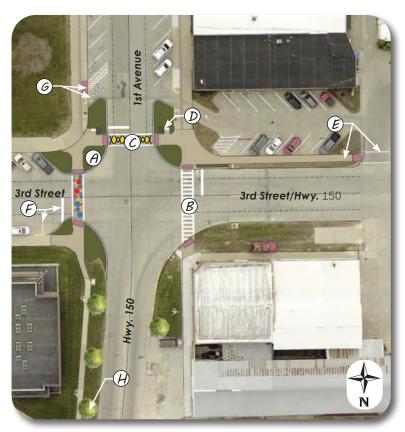


Typical section of proposed downtown gateway entry

Typical Section Notes

- (A) Existing sidewalk enhanced/modified as applicable for ADA accessibility and connectivity
- B Landscaped bump-out
- C Curb and concrete planting edge
- (D) Excess road beyond driving lane, width varies
- $\stackrel{\frown}{\mathcal{E}}$ Existing downtown lighting & proposed monument





Concept Option 1: Monument option 1 & artistic crosswalk



Concept Option 2: Monument option 1 & decorative crosswalk

Intersection Highlights

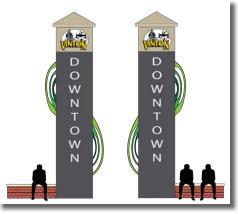
(G)

- Landscaped bump-outs enhance safety, streetscape aesthetics, user
 experience and both vehicular and pedestrian circulation while slowing
 traffic via the resulting narrowing of the street (street lane widths
 will still be wider than standard street lane widths as can be seen in the plan
 views and typical section)
- B High-visibility painted crosswalks at designated pedestrian crossings along Hwy. 150 & Hwy. 218 combined with crosswalk warning signs alerting motorists in advance of the crosswalks.
- © Decorative pedestrian crosswalks in the downtown to enhance safety and aesthetics, as well as to provide the opportunity to create an ambiance that showcases Vinton's unique characteristics.
- (D) Gateway monuments to capture the attention of passersby and intrigue them to visit, while also contributing to the downtown's ambiance.
- (E) Widened and ADA-compliant sidewalks and painted crosswalks along 3rd St. corridor to increase pedestrian safety, strengthen connectivity to key destinations and Hwy. 218, and to reinforce the importance of the 3rd St. corridor.
- Painted and maintained pavement markings provide clear direction and delineation as to the location of pedestrian crossings, where motorist stop, where they can park, and how much space is allowable for parking.
 - ADA-compliant parking and the associated sidewalk access.
- Street trees, decorative lighting, way-finding signage, traffic control devices, and AD- compliant sidewalks assist in traffic calming/control while physically and visually linking the downtown to Celebration Park, creating a more
 - and visually linking the downtown to Celebration Park, creating a more aesthetic gateway, and enhancing the safety and user experience of both the motorist and pedestrian.





Photo of existing intersection from north side looking south along 1st Ave.



Downtown Monument Option 1

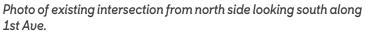


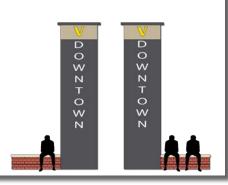
Intersection Concept Option 1: Monument option 1 & artistic crosswalk



 ${\it Intersection Concept Option 2: Monument option 1 \& decorative crosswalk}$







Downtown Monument Option 2



Intersection Concept Option 3: Monument option 2 & artistic crosswalk

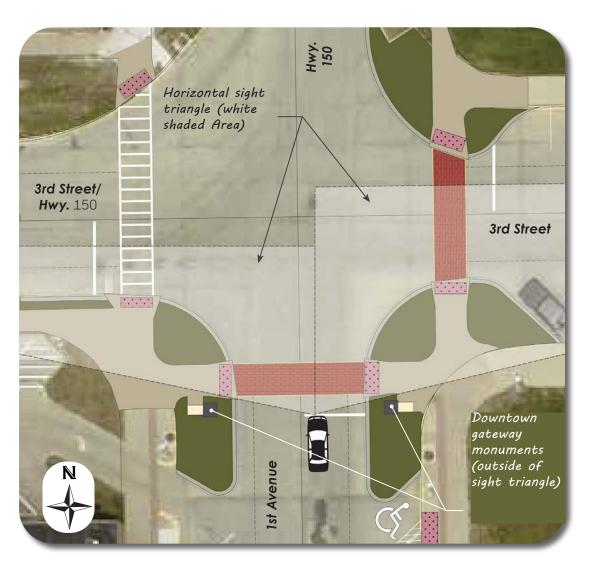


Intersection Concept Option 4: Monument option 2 & decorative crosswalk

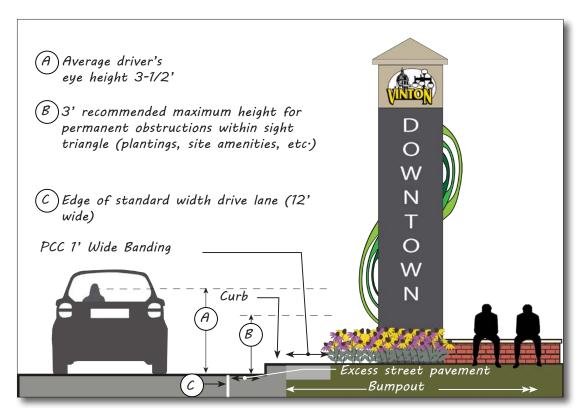


Hwy. 150/3rd St. & 1st Ave. Intersection Visibility

Good visibility (aka: sight triangle) at intersections is critical to ensure the safety of motorists and pedestrians. Iowa DOT design standards for determining this were considered, when applicable, during the development of the concepts presented on this and the other design boards. As can be seen, the gateway monument and associated seating are located outside of the sight triangle. Also of consideration is the height of items withing the triangle – such as plantings, which as a general rule should not exceed 3-foot tall – refer to typical section.



Aerial plan view of the proposed intersection enhancements and line of sight (sight triangle) based on Iowa DOT standard design criteria



Typical section of intersection enhancements based on lowa DOT design criteria regarding vertical height of elements within the line of sight



Design Expertise Recommended

Projects in their entirety, or portions of them may require help beyond the capability of the Vinton Visioning Committee, available city staff, and/or volunteers. For the **Hwy. 150/3rd St. & 1st Ave.** improvement project the visioning committee should expect to engage the services of a landscape architect, surveyor, structural engineer, civil engineer and electrical engineer.

The committee should also expect that portions of this project will need to be coordinated with the lowa Department of Transportation (lowa DOT) District Engineer and the County Engineer. Permitting may also be required by the lowa DOT.

Opinion of Probable Construction Cost

Hwy. 150/3rd St. & 1st Ave. Intersection (See Board #8	a & #8b for \	/isual						Summer 202
Est. Estimated Estimated							Estimated	
Description	Qty.	Unit		Unit Cost		Line Total		Totals
Bump-Outs & Sidewalks							\$	108,831.7
Demolition & Earthwork/Grading							\$	18,886.5
- Curb Removal	258	LF	\$	12.00	\$	3,096.00		
- Selective Removal	585	SY	\$	22.50	\$	13,162.50		
- Earth Excavation & Grading	146	CY	\$	18.00	\$	2,628.00		
Pavement							\$	52,385.0
- PCC Pedestrian Pavement, 5", Agg. Base Cse, 4"	369	SY	\$	65.00	\$	23,985.00	•	
- PCC Curb	298	LF	\$	75.00	\$	22,350.00		
- ADA Compliant Detectable Warning Panel	110	SF	\$	55.00	\$	6,050.00		
Landscaping					1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$	37,560.2
- Planting Bed Prep & Shredded Hardwood Mulch, 3"	1513	SF	\$	8.00	\$	12,104.00	-	,
- Amended Planting Mix	106	CY	\$	50.00		5,300.00		
- Landscape Plantings	1513	SF	\$	12.00	\$	18,156.00		
- Sod	1143	SF	\$	1.75		2,000.25		
Oowntown Monuments					\$	-	\$	67,000.0
Monument Option 1	1	Pair	\$	67,000.00	\$	67,000.00		•
Crosswalks							\$	15,895.0
Demolition							\$	1,305.0
- Selective Removal	58	SY	\$	22.50	\$	1,305.00		
Pavement							\$	8,700.0
- Decorative Crosswalk (3rd St. and 1st Ave.)	58	SY	\$	150.00	\$	8,700.00		
Permanent Traffic Control							\$	5,890.0
- High Visibility Painted Crosswalk (3rd St/Hwy. 150)	1	LS	\$	1,260.00	\$	1,260.00		
- ADA Painted Parking Aisle	1	LS	\$	150.00		150.00		
- Painted Stop Lines	1	LS	\$	280.00	\$	280.00		
- ADA Painted Parking Symbols	2	EΑ	\$	250.00	\$	500.00		
- ADA Parking Stall Signage	2	EA	\$	600.00	\$	1,200.00		
- Traffic Control Signage	5	EA	\$	500.00	\$	2,500.00		
Aiscellaneous							\$	38,400.0
Erosion & Sediment Control (5%)	1	LS	\$	9,600.00		9,600.00		
Temporary Traffic Control (5%)		LS	\$	9,600.00		9,600.00		
Mobilization (10%)	1	LS	\$	19,200.00	\$	19,200.00		
					Seci	tion Subtotal	\$	230,126.7
						y Allowance		69,038.0
		155					\$	44,874.7
						struction Cost		344,039.4
		т	otal	Probable Co	nnsti	ruction Cost	¢	345,000.0
			olui	Topuble C	ااوراد	ochon Cost	Y	343,000.0

Safety & Traffic Calming/Control

Heavy and speeding traffic is of great concern to the adults and from the hospital, downtown, and schools. Heavy traffic and Hwy. 150), along with the speeding, creates conditions that make pedestrians feel uncomfortable and threatened along these routes and the two state highways (Hwy. 218 contributing to speeding, especially along main routes to in Vinton. Residents cited uncontrolled intersections as crossing the streets.

Vinton community (as represented by the visioning steering The primary purpose of traffic-calming and traffic-control commercial areas through improvements in non-motorist crosswalks, bump-outs, hardscape and vertical elements, speeds. Traffic calming is accomplished through the use of physical measures such as raised intersections, raised committee) are shown on this and the following boards. ncluding vegetation and structures. Numerous types of context-sensitive solutions for traffic calming measures treatments preferred by workshop participants and the were shown at the public design workshop, along with is to support the livability and vitality of residential and safety, mobility, and comfort by reducing automobile different crosswalk treatments. The methods and

Traffic control is accomplished primarily through operational and traffic calming/control in Vinton. Traffic calming/control essential component to effectively addressing the safety elements shown on the following boards include: bumpouts, narrow streets, raised crosswalks, flashing warning procedures, rules and laws, and physical components such as traffic signs, pavement markings, traffic lights, and advance-warning signs and devices. Consistent enforcement of rules and laws (i.e., speed limits) is an ights and regulatory signage, street trees, decorative ighting, plantings, and vertical gateway markers

Typical Section Notes

(A) Existing sidewalk enhanced/modified as applicable

for ADA accessibility and connectivity

fypical section of proposed downtown gateway entry

(A)

1 A A L (a)

Hwy. 150/3rd St. & 1st Ave. Intersection

traffic traveling from the north via Hwy. 150 and to the east via Hwy.150/3rdSt, and in part because of its lackluster appearance also part of the entryway corridor to the city. Unfortunately, part because of the uncontrolled traffic flow and speeding This intersection is significant to Vinton because it is one of the primary gateways into the historical downtown and is it does not garner the attention of visitors that it needs in

calming and improve safety and user experience, as well as

improvements for this intersection to help with traffic This board, along with board 8b, illustrate proposed

In lighting & proposed monumen

Londscaped bump-out
 Curb and concrete planting edge
 Excess road beyond driving lane, width varies
 Existing downtown lighting & proposed monur

create more inviting and noteworthy gateways to the city

and downtown.



Existing aerial plan view of Hwy. 150/3rd St. & 1st Ave



Concept Option 1: Monument option 1 & artistic crosswalk



option 1 & decorative crosswalk

Intersection Highlights

- A Landscaped bump-outs enhance safety, streetscape aesthetics, user experience and both vehicular and will still be wider than standard street lane widths as resulting narrowing of the street (street lane widths pedestrian circulation while slowing traffic via the can be seen in the plan views and typical section)
- pedestrian crossings along Hwy. 150 & Hwy. 218 combined with crosswalk warning signs alerting High-visibility painted crosswalks at designated motorists in advance of the crosswalks. (9)
- provide the opportunity to create an ambiance that Decorative pedestrian crosswalks in the downtown to enhance safety and aesthetics, as well as to showcases Vinton's unique characteristics. 0
- Gateway monuments to capture the attention of passersby and intrigue them to visit, while also contributing to the downtown's ambiance.
- Widened and ADA-compliant sidewalks and painted pedestrian safety, strengthen connectivity to key crosswalks along 3rd St. corridor to increase destinations and Hwy. 218, and to reinforce the importance of the 3rd St. corridor. (P)
- Painted and maintained pavement markings provide pedestrian crossings, where motorist stop, where they clear direction and delineation as to the location of can park, and how much space is allowable for
- ADA-compliant parking and the associated sidewalk
- $\theta \text{ Street trees, decorative lighting, way-finding signage, traffic control devices, and AD-compliant sidewalks}$ and visually linking the downtown to Celebration Park creating a more aesthetic gateway, and enhancing assist in traffic calming/control while physically the safety and user experience of both the motorist and pedestrian.

Flenker Land Architects Consultants, LLC

LA: Meg Flenker, PLA, CPESC, CPSWQ Interns: Trevor Smith, Mikky Ojha



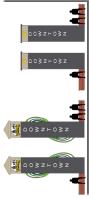
Safety & Traffic Calming/Control

Hwy. 150/3rd St. & 1st Ave. Intersection (continued) This board illustrates via section views and multiple image edits what the proposed improvements noted and shown in plan view on board 8a would look like. The images show how the various options proposed for gateway signage and crosswalk treatment change the character of the

proper intersection visibility that the design team took when and vertical clearances were considered in terms of visibility. requirements that are based in part by speed, traffic count, developing the concepts. As can be seen, both horizontal considerations that are necessary to maintain safe and The Iowa DOT provides design guidance for visibility Also addressed on this board are the critical design and geometric layout of the roadway.

Downtown Gateway Monument

extending from the sides of the monument in various shades Two concepts are illustrated on this board. Option 1 is the palette. Option 2 represents abasic and simplified design. artistic option with a decorative metal serpentine detail of green that draw from the community identity color





section Concept Option 2: Monument option 1 & decorative crosswalk

/inton

Safety & Traffic Calming/Control



Photo of existing intersection from north side looking south along 1st Ave

The visibility (aka: sight triangle) at intersections is critical to Hwy. 150/3rd St. & 1st Ave. Intersection Visibility

located outside of the sight triangle. Also of consideration is seen, the gateway monument and associated seating are which as a general rule should not exceed 3-foot tall - refer when applicable, during the development of the concepts the height of items withing the triangle – such as plantings, ensure the safety of motorists and pedestrians. Iowa DOT presented on this and the other design boards. As can be design standards for determining this were considered, to typical section.

(B) 3' recommended maximum heigh for permanent obstructions within sight triangle (plantings, site amenities, etc.)

(A) Average driver's eye height 3-1/2'

©Edge of standard width drive lane (12' wide) PCC 1' Wide Banding

Curb



Iypical section of intersection enhancements based on lowa DOT design criteria regarding vertical height of elements within the line of sight

3rd Stree

Horizontal sight triangle (white shade)

3rd Street/ Hwy. 150

ection Concept Option 1: Monument option 1 & artistic crosswalk





Aerial plan view of the proposed intersection enhancements and line o sight (sight triangle) based on Iowa DOT standard design criteria

Flenker Land Architects Consultants, LLC

LA: Meg Flenker, PLA, CPESC, CPSWQ Interns: Trevor Smith, Mikky Ojha







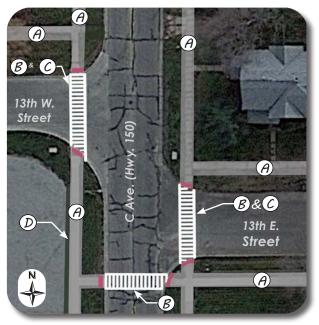
13th Street & C Ave. (Hwy. 150) Intersection

Residents identified this intersection as one of great concern due to the interaction that occurs between motorists and pedestrians. Both 13th Street and C Ave. (Hwy. 150) are heavily traveled primary corridors for motorists as well as for pedestrians, especially youth walking to and from school. The proposed concepts reduce the two existing pedestrian crossings of C Ave. (Hwy. 150) to one to minimize pedestrian and motorist interaction since there is currently no traffic control for C Ave. at this location.



Existing aerial plan view

Since Hwy. 150 is a state highway, any enhancements to the road, including traffic calming/control measures along it, need to be approved by the lowa DOT BEFORE implementation - this includes traffic signage and pavement markings.



Aerial plan view of the proposed intersection enhancements and line of sight (sight triangle) based on Iowa DOT standard design criteria

13th St. & C Ave. Intersection Concept Highlights

- Existing sidewalk enhanced/modified as applicable for ADA accessibility and connectivity
- (E) High visibility painted crosswalk & the associated crosswalk warning signs with flashing lights
- (C) Possible location for raised crosswalk
- (D) Lawn buffer between parking lot and sidewalk





Existing C Ave. (Hwy. 150) looking southerly from north side of intersection with 13th St.



Concept showing C Ave. (Hwy. 150) proposed enhancements, including branded street signs and crosswalk warning signs



Existing 13th E. St. looking easterly from east side of intersection with C Ave. (Hwy. 150)



Concept showing 13th E. St. proposed enhancement



Design Expertise Recommended

Projects in their entirety, or portions of them may require help beyond the capability of the Vinton Visioning Committee, available city staff, and/or volunteers. For the **13th Street & C Ave. (Hwy. 150) Intersection** improvement project the visioning committee should expect to engage the services of a civil or traffic engineer.

The committee should expect to coordinate this project with the lowa Department of Transportation (lowa DOT) District Engineer. Permitting may also be required by the lowa DOT.

Opinion of Probable Construction Cost

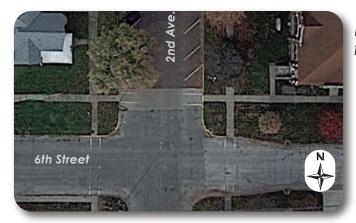
Description		Unit	Estimated Unit Cost		Estimated Line Total			Summer 2023 Estimated Totals
Crosswalks							\$	1,000.00
Permanent Traffic Control							\$	1,000.00
- Painted High Visibility Crosswalk (Hwy. 150)	1	LS	\$	750.00	\$	750.00		
- Painted Crosswalk (W. 13th St. & E. 13th St.)	1	LS	\$	250.00	\$	250.00		
Street Signage							\$	650.00
Branded Street Name Signage Only (City Purchase, Not Installed)							\$	650.00
- Branded Street Name Sign (City Purchase)	4	EA	\$	100.00	\$	400.00		
- Break-A-Way Post (City Purchase)	2	EA	\$	125.00	\$	250.00		
Flashing Beacons (City Purchase, Not Installed)							\$	21,600.00
Permanent Traffic Beacons (City Purchase, Not Installed)							\$	21,600.00
- Solar LED Flashing Beacon Amber Light W/ Crosswalk Ahead Sign	2	EA	\$	1,900.00	\$	3,800.00		
- Push Button Pedestrian Flashing Crosswalk Sign	2	EA	\$	8,900.00	\$	17,800.00		
Miscellaneous							\$	4,500.00
Erosion & Sediment Control (5%)	1	LS	\$	-	\$	-		
Temporary Traffic Control (5%)	1	LS	\$	1,500.00	\$	1,500.00		
Mobilization (10%)	1	LS	\$	3,000.00	\$	3,000.00		
					Sect	ion Subtotal	\$	27,750.00
30% Contingency Allowance							\$	8,325.00
15% Design & Engineering Allowance							\$	5,411.25
			Tot	al Probable	Cons	truction Cost	\$	41,486.25
		Ţ	otal F	robable C	onstr	uction Cost	S	42,000.00



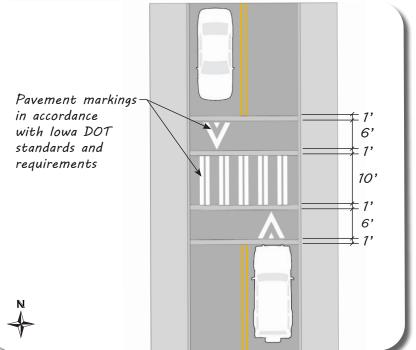
2nd Ave. & 6th St. Intersection

Fast moving traffic on a number of residential streets, including 2nd Ave., was repeatedly noted as a concern by residents. Community feedback during the design workshop indicates that raised crosswalks were one of the solutions for traffic calming that was acceptable to residents for implementation in Vinton.

The crosswalk on the north side of the 2nd Ave. & 6th St. intersection was identified as an area that would benefit from raised crosswalks. One of the questions brought up was how a raised intersection could be integrated with the existing brick-paved street to maintain the existing character of the street. While the raised intersection can be constructed with asphalt, concrete, and brick, the concept shown in this report and Board 8c is for a brick crosswalk.



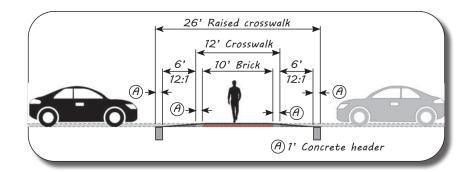
Existing aerial plan view



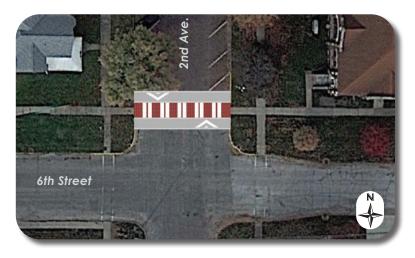
Typical raised crosswalk plan view



Typical raised crosswalk cross section



Plan view of proposed raised crosswalk with brick





Existing photo taken at intersection looking northerly along 2nd Ave.



Proposed concept showing brick crosswalk and concrete ramps



Design Expertise Recommended

Projects in their entirety, or portions of them may require help beyond the capability of the Vinton Visioning Committee, available city staff, and/or volunteers. For the **2nd Ave. & 6th St. Intersection** improvement project the visioning committee should expect to engage the services of a landscape architect, surveyor and civil engineer.

Opinion of Probable Construction Cost

2nd Ave. & 6th St. Intersection (See Board #8c for Visual	()							Summer 202
	Est.			Estimated	I	stimated		Estimated
Description	Qty.	Unit		Unit Cost		Line Total		Totals
Raised Crosswalk							\$	31,909.0
Demolition & Earthwork/Grading							\$	6,904.0
- Curb Removal	52	LF	\$	12.00	\$	624.00		
- Selective Removal	168	SY	\$	22.50	\$	3,780.00		
- Earth Excavation & Grading	1	LS	\$	2,500.00	\$	2,500.00		
Pavement							\$	22,205.0
- PCC Vehicular Pavement, 6" on Agg. Base Cse. 4"	27	SY	\$	77.00	\$	2,079.00		
- PCC Header	116	LF	\$	23.50	\$	2,726.00		
- Brick Paving (Vehicular)	580	SF	\$	30.00	\$	17,400.00		
Permanent Traffic Control							\$	2,800.
- Painted Approach Symbols	1	LS	\$	600.00	\$	600.00		
- Painted Crosswalk	1	LS	\$	800.00	\$	800.00		
- Approach Signs for Raised Crosswalk	4	EA	\$	350.00	\$	1,400.00		
idewalk Approach			Ė				\$	4,492.
Demolition & Earthwork/Grading							\$	1,237.
- Selective Removal	15	SY	\$	22.50	\$	337.50		
- Earth Excavation & Grading	1	LS	\$	900.00	\$	900.00		
Pavement							\$	3,255.
- PCC Pedestrian Pavement, 5" , Agg. Base Cse, 4"	23	SY	\$	65.00	\$	1,495.00		
- ADA Compliant Detectable Warning Panel	32	SF	\$	55.00	\$	1,760.00		
Niscellaneous			Ė				\$	7,600.
Erosion & Sediment Control (5%)	1	LS	\$	1,900.00	\$	1,900.00	-	,,
Temporary Traffic Control (5%)	1	LS	\$	1,900.00	\$	1,900.00		
Mobilization (10%)	1	LS	\$	3,800.00	\$	3,800.00		
					Co. o.	tion Subtotal	đ	44.001
							_	44,001. 13,200.
		1.50	7.0.			y Allowance	\$	•
		15%		sign & Engine				8,580.
			10	tal Probable (cons	truction Cost	\$	65,782.
		T	otal	Probable Co	onsti	ruction Cost	\$	66,000.

13th Street & C Ave. (Hwy. 150) Intersection

neavily traveled primary corridors for motorists as well as for The proposed concepts reduce the two existing pedestrian crossings of C Ave. (Hwy. 150) to one to minimize pedestrian Residents identified this intersection as one of great concern due to the interaction that occurs between motorists and pedestrians, especially youth walking to and from school. and motorist interaction since there is currently no traffic pedestrians. Both 13th Street and C Ave. (Hwy. 150) are control for C Ave. at this location.



alongit, needtobe enhancements to the road, including lowa DOT BEFORE controlmeasures approved by the traffic calming/ implementation - this includes

traffic signage and



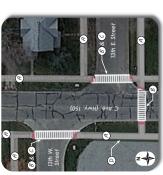




Concept showing C Ave. (Hwy. 150) proposed enhancements, including branded street signs and crosswalk warning signs

/inton

Safety & Traffic Calming/Control



Aerial plan view of the proposed intersection enhancements and line of sight (sight triangle) based on Iowa DOT standard design criteria

13th St. & C Ave. Intersection Concept Highlights (a) Existing sidewalk enhanced/modified as applicable for ADA accessibility and connectivity

 $\stackrel{\circ}{\mathscr{C}}$ High visibility painted crosswalk & the associated Lawn buffer between parking lot and sidewalk crosswalk warning signs with flashing lights © Possible location for raised crosswalk
© Lawn buffer between parking lot and s





Concept showing 13th E. St. proposed enhancement

2nd Ave. & 6th St. Intersection

solutions for traffic calming that was acceptable to residents workshop indicates that raised crosswalks were one of the ncluding 2nd Ave., was repeatedly noted as a concern by residents. Community feedback during the design Fast moving traffic on a number of residential streets, for implementation in Vinton.

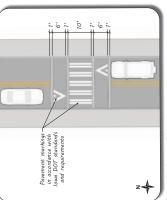
(A) 7' Concrete header

@

Typical raised crosswalk cross section

character of the street. While the raised intersection can be constructed with asphalt, concrete, and brick, the concept shown on this board is for a brick crosswalk. from raised crosswalks. One of the questions brought up intersection was identified as an area that would benefit The crosswalk on the north side of the 2nd Ave. & 6th St. was how a raised intersection could be integrated with the existing brick-paved street to maintain the existing





Flenker Land Architects Consultants, LLC

LA: Meg Flenker, PLA, CPESC, CPSWQ Interns: Trevor Smith, Mikky Ojha



ed concept showing brick crosswalk and concrete ramps





Connectivity & Accessibility

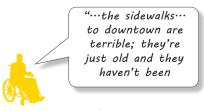
Connectivity and accessibility are two of the major transportation-related issues that impact all demographics in Vinton, as shown on the Transportation Assets and Barriers Analysis boards (see 3a-3c). Inadequate sidewalk infrastructure such as incomplete, broken, narrow, and rising sidewalks and inconsistent curb ramps, threatens user safety and limits pedestrian mobility. It also portrays a less than desirable view of the community to passersby.

Citizen focus groups identified the need to improve the sidewalk system, which was further echoed by community members participating in the public design workshop held on June 29, 2023, during the Vinton Farmers Market. Desired improvements included making the sidewalks wider, accessible and ADA compliant, complete, and connected to key destinations throughout town – refer to Board 3c.

Pedestrian Circulation

The map on board 9a and the following page, illustrates the input given by the community members and steering committee during the public design workshop, as well as that of the focus groups. In addition to an improved sidewalk system, the community would like to see an expanded trail system, designated safe routes to school, designated high-visibility crosswalks, and shared roads, as appropriate.

While the goal is to have all residential, commercial, and public areas served by an ADA-compliant sidewalk that is in good condition, the following map which is also shown on board 9a, identifies the highest priority areas.



Mobility Challenged

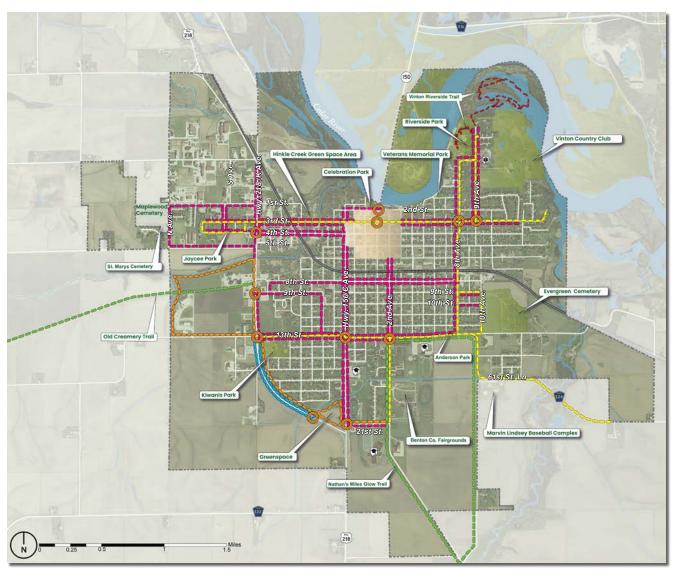




"I usually [bike] on the sidewalk [on 6th Ave] but there [are] a lot of curbs [without ramps] when I'm crossing the streets...I have to stop for a few seconds and actually pick my bike up·"







This map is the pedestrian circulation concept plan. It highlights existing trails, proposed trail extensions (separated, shared road, and shoulder) as well as priority sidewalks. The priority sidewalks are to be complete, meet ADA accessibility requirements and serve as Vinton's "Safe Routes To School."





Highway 218 (K Avenue) & 4th Street Intersection

Residents identified the lack of pedestrian connectivity and accessibility along state Highway 218 as a major transportation barrier during the preliminary planning process - see boards 2 and 4. Heavily traveled, Hwy. 218 is one of the main arterials for residents and visitors, and provides the first impression of Vinton to travelers entering town from the northwest and south.

The proposed enhancements illustrated on this board address the transportation barriers noted by residents for Hwy. 218 as well as various other transportation-



Existing Hwy. 218 & 4th St. intersection – photo taken from west side of Hwy. 218 looking easterly along 4th St.

related concerns. The enhancements are targeted at turning Hwy. 218 into a "complete street," while also improving circulation and augmenting the streetscape. The same strategies shown on these boards can be applied to other primary corridors as noted on board 5, including 4th Street.

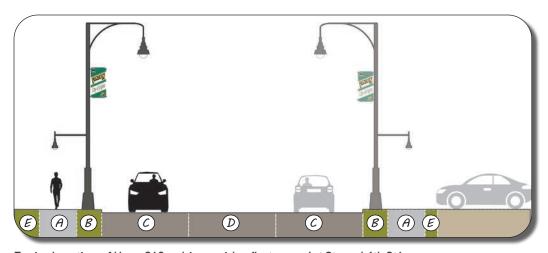


Existing aerial plan view





Proposed
enhancements ornamental grass
to screen parking
lots and highlight
intersection;
refer to proposed
plan view and
associated legend
on this board for
more information
on enhancements



Typical section of Hwy. 218 pubic corridor (between 1st St. and 4th St.)

Hwy. 218 Corridor Typical Section Notes

- (A) 6-foot-wide ADA-compliant sidewalk (west side of Hwy. 218: from Hinkle Creek proposed pedestrian bridge crossing north; east side of Hwy. 218: from 4th St. north)
- (B) "Furnishing Zone": Minimum 4-foot-wide green space; location for decorative lighting, way-finding signage, traffic-control signage, possible street tree plantings when width is 6-feet or greater and sight triangles allow
- (c) Existing Hwy. 218 driving lane (+/- 12' to +/- 14')
- \bigcirc Existing Hwy. 218 turning lane (+/- 12' to +/- 14')
- Frontage Zone" in road right-of-way, width varies possible street tree plantings when width is 6-feet or greater; buffer plantings to screen views





Aerial plan view with proposed enhancements

Hwy. 218 and 4th Street Enhancement Highlight

- (7) 6-foot-wide ADA-compliant sidewalk along Hwy. 218 north of Hinkle Creek
- 2 Minimum 5-foot-wide ADA-compliant sidewalks along primary corridors leading to and from Hwy. 281 (see board 6)
- (3) Reduce size of ingress/egress driveways to standard sizes for specific uses
- (4) Eliminate adjacent connected back-out street parking (except in downtown area)
- (5) Paint crosswalks and install associated signage at intersections designated for pedestrian crossings
- 6 Install way-finding signage, decorative lighting, and street trees in the right-of-way public green space ("furnishing zone"), as applicable
- 7) Install a pedestrian bridge over Hinkle Creek (west side of Hwy. 218)

Description C Sidewalks (Hwy. 218 and 4th Intersection - Area on Plan View) Demolition & Earthwork/Grading - Curb Removal - Sidewalk and Driveway Surfacing Removal - Earth Excavation & Grading Tavement - PCC Curb - PCC Pedestrian Pavement, 5" on Agg. Base Cse. 4" - PCC Driveway Pavement, 8" on Agg. Base Cse. 4" DA Compliant Detectable Warning Panel dscaping (Hwy. 218 and 4th Intersection - Area on Plan View) Urban Seeding - Seeding and Fertilizing (Urban) & Mulching - Topsoil, 6" andscaping - Planting Bed Prep & Shredded Hardwood Mulch, 3" - Commercial Mowing Edge - Street Trees Corative Lighting & Banners (Equipment Only, Not Installed) Tedestrian Only Fixture (City Purchase)	1 1541 594 1 906 300 104 0.3 305 152 167 12	LS SY CY LS SY SF AC CY		6,300.00 10.00 18.00 40,000.00 65.00 77.00 55.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	6,300.00 15,410.00 10,692.00 40,000.00 58,890.00 23,100.00 5,720.00 4,800.00 6,405.00	\$ \$ \$ \$	Estimated Totals 160,112.00 32,402.00 121,990.00 5,720.00 19,726.00 11,205.00
C Sidewalks (Hwy. 218 and 4th Intersection - Area on Plan View) Demolition & Earthwork/Grading - Curb Removal - Sidewalk and Driveway Surfacing Removal - Earth Excavation & Grading Tavement - PCC Curb - PCC Pedestrian Pavement, 5" on Agg. Base Cse. 4" - PCC Driveway Pavement, 8" on Agg. Base Cse. 4" DA Compliant Detectable Warning Panel dscaping (Hwy. 218 and 4th Intersection - Area on Plan View) Urban Seeding - Seeding and Fertilizing (Urban) & Mulching - Topsoil, 6" andscaping - Planting Bed Prep & Shredded Hardwood Mulch, 3" - Commercial Mowing Edge - Street Trees Corative Lighting & Banners (Equipment Only, Not Installed)	1 1541 594 1 906 300 104 0.3 305	LS SY CY LS SY SY SF	\$ \$ \$ \$ \$ \$	6,300.00 10.00 18.00 40,000.00 65.00 77.00 55.00 16,000.00 21.00	\$ \$ \$ \$ \$	6,300.00 15,410.00 10,692.00 40,000.00 58,890.00 23,100.00 5,720.00	\$	160,112.0 32,402.0 121,990.0 5,720.0 19,726.0
Demolition & Earthwork/Grading - Curb Removal - Sidewalk and Driveway Surfacing Removal - Earth Excavation & Grading Davement - PCC Curb - PCC Pedestrian Pavement, 5" on Agg. Base Cse. 4" - PCC Driveway Pavement, 8" on Agg. Base Cse. 4" DA Compliant Detectable Warning Panel dscaping (Hwy. 218 and 4th Intersection - Area on Plan View) Urban Seeding - Seeding and Fertilizing (Urban) & Mulching - Topsoil, 6" andscaping - Planting Bed Prep & Shredded Hardwood Mulch, 3" - Commercial Mowing Edge - Street Trees Corative Lighting & Banners (Equipment Only, Not Installed)	594 1 906 300 104 0.3 305 152 167	SY CY LS SY SY SF AC CY	\$ \$ \$ \$ \$	10.00 18.00 40,000.00 65.00 77.00 55.00 16,000.00 21.00	\$ \$ \$ \$ \$	15,410.00 10,692.00 40,000.00 58,890.00 23,100.00 5,720.00 4,800.00	\$	32,402.0 121,990.0 5,720.0 19,726.0
- Curb Removal - Sidewalk and Driveway Surfacing Removal - Earth Excavation & Grading tavement - PCC Curb - PCC Pedestrian Pavement, 5" on Agg. Base Cse. 4" - PCC Driveway Pavement, 8" on Agg. Base Cse. 4" DA Compliant Detectable Warning Panel dscaping (Hwy. 218 and 4th Intersection - Area on Plan View) Urban Seeding - Seeding and Fertilizing (Urban) & Mulching - Topsoil, 6" andscaping - Planting Bed Prep & Shredded Hardwood Mulch, 3" - Commercial Mowing Edge - Street Trees corative Lighting & Banners (Equipment Only, Not Installed)	594 1 906 300 104 0.3 305 152 167	SY CY LS SY SY SF AC CY	\$ \$ \$ \$ \$	10.00 18.00 40,000.00 65.00 77.00 55.00 16,000.00 21.00	\$ \$ \$ \$ \$	15,410.00 10,692.00 40,000.00 58,890.00 23,100.00 5,720.00 4,800.00	\$	121,990.0 5,720.0 19,726.0
- Sidewalk and Driveway Surfacing Removal - Earth Excavation & Grading avement - PCC Curb - PCC Pedestrian Pavement, 5" on Agg. Base Cse. 4" - PCC Driveway Pavement, 8" on Agg. Base Cse. 4" DA Compliant Detectable Warning Panel dscaping (Hwy. 218 and 4th Intersection - Area on Plan View) Urban Seeding - Seeding and Fertilizing (Urban) & Mulching - Topsoil, 6" andscaping - Planting Bed Prep & Shredded Hardwood Mulch, 3" - Commercial Mowing Edge - Street Trees corative Lighting & Banners (Equipment Only, Not Installed)	594 1 906 300 104 0.3 305 152 167	SY CY LS SY SY SF AC CY	\$ \$ \$ \$ \$	10.00 18.00 40,000.00 65.00 77.00 55.00 16,000.00 21.00	\$ \$ \$ \$ \$	15,410.00 10,692.00 40,000.00 58,890.00 23,100.00 5,720.00 4,800.00	\$	5,720.0 19,726.0
- Earth Excavation & Grading avement - PCC Curb - PCC Pedestrian Pavement, 5" on Agg. Base Cse. 4" - PCC Driveway Pavement, 8" on Agg. Base Cse. 4" DA Compliant Detectable Warning Panel dscaping (Hwy. 218 and 4th Intersection - Area on Plan View) Jrban Seeding - Seeding and Fertilizing (Urban) & Mulching - Topsoil, 6" andscaping - Planting Bed Prep & Shredded Hardwood Mulch, 3" - Commercial Mowing Edge - Street Trees corative Lighting & Banners (Equipment Only, Not Installed)	594 1 906 300 104 0.3 305 152 167	LS SY SY SF AC CY	\$ \$ \$	18.00 40,000.00 65.00 77.00 55.00 16,000.00 21.00	\$ \$ \$ \$	40,000.00 58,890.00 23,100.00 5,720.00 4,800.00	\$	5,720.0 19,726.0
- PCC Curb - PCC Pedestrian Pavement, 5" on Agg. Base Cse. 4" - PCC Driveway Pavement, 8" on Agg. Base Cse. 4" - PCC Driveway Pavement, 8" on Agg. Base Cse. 4" DA Compliant Detectable Warning Panel dscaping (Hwy. 218 and 4th Intersection - Area on Plan View) Urban Seeding - Seeding and Fertilizing (Urban) & Mulching - Topsoil, 6" andscaping - Planting Bed Prep & Shredded Hardwood Mulch, 3" - Commercial Mowing Edge - Street Trees corative Lighting & Banners (Equipment Only, Not Installed)	1 906 300 104 0.3 305	LS SY SY SF AC CY	\$ \$	40,000.00 65.00 77.00 55.00 16,000.00 21.00	\$ \$ \$	40,000.00 58,890.00 23,100.00 5,720.00 4,800.00	\$	5,720.0 19,726.0
- PCC Curb - PCC Pedestrian Pavement, 5" on Agg. Base Cse. 4" - PCC Driveway Pavement, 8" on Agg. Base Cse. 4" DA Compliant Detectable Warning Panel dscaping (Hwy. 218 and 4th Intersection - Area on Plan View) Urban Seeding - Seeding and Fertilizing (Urban) & Mulching - Topsoil, 6" andscaping - Planting Bed Prep & Shredded Hardwood Mulch, 3" - Commercial Mowing Edge - Street Trees corative Lighting & Banners (Equipment Only, Not Installed)	300 104 0.3 305 152 167	SY SY SF AC CY	\$ \$	65.00 77.00 55.00 16,000.00 21.00	\$ \$	58,890.00 23,100.00 5,720.00 4,800.00	\$	5,720.0 19,726.0
- PCC Pedestrian Pavement, 5" on Agg. Base Cse. 4" - PCC Driveway Pavement, 8" on Agg. Base Cse. 4" DA Compliant Detectable Warning Panel dscaping (Hwy. 218 and 4th Intersection - Area on Plan View) Urban Seeding - Seeding and Fertilizing (Urban) & Mulching - Topsoil, 6" andscaping - Planting Bed Prep & Shredded Hardwood Mulch, 3" - Commercial Mowing Edge - Street Trees corative Lighting & Banners (Equipment Only, Not Installed)	300 104 0.3 305 152 167	SY SY SF AC CY	\$ \$	65.00 77.00 55.00 16,000.00 21.00	\$ \$	58,890.00 23,100.00 5,720.00 4,800.00	\$	19,726.0
- PCC Driveway Pavement, 8" on Agg. Base Cse. 4" DA Compliant Detectable Warning Panel dscaping (Hwy. 218 and 4th Intersection - Area on Plan View) Jrban Seeding - Seeding and Fertilizing (Urban) & Mulching - Topsoil, 6" andscaping - Planting Bed Prep & Shredded Hardwood Mulch, 3" - Commercial Mowing Edge - Street Trees corative Lighting & Banners (Equipment Only, Not Installed)	300 104 0.3 305 152 167	SY SF AC CY	\$ \$	77.00 55.00 16,000.00 21.00	\$	23,100.00 5,720.00 4,800.00	\$	19,726.0
DA Compliant Detectable Warning Panel dscaping (Hwy. 218 and 4th Intersection - Area on Plan View) Jrban Seeding - Seeding and Fertilizing (Urban) & Mulching - Topsoil, 6" andscaping - Planting Bed Prep & Shredded Hardwood Mulch, 3" - Commercial Mowing Edge - Street Trees corative Lighting & Banners (Equipment Only, Not Installed)	0.3 305 152 167	SF AC CY	\$ \$	55.00 16,000.00 21.00	\$	5,720.00 4,800.00	\$	19,726.0
dscaping (Hwy. 218 and 4th Intersection - Area on Plan View) Jrban Seeding - Seeding and Fertilizing (Urban) & Mulching - Topsoil, 6" andscaping - Planting Bed Prep & Shredded Hardwood Mulch, 3" - Commercial Mowing Edge - Street Trees corative Lighting & Banners (Equipment Only, Not Installed)	0.3 305 152 167	AC CY	\$	16,000.00	\$	4,800.00	\$	19,726.0
Jrban Seeding - Seeding and Fertilizing (Urban) & Mulching - Topsoil, 6" andscaping - Planting Bed Prep & Shredded Hardwood Mulch, 3" - Commercial Mowing Edge - Street Trees corative Lighting & Banners (Equipment Only, Not Installed)	305 152 167	CY SF	\$	21.00			•	
- Seeding and Fertilizing (Urban) & Mulching - Topsoil, 6" andscaping - Planting Bed Prep & Shredded Hardwood Mulch, 3" - Commercial Mowing Edge - Street Trees corative Lighting & Banners (Equipment Only, Not Installed)	305 152 167	CY SF	\$	21.00			\$	11,205.0
- Topsoil, 6" andscaping - Planting Bed Prep & Shredded Hardwood Mulch, 3" - Commercial Mowing Edge - Street Trees corative Lighting & Banners (Equipment Only, Not Installed)	305 152 167	CY SF	\$	21.00				
- Topsoil, 6" andscaping - Planting Bed Prep & Shredded Hardwood Mulch, 3" - Commercial Mowing Edge - Street Trees corative Lighting & Banners (Equipment Only, Not Installed)	152 167	SF			\$	6 405 00		
Planting Bed Prep & Shredded Hardwood Mulch, 3" Commercial Mowing Edge Street Trees corative Lighting & Banners (Equipment Only, Not Installed)	167		\$			0,100.00		
- Commercial Mowing Edge - Street Trees corative Lighting & Banners (Equipment Only, Not Installed)	167		\$				\$	8,521.0
- Street Trees corative Lighting & Banners (Equipment Only, Not Installed)		LF		8.00	\$	1,216.00		
corative Lighting & Banners (Equipment Only, Not Installed)	12		\$	15.00	\$	2,505.00		
		EΑ	\$	400.00	\$	4,800.00		
edestrian Only Fixture (City Purchase)								TBD
cacaman chily hardre (chi) i chomase,	TBD	EA	\$	3,000.00		TBD		TBD
'ehicular Only Fixture (City Purchase)	TBD	EA	\$	7,500.00		TBD		TBD
edestrian and Vehicular Combo Fixture (City Purchase)	TBD	EA	\$	9,500.00		TBD		TBD
randed Banners (City Purchase)	TBD	EA	\$	160.00		TBD		TBD
nage & Marking (Hwy. 218 and 4th Intersection - Area on Plan View)							\$	14,225.0
ehicular Directional Way-Finding Signage Allowance							\$	9,600.0
- 3-Destination	3	EA	\$	3,200.00	\$	9,600.00		
randed Street Name Signage Only (City Purchase, Not Installed)							\$	975.0
- Branded Street Name Sign (City Purchase)	6	EA	\$	100.00	\$	600.00		
- Break-A-Way Post (City Purchase)	3	EA	\$	125.00	\$	375.00		
ermanent Traffic Control							\$	3,650.0
- High Visibility Painted Sidewalk (Hwy. 218 and W.4th St.)	1	LS	\$	2,900.00	\$	2,900.00		
- Painted Crosswalks	1	LS	\$	450.00	\$	450.00		
- Painted Stop Lines	1	EA	\$	300.00	\$	300.00		
cellaneous(Hwy. 218 and 4th Intersection - Area on Plan View)							\$	
Erosion & Sediment Control (5%)		LS	\$	9,700.00	\$	-	\$	-
Temporary Traffic Control (5%)		LS	\$	9,700.00	\$	-	\$	-
Mobilization (10%)		F2	\$	19,400.00	\$	-	\$	-
						Subtotal		194,063.0
						Allowance		58,218.9
						Allowance		37,842.2
	Op	oinion o	of Tot	al Probable (Const	ruction Cost	\$	290, 124.1



Design Expertise Recommended

Projects in their entirety, or portions of them may require help beyond the capability of the Vinton Visioning Committee, available city staff, and/or volunteers. For the **Hwy. 218 and 4th St. Intersection Enhancement** improvement project the visioning committee should expect to engage the services of a landscape architect, surveyor, civil engineer and electrical engineer.

The committee should expect to coordinate this project with the lowa Department of Transportation (lowa DOT) District Engineer. Permitting may also be required by the lowa DOT. Coordination with adjacent landowners should always be part of a project, however, it is especially critical for the success with this project.

Highway 218 (K Avenue)

Residents identified the lack of pedestrian connectivity and accessibility along state process - see boards 2 and 4. Heavily traveled, Hwy, 218 is one of the main arterials Highway 218 as a major transportation barrier during the preliminary planning for residents and visitors, and provides the first impression of Vinton to travelers entering town from the northwest and south.

The proposed enhancements illustrated on this board address the transportation streetscape. The same strategies shown on these boards can be applied to other barriers noted by residents for Hwy. 218 as well as various other transportationrelated concerns. The enhancements are targeted at turning Hwy. 218 into a "complete street," while also improving circulation and augmenting the primary corridors as noted on board 5, including 4th Street.

", there's no sidewalk on [the Highway] 218., bridge [over Hinkle Creek]., it's very, very narrow., that becomes a safety hazard."

'There's a bridge [on Hwy 218], but there [are] no sidewalks... people [are] walking in the bridge as people are driving over



section of Hwy. 218 pubic corridor (between 1st St. and 4th St.)



- decorative lighting way-finding signage, traffic-control signage, possible street tree plantings when width is 6-feet or greater and sight triangles allow (© Existing twy, 218 driving lane (**-12" to **-14")

 Existing twy, 218 turning lane (**-12" to **-14")
 - plantings when width is 6-feet or greater; buffer plantings to screen views



Existing Hwy. 218 & 4th St. intersection – photo taken from west side of Hwy. 218 looking easterly along 4th St.

Existing aerial plan view



Proposed enhancements - omamental grass to screen parking lots and highlight intersection; to proposed plan view and associated legend on this board for more information on enhancer Hwy. 218 and 4th Street Enhancement Highlight

- Ó 6-foot-wide ADA-compliant sidewalk along Hwy, 218 north of Hinkle Cre.
 Ö Minimum 5-foot-wide ADA-compliant sidewalks along primary corridors leading to and from Hwy. 281 (see board 6)
- Reduce size of ingress/egress driveways to standard sizes for specific uses
 Eliminate adjacent connected back-out street parking (except in
- (5) Paint crosswalks and install associated signage at intersections designated downtown area)
 - (6) Install way-finding signage, decorative lighting, and street trees in the right of-way public green space ("furnishing zone"), as applicable for pedestrian crossings

(7) Install a pedestrian bridge over Hinkle Creek (west side of Hwy. 218)

Flenker Land Architects Consultants, LLC

LA: Meg Flenker, PLA, CPESC, CPSWQ Interns: Trevor Smith, Mikky Ojha



Connectivity and Accessibility



Hinkle Creek Crossing at Hwy. 218 (K Ave.)

The lack of a pedestrian bridge over Hinkle Creek along Hwy. 218 was cited by residents as a major transportation barrier affecting the safety of both motorists and pedestrians.

The concept illustrated below was developed based on the feedback received from residents. According to a cursory review of available records, it appears that the Hwy. 218 corridor north of Hinkle Creek may not have a wide enough public right-of-way to accommodate a 10'-wide separated bike path with the necessary clearance zone and grading, but, this would need to be investigated further. It does appear, however, that their is adequate public right-of-way to construct a pedestrian-only bridge (not a recreation trail) that would connect to the proposed pedestrian pavements on either side. A pedestrian-only bridge/crossing would be less expensive than one for a recreational trail because of the decreased travel-way width required.



Existing Hwy. 218 (K Ave.) at Hinkle Creek – photo taken from north side of Hinkle Creek at intersection of 5th Street W. and Hwy. 218 looking southerly along Hwy. 218 toward Hinkle Creek



Proposed concept illustrates the following enhancements: 6-foot-wide ADA-compliant sidewalk, prefabricated pedestrian bridge, branded way-finding signage, decorative pedestrian lighting with banners, right-of-way planted with native prairie grasses and forbs, with wet ditch areas planted with appropriate native wet prairie/wetland vegetation such as prairie cord grass.



Design Expertise Recommended

Projects in their entirety, or portions of them may require help beyond the capability of the Vinton Visioning Committee, available city staff, and/or volunteers. For the **Hinkle Creek Crossing at Highway 218 (K Ave.)** improvement project the visioning committee should expect to engage the services of a landscape architect, surveyor structural engineer and civil engineer.

The committee should expect to coordinate this project with the lowa Department of Transportation (lowa DOT) District Engineer. Permitting may also be required by the lowa DOT, the US Army Corps of Engineers and lowa DNR.

	for Visual	1						Summer 202
	Est.		E	stimated	E	stimated		Estimated
Description	Qty.	Unit		Unit Cost		ine Total		Totals
arthwork/Grading							\$	12,500.0
Earthwork/Grading							\$	12,500.0
- Earth Excavation, Fill & Grading	1	LS	\$	12,500.00	\$	12,500.00		
CC Sidewalk (W. 5th St. to Bridge)							\$	10,020.0
Pavement on Grade							\$	10,020.0
- PCC Pedestrian Pavement, 5", Agg. Base Cse, 4"	144	SY	\$	65.00	\$	9,360.00		
- ADA Compliant Detectable Warning Panel	12	SF	\$	55.00	\$	660.00		
andscaping							\$	5,000.0
Native Seeding							\$	4,500.0
- Planting Prep for Native Vegetation	1	LS	\$	3,000.00	\$	3,000.00		
- Seeding and Mulching	1	LS	\$	1,500.00	\$	1,500.00		
Rural Seeding							\$	500.0
- Seeding and Fertilizing (Rural)	1	LS	\$	500.00	\$	500.00		
Decorative Lighting & Banners (Equipment Only, Not Installed)								TBD
Pedestrian Only Fixture (City Purchase)	TBD	EA	\$	3,000.00		TBD		TBD
Vehicular Only Fixture (City Purchased)	TBD	EA	\$	7,500.00		TBD		TBD
Pedestrian and Vehicular Combo Fixture (City Purchase)	TBD	EA	\$	9,500.00		TBD		TBD
Branded Banners (City Purchase)	TBD	EA	\$	160.00		TBD		TBD
Vay-Finding Signage							\$	3,200.0
Vehicular Directional Way-Finding Signage Allowance							\$	3,200.0
- 3-Destination	1	EΑ	\$	3,200.00	\$	3,200.00		
edestrian Bridge							\$	119,700.0
Pedestrian Bridge							\$	119,700.0
- Bridge Abutments	1	LS	\$	15,000.00	\$	15,000.00		
- Pre-Engineered Truss Trail Bridge, 50' L x 10' W	1	EΑ	\$	90,000.00	\$	90,000.00		
- Engineering Fabric	1	LS	\$	2,200.00	\$	2,200.00		
- Revetment Stone	1	LS	\$	12,500.00	\$	12,500.00		
Aiscellaneous							\$	30,400.0
Erosion & Sediment Control (5%)	1	LS	\$	7,600.00	\$	7,600.00		
Temporary Traffic Control (5%)	1	LS	\$	7,600.00	\$	7,600.00		
Mobilization	1	LS	\$	15,200.00	\$	15,200.00		
					Sec	ion Subtotal	\$	180,820.0
						Allowance		54,246.0
		1.50				g Allowance		35,259.9
		13/				truction Cost		270,325.9
			101	a. i i obdicie	J (113		Ÿ	270,023.7



Downtown Connection to Celebration Park (Hwy. 150 & 2nd St..)

Celebration Park is a popular destination for the community given its location along the Cedar River and its close proximity to the downtown and county courthouse. This park hosts the Vinton farmers market is welcoming place to relax, enjoy the river, take a quick walk, or have a picnic.

Residents cited concern over the safety of motorists and pedestrians accessing the park from the downtown via the Hwy. 150 corridor. Issues that the proposed concepts address include: traffic calming, traffic control, pedestrian connectivity and ADA accessibility, improved safety, and streetscape aesthetics. The proposed enhancements are illustrated in both plan and perspective views in the images below and on the next page.



Existing view of Hwy. 150 & 2nd St. intersection; photo taken from Hwy. 150 bridge looking southerly toward its intersection with 2nd St. toward downtown Vinton (intersection of Hwy. 150/3rd St. and 1st Ave.)



Proposed enhancements noted in highlights and on proposed aerial plan view

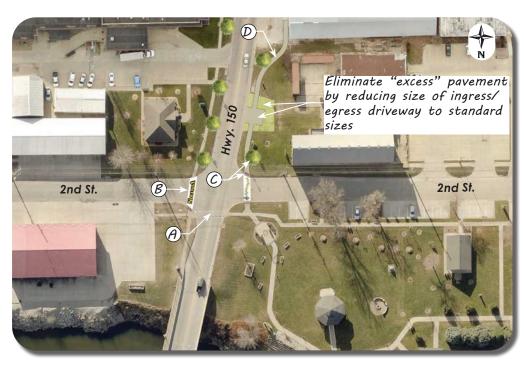




Existing aerial plan view

"...[the] only option for us to run is in the streets.
There's no sidewalk where [we] could run side by side...a lot of the sidewalks in general are very narrow, so it's hard to just even walk."





Proposed aerial plan view

Downtown Connection to Celebration Park Enhancement Highlights

- (A) High-visibility, painted crosswalk with high-visibility crosswalk warning signs alerting motorists of the crosswalks (i.e. in advance flashing lights)
- (B) Decorative pedestrian crosswalks to enhance safety and aesthetics, as well as create visual connectivity to downtown decorative crosswalks
- Street trees, decorative lighting, way-finding signage, traffic-control devices and ADA-compliant sidewalks assist in traffic calming/control while physically and visually linking Celebration Park to the downtown, creating a more aesthetic gateway, and enhancing the safety and user experience of both the motorist and pedestrian
- (D) ADA -compliant sidewalk on west side of Hwy. 150 corridor to strengthen connectivity and enhance pedestrian



Design Expertise Recommended

Projects in their entirety, or portions of them may require help beyond the capability of the Vinton Visioning Committee, available city staff, and/or volunteers. For the **Connectivity From Downtown To Celebration Park** improvement project the visioning committee should expect to engage the services of a landscape architect, surveyor and electrical engineer.

The committee should expect to coordinate this project with the lowa Department of Transportation (Iowa DOT) District Engineer and Benton County Engineer. Permitting may also be required by the Iowa DOT.



								Summer 202
	Est. Estimated Estimated			Estimated				
Description	Qty.	Unit	U	Init Cost	L	ine Total		Totals
CC Sidewalks							\$	17,652.0
Demolition & Earthwork/Grading							\$	4,770.0
- Selective Removal	180	SY	\$	22.50		4,050.00		
- Earth Excavation & Grading	40	CY	\$	18.00	\$	720.00		10,000
Pavement							\$	12,882.0
- PCC Pedestrian Pavement, 5" on Agg. Base Cse. 4"	120	SY	\$	65.00	\$	7,800.00		
- PCC Driveway Pavement, 6" on Agg. Base Cse. 4"	66	SY	\$	77.00	\$	5,082.00		
andscaping							\$	11,312.0
Landscaping								
- Planting Bed Prep & Shredded Hardwood Mulch, 3"	180	SF	\$	8.00	\$	1,440.00	\$	8,064.0
- PCC Mowing Edge	144	LF	\$	21.00	\$	3,024.00		
- Street Trees	9	EA	\$	400.00	\$	3,600.00		
Sod	2320	SF	\$	1.40	\$	3,248.00	\$	3,248.0
ecorative Lighting & Banners (Equipment Only, Not Installed)								TBD
Pedestrian Only Fixture (City Purchase)	TBD	EA	\$	3,000.00		TBD		TBD
Vehicular Only Fixture (City Purchase)	TBD	EA	\$	7,500.00		TBD		TBD
Pedestrian and Vehicular Combo Fixture (City Purchase)	TBD	EA	\$	9,500.00		TBD		TBD
Branded Banner (City Purchase)	TBD	EA	\$	160.00		TBD		TBD
ay-Finding Signage							\$	5,400.0
Vehicular Directional Way-Finding Signage Allowance							\$	5,400.0
- 3-Destination	1	EΑ	\$	3,200.00	\$	3,200.00		
- 1-Destination	1	EA	\$	2,200.00	\$	2,200.00		
rosswalks							\$	12,472.0
Demolition							\$	1,872.0
- Selective Removal (2nd St)	64	SY	\$	22.50	\$	1,440.00		
- Curb Removal	36	LF	\$	12.00	\$	432.00		
Pavement							\$	9,600.
- Decorative Crosswalk (2nd St.)	64	SY	\$	150.00	\$	9,600.00		
Permanent Traffic Control			T		7	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$	1,000.
- High Visibility Painted Crosswalk (Hwy. 150)	1	LS	\$	850.00	\$	850.00		
- Painted Stop Lines (2nd St.)	1	LS	\$	150.00	\$	150.00		
ashing Beacons (City Purchase, Not Installed)			Ť	100100	7	100100	\$	21,600.0
Permanent Traffic Beacons (City Purchase, Not Installed)							\$	21,600.0
- Solar LED Flashing Beacon Amber Light W/ Crosswalk Ahead Sign	2	EA	\$	1,900.00	\$	3,800.00	<u>'</u>	
- Push Button Pedestrian Flashing Crosswalk Sign	2	EA	\$	8,900.00		17,800.00		
iscellaneous	_		7	0,700100	7	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$	14,000.0
Erosion & Sediment Control (5%)	1	LS	\$	3,500.00	\$	3,500.00	Ŧ	,,,,,,
Temporary Traffic Control (5%)	1	LS	\$	3,500.00		3,500.00		
Mobilization (10%)	1	LS	\$	7,000.00	\$	7,000.00		
	·		T		'	ion Subtotal	¢	82,436.
				30% Conting			\$	24,730.
		1 50						
		15%		ign & Engine				16,075.
			1010	al Probable (Jonsi	IUCTION COST	ş	123,241.
			. 1 . 1 1	Probable Co		" 0 1	^	124,000.



Hinkle Creek Crossing at Hwy. 218 (K Ave.)

residents as a major transportation barrier affecting the safety of both motorists The lack of a pedestrian bridge over Hinkle Creek along Hwy. 218 was cited by and pedestrians.

pedestrian-only bridge (not a recreation trail) that would connect to the proposed pedestrian pavements on either side. A pedestrian-only bridge/crossing would be right-of-way to accommodate a 10′-wide separated bike path with the necessary from residents. According to a cursory review of available records, it appears that the Hwy. 218 corridor north of Hinkle Creek may not have a wide enough public does appear, however, that their is adequate public right-of-way to construct a less expensive than one for a recreational trail because of the decreased travel-The concept illustrated below was developed based on the feedback received clearance zone and grading, but, this would need to be investigated further. It way width required.



Existing Huuy. 218 (K Ave.) Cit Hinkle Creek-photo taken from north side of Hinkle Creek art intersection of 5th Street W. and Huuy 218 looking southerly along Huuy. 218 rouard Hinkle Creek



posed concept illustrates the following enhancements 6-foot-wide ADA-compliant sidewalk following enhancements 6-foot-wide ADA-compliant sidewalk following expectation lighting with more eight-of-way planted with native prairie grasses and foots, with used rinch areas planted that paying land of a grasses and foots, with used rinch areas planted that paying lanted wegetation such as prairie cord grass.

Vinton

Connectivity and Accessibility

Downtown Connection to Celebration Park (Hwy. 150 & 2nd St..)

courthouse. This park hosts the Vinton farmers market is welcoming place to relax, Celebration Park is a popular destination for the community given its location along the Cedar River and its close proximity to the downtown and county enjoy the river, take a quick walk, or have a picnic.

Existing view of Hwy, 150 & 2 And S. Intersection: photo taken from Hwy. 150 bridge looking southerly toward its intersection with 2nd St. toward downtown Vinton (Intersection of Hwy 150/3rd St. and 1st Ale.)

the park from the downtown via the Hwy, 150 corridor. Issues that the proposed concepts address include: traffic calming, traffic control, pedestrian connectivity Residents cited concern over the safety of motorists and pedestrians accessing and ADA accessibility, improved safety, and streetscape aesthetics. The proposed enhancements are illustrated in both plan and perspective views in the images below and to the right.



"...[the] only option for a tree or unit of the streets:
There's no sidewalk where [we] could run side by side... a) to for the sidewalks in general are very narrow, so it's hard to just even walk".









Downtown Connection to Celebration Park Enhancement Highlights

(i) High-visibility, painted crosswalk with high-visibility crosswalk warning signs

ed enhancements noted in highlights and on proposed aerial plan view

alerting motorists of the crosswalks (i.e. in advance flashing lights)

8 Decorative pedestrian crosswalks to enhance safety and aesthetics, as

as create visual connectivity to downtown decorative crosswalks

© Street trees, decorative lighting, way-finding signage, traffic-control and ADA-compliant sidewalks assist in traffic calming/control while

Flenker Land Architects Consultants, LLC

LA: Meg Flenker, PLA, CPESC, CPSWQ Interns: Trevor Smith, Mikky Ojha



connectivity and enhance pedestrian safety and accessibility by providing

an alternative to route to avoid crossing Hwy. 150 at base of bridge

creating a more aesthetic gateway, and enhancing the safety and user

experience of both the motorist and pedestrian

physically and visually linking Celebration Park to the downtown,



Trail Extension + Enhancements

Trail Extension + Enhancements

Creating a looped trail system that connects to the Old Creamery Trail, the Glow Trail, and regional trail systems such as the Cedar Valley Nature Trail was identified by residents as one of their most desired improvements . During the design workshop, community members had the opportunity to interact with the design team and communicate their opinions and ideas as to the route selection and what routes were priority – this was done by having them place Wiki Stixs sticks on an aerial plan of the community in the location(s) they wanted trails and sidewalks. Residents gave highest priority to routes that would have the greatest impact to improving connectivity, accessibility, and safety.

The pedestrian circulation map shown on board 9a provides an overview of the proposed location(s) for trail extensions and sidewalks based on the community input received. This board and board 10b provide illustrations as to how these proposed improvements are envisioned.

The Vinton proposed trail system is anticipated to be comprised of three main segment types based on trail location and site conditions that consist of:

- 1) Shared road (pavement markings and signage) shown on this board
- 2) Separated trail (recommend 10-foot-wide travel-way with 2-foot grass shoulders) see board 10b
- 3) Paved road shoulder bike lane (recommend a 4-foot minimum buffer area between roadway and trail lane, with buffer area consisting of rumble strip and painted buffer between lane and shoulder lane

Design Expertise Recommended

Projects in their entirety, or portions of them may require help beyond the capability of the Vinton Visioning Committee, available city staff, and/or volunteers. For the **4th Street and 9th Avenue Enhancement** improvement project and **Hwy. 218 and 13th Street Enhancement** improvement project, the visioning committee should expect to engage the services of a landscape architect, surveyor and civil engineer.

The committee should expect to coordinate any work adjacent to or within the right-of-way of Highway 218 with the lowa Department of Transportation (Iowa DOT) District Permitting may also be required by the Iowa DOT for such work.





Existing view of 9th Ave. when looking north from 4th St.



Shared road segment: 9th Avenue proposed enhancements (extend from 3rd St. north to hospital)

4th Street and 9th Avenue Enhancement Elements

- 6-foot-wide ADA-compliant sidewalk on both the east and west sides of 9th Avenue from 3rd Street north to the north side of the hospital to serve as main pedestrian corridor and a segment of the safe route to schools
- Shared road pavement markings and associated signage
- Directional way-finding at appropriate locations
- Decorative lighting with banners can be added along the roadway to improve safety and serve as a way-finding tool to the hospital, Riverside Park, Vinton Country Club, and the Vinton Community Swimming Pool
- Enhanced hardscape: street and concrete curb and gutter



9th Ave.and 3rd Street Intersection Enhancements (See Board #10a for Visual)								Summer 202
	Est.			stimated		Estimated		Estimated
Description	Qty.	Unit		Unit Cost		Line Total		Totals
CC Sidewalks (9th Ave3rd St. Intersection to Hospital Segment)							\$	209,030.50
Demolition & Earthwork/Grading							\$	20,788.5
- Curb Removal	130	LF	\$	12.00	\$	1,560.00		
- Selective Removal	581	SY	\$	22.50	\$	13,072.50		
- Earth Excavation & Grading	342	CY	\$	18.00	\$	6,156.00		
Pavement							\$	176,362.0
- PCC Pedestrian Pavement, 5" on Agg. Base Cse. 4"	2025	SY	\$	65.00	\$	131,625.00		
- PCC Driveway Pavement, 6" on Agg. Base Cse. 4"	581	SY	\$	77.00	\$	44,737.00		
ADA Compliant Detectable Warning Panel	216	SF	\$	55.00	\$	11,880.00	\$	11,880.0
egmental Retaining Wall (9th Ave3rd St. Intersection to Hospital Segm	ent)						\$	56,400.0
Segmental Retaining Wall							\$	56,400.0
- Segmental Retaining Wall	1880	SF	\$	30.00	\$	56,400.00		
andscaping (9th Ave3rd St. Intersection to Hospital Segment)							\$	7,000.0
Urban Seeding							\$	7,000.0
- Seeding and Fertilizing (Urban)& Mulching	1	LS	\$	7,000.00	\$	7,000.00		
ecorative Lighting & Banners (Equipment Only, Not Installed)								TBD
Pedestrian Only Fixture (City Purchase)	TBD	EA	\$	3,000.00		TBD		TBD
Vehicular Only Fixture (City Purchase)	TBD	EA	\$	7,500.00		TBD		TBD
Pedestrian and Vehicular Combo Fixture (City Purchase)	TBD	EA	\$	9,500.00		TBD		TBD
Branded Banners (City Purchase)	TBD	EA	\$	160.00		TBD		TBD
ignage & Markings (9th Ave3rd St. Intersection to Hospital Segment)							\$	14,900.0
Vehicular Directional Way-Finding Signage Allowance							\$	6,400.0
- 3-Destination	2	EA	\$	3,200.00	\$	6,400.00		
Branded Street Name Signage Only (City Purchase, Not Installed)							\$	1,300.0
- Branded Street Name Sign (City Purchase)	8	EA	\$	100.00		800.00		
- Break-A-Way Post (City Purchase)	4	EA	\$	125.00	\$	500.00		
Share the Road							\$	5,400.0
- Painted Sharrow Marking	8	EA	\$	75.00		600.00		
- Share the Road Signage	8	EA	\$	600.00	\$	4,800.00		
Permanent Traffic Control							\$	1,800.0
- Painted Crosswalks	1	LS	\$	1,800.00	\$	1,800.00		
hiscellaneous (9th Ave3rd St. Intersection to Hospital Segment)							\$	57,600.0
Erosion & Sediment Control (5%)	1	LS	\$	14,400.00		14,400.00	\$	14,400.0
Temporary Traffic Control (5%)	1	LS	\$	14,400.00		14,400.00	\$	14,400.0
Mobilization (10%)	1	LS	\$	28,800.00	\$	28,800.00	\$	28,800.0
						Subtotal	_	344,930.5
						y Allowance	\$	103,479.1
						g Allowance		67,261.4
	0	oinion o	f Toto	al Probable C	ons	truction Cost*	\$	515,671.1
Preliming	ry Opinio	on of To	otal P	robable Co	nstr	uction Cost*	S	516,000.0





Existing view from Hwy. 218 (K Ave.) looking easterly along 13th St.



Hwy. 218 (K Ave.) and 13th Street proposed enhancements; shared road segment

Hwy 218 and 13th Street Enhancement Highlights

- 6-foot-wide ADA-compliant sidewalk on both the north and south sides of 13th Street from Highway 218 to 2nd Ave. on south side and 8th Ave. on north side to serve as main pedestrian corridor and a segment of the safe routes to school
- Shared road pavement markings and associated signage to enhance safety
- Directional way-finding at appropriate locations and branded street signs to enhance community identity
- High-visibility painted crosswalks at main intersections to enhance safety
- Street trees to provide shade, assist in traffic calming, and enhance the aesthetics of the streetscape
- Site amenities (i.e., benches, bike racks, trash receptacles) to enhance user comfort along main pedestrian routes and bike trail
- Seating pads for benches bench located on concrete adjacent to sidewalk/ trail, landscaped on the sides and back with low-maintenance plantings tolerant of conditions

lwy. 218 and 13th Street Enhancements (See Board #10a for	Visual)							Summer 2023
	Est.			Estimated		stimated		Estimated
Description	Qty.	Unit		Unit Cost		Line Total		Totals
CC Sidewalks (Intersection to Kiwanis Park Segment)							\$	75,620.00
Demolition & Earthwork/Grading							\$	11,500.00
- Selective Removal	1	LS	\$	1,500.00	\$	1,500.00		
- Earthwork/Grading	1	LS	\$	10,000.00	\$	10,000.00		
Culvert Extension							\$	16,925.00
- Culvert Extension	65	LF	\$	125.00	\$	8,125.00		
- Storm Inlets/Manholes	1	EΑ	\$	4,000.00	\$	4,000.00		
- Flared End Section	2	EΑ	\$	2,400.00	\$	4,800.00		
Pavement							\$	45,435.00
- PCC Pedestrian Pavement, 5" on Agg. Base Cse. 4"	699	SY	\$	65.00	\$	45,435.00	<u> </u>	
ADA Compliant Detectable Warning Panel	32	SF	\$	55.00		1,760.00	\$	1,760.00
andscaping (Intersection to Kiwanis Park Segment)	ÜŽ.	O1	Ψ	00.00	Ψ	1,7 00.00	Ψ	9,720.00
Landscaping (increase in the kind in a fact degrine in)								7,720.00
- Planting Bed Prep & Shredded Hardwood Mulch, 3"	120	SF	\$	8.00	\$	960.00	\$	6,720.00
	144	LF	\$	15.00	\$	2,160.00	φ	0,720.00
- Commercial Mowing Edge - Street Trees	9	EA	\$	400.00	\$	3,600.00		
	У	ĽΑ	₽	400.00	φ	3,000.00	\$	3,000.00
Urban Seeding	1	1.0	ø	2 000 00	đ	2 000 00	⊅	3,000.00
- Seeding and Fertilizing (Urban) & Mulching	- 1	LS	\$	3,000.00	\$	3,000.00	^	0.500.00
ite Amenities (Intersection to Kiwanis Park Segment)							\$	9,500.00
Site Amenities	0		<i>*</i>	0.750.00	Φ.	F F00 00	\$	9,500.00
- Benches & PCC PAD	2	EA	\$	2,750.00	\$	5,500.00		
- Trash Receptacle & PCC PAD	2	EA	\$	2,000.00	\$	4,000.00		
Decorative Lighting & Banners (Equipment Only, Not Installed)	70.0			0.000.00				TBD
Pedestrian Only Fixture (City Purchase)	TBD	EA	\$	3,000.00		TBD		TBD
Vehicular Only Fixture (City Purchase)	TBD	EA	\$	7,500.00		TBD		TBD
Pedestrian and Vehicular Combo Fixture (City Purchase)	TBD	EA	\$	9,500.00		TBD		TBD
Branded Banners (City Purchase)	TBD	EA	\$	160.00		TBD		TBD
ignage and Markings (Intersection to Kiwanis Park Segment)							\$	12,430.00
Vehicular Directional Way-Finding Signage Allowance							\$	6,400.00
- 3-Destination	2	EA	\$	3,200.00	\$	6,400.00		
Branded Street Name Signage Only (City Purchase, Not Installed)	_				,		\$	325.00
- Branded Street Name Sign (City Purchase)	2	EA	\$	100.00	\$	200.00		
- Break-A-Way Post (City Purchase)	- 1	EA	\$	125.00	\$	125.00		
Share the Road							\$	675.00
- Painted Sharrow Marking	1	EA	\$	75.00	\$	75.00		
- Share the Road Signage	1	EA	\$	600.00	\$	600.00		
Permanent Traffic Control							\$	5,030.00
- High Visibility Painted Crosswalk (Hwy. 218)	1	LS	\$	3,960.00	_	3,960.00		
- Painted Crosswalk (13th St.)	1	LS	\$	420.00		420.00		
- Painted Symbol Pavement Marking	1	EA	\$	650.00	\$	650.00		
lashing Beacons (City Purchase, Not Installed)							\$	21,600.00
Permanent Traffic Beacons (City Purchase, Not Installed)							\$	21,600.00
- Solar LED Flashing Beacon Amber Light W/ Crosswalk Ahead Sign	2	EA	\$	1,900.00	\$	3,800.00		
- Push Button Pedestrian Flashing Crosswalk Sign	2	EA	\$	8,900.00	\$	17,800.00		
Aiscellaneous (Intersection to Kiwanis Park Segment)							\$	26,000.00
Erosion & Sediment Control (5%)	1	LS	\$	6,500.00	\$	6,500.00	\$	6,500.00
Temporary Traffic Control (5%)	1	LS	\$	6,500.00	\$	6,500.00	\$	6,500.00
Mobilization (10%)	1	LS	\$	13,000.00	\$	13,000.00	\$	13,000.00
						Subtotal	_	154,870.00
				30% Conting	enc	y Allowance	\$	46,461.00
		159	% De:	sign & Engine			_	30,199.63
	^			tal Probable (231,530.65
	U	Pillion v	00	iai i iobabic i			Y	
		pillion	01 10	Idi i i obabic (Ť	
	U	pillion	01 10	iai i iobabie			Ÿ	



Trail Extension + Enhancements

Trail, and regional trail systems such as the Cedar Valley Nature Trail was identified an aerial plan of the community in the location (s) they wanted trails and sidewalks. what routes were priority – this was done by having them place Wiki Stixs sticks on Creating a looped trail system that connects to the Old Creamery Trail, the Glow workshop, community members had the opportunity to interact with the design Residents gave highest priority to routes that would have the greatest impact to team and communicate their opinions and ideas as to the route selection and by residents as one of their most desired improvements. During the design improving connectivity, accessibility, and safety.

proposed location(s) for trail extensions and sidewalks based on the community The pedestrian circulation map shown on board 9a provides an overview of the input received. This board and board 10b provide illustrations as to how these proposed improvements are envisioned.

The Vinton proposed trail system is anticipated to be comprised of three main segment types based on trail location and site conditions that consist of:

- 2) Separated trail (recommend 10-foot-wide travel-way with 2-foot grass Shared road (pavement markings and signage) - shown on this board shoulders) - see board 10b
- 3) Paved road shoulder bike lane (recommend a 4-foot minimum buffer area between roadway and trail lane, with buffer area consisting of rumble strip and painted buffer between lane and shoulder lane



Existing view of 9th Ave. when looking north from 4th St.



Existing view from Hwy, 218 (K Ave.) looking easterly along 13th St.





Hwy, 218 (K Ave.) and 13th Street proposed enhancements; shared road segr

Hwy 218 and 13th Street Enhancement Highlights

hared road segment: 9th Avenue proposed enhancements (extend from 3rd St. north to hospital,

6-foot-wide ADA-compliant sidewalk on both the east and west sides of 9th Avenue from 3rd Street north to the north side of the hospital to serve

4th Street and 9th Avenue Enhancement Elements

as main pedestrian corridor and a segment of the safe route to schools

Sharedroad pavement markings and associated signage

Directional way-finding at appropriate locations

- 13th Street from Highway 218 to 2nd Ave. on south side and 8th Ave. on north 6-foot-wide ADA-compliant sidewalk on both the north and south sides of side to serve as main pedestrian corridor and a segment of the
 - safe routes to school
- Shared road pavement markings and associated signage to enhance safety Directional way-finding at appropriate locations and branded street signs to enhance community identity
 - High-visibility painted crosswalks at main intersections to enhance safety Street trees to provide shade, assist in traffic calming, and enhance the

improve safety and serve as a way-finding tool to the hospital , Riverside

Park, Vinton Country Club, and the Vinton Community Swimming Pool Decorative lighting with banners can be added along the roadway to

Enhanced hardscape: street and concrete curb and gutter

- Site amenities (i.e., benches, bike racks, trash receptacles) to enhance user aesthetics of the streetscape
 - Seating pads for benches bench located on concrete adjacent to comfort along main pedestrian routes and bike trail
- sidewalk/trail, landscaped on the sides and back with low-maintenance olantings tolerant of conditions

Vinton

Trail Extension + Enhancements

Flenker Land Architects Consultants, LLC LA: Meg Flenker, PLA, CPESC, CPSWQ Interns: Trevor Smith, Mikky Ojha





Existing Huy, 218:photo taken approximately 0.25-dines northwest of Huy, 218 8 ethuy, 150 intersection. near northwest end deternition park area. Photo is looking southersteering roward the Huy, 218 6x Huy, 150 intersection.





ed road shoulder bike lane: Hwy. 218 proposed enhance



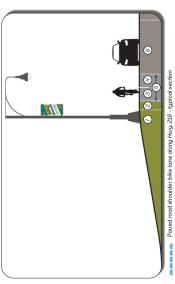
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rated 10-foot wide trail: Hwy. 218 proposed enhanc

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Exempt from the proposed pedestrian circulation map shown on board 9a. This illustrates the location for the papered shoulder bile larent fis proposed to be an interim segment until a spapared frail can be installed in this area as shown on the above exempt.



Trail Extension on Hwy. 218-Paved Shoulder Bike Lane

- Eurnishing zone: Decorative lighting with banners, way-finding signage
 Minimum 2-toot shoulder/clearance from vertical obstruction
 Minimum 4-toot-wide powed shoulder (one-way, one each side of road)
 -1-4 wide buffer with rumble strips and paint markings; signage
 Existing 4-/-8-foot-wide gravel shoulder of road
 Existing driving lane (+/-12' to +/-14')

Ų, **③** --- Separated 10-foot-wide bike trail along Hwy. 218 - typical section (D) 0

Trail Extension on Hwy. 218-Separated 10-foot Bike Trail

- \bigcirc 10-foot-wide paved trail with 2' grass shoulder each side and a minimum 2'-wide clearance from vertical obstruction
- Second yas paperation/furnishing zone (minimum 6-foot width); Decorative lighting with banners, way-finding signage;

 Winimum 2' distance from edge of roadway shoulder and edge of trail

 Existing +/- 8-foot-wide gravel shoulder of road

 Existing driving lane (+/-12' to +/-14')

Trail Extension + Enhancements

Vinton

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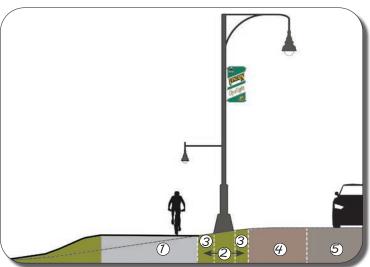
Existing Hwy. 218; photo taken approximately 0.25-miles northwest of Hwy. 218 & Hwy. 150 intersection, near northwest end of detention park area. Photo is looking southeasterly toward the Hwy. 218 & Hwy. 150 intersection.



Separated 10-foot wide trail: Hwy. 218 proposed enhancements



Excerpt from the proposed pedestrian circulation map shown on board 9a. This illustrates the location for the paved shoulder bike lane that is proposed to be an interim segment until a separated trail can be installed in this area as shown on the above excerpt.



Separated 10-foot-wide bike trail along Hwy. 218 typical section

Trail Extension on Hwy. 218- Separated 10-foot Bike Trail

- 10-foot-wide paved trail with 2' grass shoulder each side and a minimum 2'-wide clearance from vertical obstruction
- 2 Roadway separation/furnishing zone (minimum 6-foot width): Decorative lighting with banners, way-finding signs
- 3 Minimum 2' distance from edge of roadway shoulder and edge of trail
- Existing +/- 8-foot-wide gravel shoulder of road
- (5) Existing driving lane (+/- 12' to +/- 14')

Design Expertise Recommended

Projects in their entirety, or portions of them may require help beyond the capability of the Vinton Visioning Committee, available city staff, and/or volunteers. For the **Separated Bike Trail Enhancement** improvement project the visioning committee should expect to engage the services of a landscape architect, surveyor, and civil engineer. The committe can expect that verification of the project and it's layout may be required with the authority that required the mitigation pond.



Hwy. 218 Trail Extension Segment from 13th St. to & Around M		(_	Summer 202
,570 LF Trail ~ 1.06 Miles	Est.	11-24		Estimated		Estimated		Estimated
Description CC Pavement	Qty.	Unit		Unit Cost		Line Total	\$	Totals 465,879.0
Demolition & Earthwork/Grading							\$	165,010.0
- Tree Removal	1	LS	\$	11,300.00	\$	11,300.00	Ψ	100,010.0
- Topsoil, Strip, Salvage and Spread (Assume Avg. 6")	3,460	CY	\$	12.00	\$	41,520.00		
- Special Compaction of Subgrade	5,570	LF	\$	2.00	φ	11,140.00		
- Embankment in Place (25% trail @ Avg. 4' Fill; Contractor provided)	5,600	CY	\$	18.00	\$	100,800.00		
- Embankment in Piace (25% Iran @ Avg. 4 Fill, Contractor provided) - Demolition/Excavation of Existing Drive PCC Drive, 8"	5,000	CY	\$	50.00	\$	250.00		
Driveway Pavement, PCC	3	Cī	₽	30.00	Þ	230.00	đ	1 200 (
	17	0)/	•	77.00	ø	1 200 00	\$	1,309.0
- PCC Driveway Pavement, 6" on Agg. Base Cse. 4"	17	SY	\$	77.00	\$	1,309.00	Φ.	007.040.0
Recreational Trail, PCC, On Grade	/105	0)/	•	40.00	•	007.070.00	\$	297,360.0
- PCC Pavement, 5", 10' Wide	6195	SY	\$	48.00	\$	297,360.00		0.000
ADA Compliant Detectable Warning Panel	40	SF	\$	55.00	\$	2,200.00	\$	2,200.0
ail Landscaping							\$	62,560.0
Landscaping							\$	48,760.0
- Planting Bed Prep & Shredded Hardwood Mulch, 3"	1620	SF	\$		\$	12,960.00		
- Commercial Mowing Edge	770	LF	\$	15.00	\$	11,550.00		
- Street Trees	30	EA	\$	400.00	\$	12,000.00		
- Ornamental Grasses	1	LS	\$	12,250.00	\$	12,250.00		
Urban Seeding							\$	11,600.0
- Seeding and Fertilizing (Urban)& Mulching	1	LS	\$	11,600.00	\$	11,600.00		
Native Seeding	0.1			5 500 00			\$	2,200.0
- Native Prairie	0.4	AC	\$	5,500.00	\$	2,200.00		
ite Amenities							\$	54,000.0
- Benches & PCC Pad	12	EA	\$	2,750.00	\$	33,000.00		
- Trash Receptacle & PCC Pad	6	EA	\$	2,000.00	\$	12,000.00		
- Bike Rack & PCC Pad	3	EA	\$	3,000.00	\$	9,000.00		
Decorative Lighting & Banners (Equipment Only, Not Installed)								TBD
Pedestrian Only Fixture (City Purchase)	TBD	EA	\$	3,000.00		TBD		TBD
Vehicular Only Fixture (City Purchase)	TBD	EA	\$	7,500.00		TBD		TBD
Pedestrian and Vehicular Combo Fixture (City Purchase)	TBD	EA	\$	9,500.00		TBD		TBD
Branded Banners (City Purcase)	TBD	EA	\$	160.00		TBD		TBD
ignage and Markings							\$	8,520.0
Pavement Markings	5.150			1.00		5 / 50 00	\$	6,120.0
- Pavement Markings Lines	5650	LF	\$	1.00	\$	5,650.00		
- Painted Crosswalk (W. 16th St.)	1	LS	\$	470.00	\$	470.00		0 100
Trail Signage				/00.00	_	0.400.00	\$	2,400.0
- Trail Traffic Control Signs	4	EA	\$	600.00	\$	2,400.00	•	457.150.0
Open Ditch to Enclosed Storm Sewer							\$	457,150.0
Open Ditch To Enclosed Storm Sewer Allowance	0710		•	105.00	*	000 750 00	\$	457,150.0
- Storm Sewer	2710	LF	\$	125.00	\$	338,750.00		
- Storm Inlets/Manholes	20	EA	\$	4,000.00	\$	80,000.00		
- Flared End Section	16	EA	\$	2,400.00	\$	38,400.00		
Aiscellaneous (158)	1	10		50 500 00		50 500 00	\$	183,750.0
Erosion & Sediment Control (5%)		LS	\$	52,500.00	\$	52,500.00	\$	52,500.0
Temporary Traffic Control (2.5%)		LS	\$	26,250.00	\$	26,250.00	\$	26,250.0
Mobilization (10%)	I	LS	\$	105,000.00	\$	105,000.00	\$	105,000.0
								,
						Subtotal		1,231,859.0
						y Allowance	_	369,557.7
						g Allowance		240,212.5
	(Opinion	of To	tal Probable	Con	struction Cost	\$	1,841,629.2





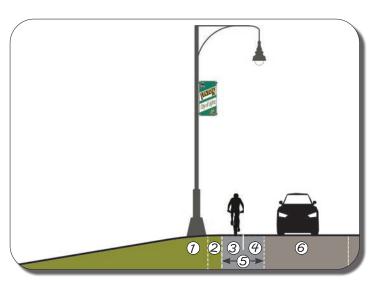
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Paved road shoulder bike lane along Hwy. 218 - typical section



Excerpt from the proposed pedestrian circulation map shown on board 9a. This illustrates the location for the paved shoulder bike lane that is proposed to be an interim segment until a separated trail can be installed in this area as shown on the above excerpt.



 Paved road shoulder bike lane along Hwy. 218 typical section

Trail Extension on Hwy. 218-Paved Shoulder Bike Lane

- ① Furnishing zone: Decorative lighting with banners, way-finding signage
- 2 Minimum 2-foot shoulder/clearance from vertical obstruction
- 3 Minimum 4-foot-wide paved shoulder (one-way, one each side of road)
- #/- 4' wide buffer with rumble strips and paint markings; signage
- ⑤ Existing +/- 8-foot-wide gravel shoulder of road
- 6 Existing driving lane (+/- 12' to +/- 14')



Design Expertise Recommended

Projects in their entirety, or portions of them may require help beyond the capability of the Vinton Visioning Committee, available city staff, and/or volunteers. For the **Paved Shoulder Bike Lane Enhancement** project the visioning committee should expect to engage the services of a landscape architect, surveyor, and civil engineer.

The committee can expect that they will have to coordinate with the lowa DOT District Engineer and possibly the Benton County Engineer; IDOT permitting may also be required.

Opinion of Probable Construction Cost

To Be Determined



Trail Planning Cost Tool

The following information is taken from the most recent lowa Department of Transportation's lowa Bicycle and Pedestrian Long-Range Plan. This plan is dated December 11, 2018.

Cost estimates

While every trail is unique, it is possible to estimate an approximate cost per mile based on historical project data. In recent years, hundreds of miles of trail have been constructed in lowa. An analysis of the construction costs shows that trails built on abandoned railroad grades are less expensive per mile than trails built on virgin land, while trails in cities or those requiring significant grading are among the most expensive.

Per mile costs for varying types of accommodations, based on recent historical construction costs, are presented in the following table. The modification factors are multipliers used to adjust the base cost per mile depending on varying conditions. For example, the typical cost per mile for a multi-use trail on former railroad grade is \$200,000 (0.5 modification factor times the \$400,000 base cost) and the typical cost per mile for a new sidepath along a rural roadway is \$480,000 (1.6 times \$300,000).

Table 5.2: Typical per mile cost estimates for multi-use trails based on historic costs in low

Facility Type	Typical Cost per Mile	Modification Factors	
New paved multi-use	\$400,000	Former RR grade	0.5
trail on independent		Flat terrain	0.6
alignment, 10' wide		Rolling terrain	1.0
		Hilly terrain	1.2
		Along stream bank	1.2
		Densely developed area	2.0
New paved sidepath,	\$300,000	Along urban roadway	1.0
10' wide		Along rural roadway	1.6
		Densely developed area	1.4
Upaved multi-use	\$200,000	Former RR grade	0.6
trail		Flat terrain	1.0
		Rolling terrain	1.2
		Hilly terrain	1.4

Table 5.5: National Trail and USBRS per-mile cost estimates based on historic costs in Iowa

Facility Type	Typical Cost per Mile	Modification Factors	
New paved multi-use	\$400,000	Former RR grade	0.5
trail on independent		Flat terrain	0.6
alignment, 10' wide		Rolling terrain	1.0
		Hilly terrain	1.2
		Along stream bank	1.2
		Densely developed area	2.0
New paved sidepath,	\$300,000	Along urban roadway	1.0
10' wide		Along rural roadway	1.6
		Densely developed area	1.4
New paved	\$175,000*	Adequate shoulder width present	1.0
shoulders, 5' wide		Embankment widening required	2.0
both sides		As a standalone project	1.2
		(not part of a larger 3R** project)	
Shared Lane/Road	\$500	Rural route generally follows one road	1.0
		with few turns (wayfinding signage)	
		Rural route includes many turns onto	2.0
		different roads (wayfinding signage)	
		Urban Route (wayfinding signage and shared lane markings)	10.0

^{*} The probable course of implementation is to provide paved shoulders as part of future reconstruction work during which paved shoulders would likely be provided anyway based on traffic volume. Paved shoulders provide many benefits such as reduced maintenance costs, reduction in run-off-road crashes, etc., so these costs should not be seen as solely for the benefit of bicycling and walking.

^{**} Resurfacing, restoration, or rehabilitation. These projects are less intensive than reconstruction projects and are typically budgeted and scheduled the same year that they are completed



Implementation Strategies

The Visioning Program is just the beginning of the planning process for implementation of projects that will contribute to an enhanced quality of life in Vinton. Although there is much value in data gathering, analysis, conclusions and recommendations, the greatest value is providing the residents of Vinton 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 of community resources.

Expertise from a team of allied professions may be needed to successfully design and implement several of the identified improvement projects. A landscape architecture consultant is best suited to lead and manage the design process. This helps ensure that the community's goals 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.

It is recommended that projects be approached individually, keeping in mind some may occur at the same time or may require phasing to be completed. Short term projects are those that can be more easily accomplished or address safety issues. Long range projects will need to be implemented based on available funds and agreements with private landowners. Based on the strategy that early success builds momentum, we recommend the first projects be those that can be more easily accomplished and be highly visible.

Implementation Strategy Overview

Step One

Identify a Community Steering Committee to continue the momentum of the Community Visioning process. This group or groups will oversee the selection, planning and development of the projects.

Step Two

Develop a list that ranks all of the projects outlined in the feasibility study. This list will help prioritize goal setting, planning, and funding. Remember that each concept outlined in the feasibility study can be broken down in to smaller parts and phased.



Step Three

Identify a project to be implemented. Start with a small scale project such as way-finding signage or crosswalks, or an addition to a project that the city is already planning. Implementation of a small project can have a larger catalytic effect. It creates a visible statement that change is happening, keeps the momentum going and can be a great motivation for building support and funding for future projects. Determine whether further design or planning is needed.

Step Four

With each project, identify potential funding sources to finance the implementation of a small scale catalyst project and the higher priority projects.

Step Five

Once a grant, loan or other funding source has been secured, develop a plan for contracting for additional design, advertising for bid and contracting for construction of the project.

Step Six

Select and contract with a landscape architect or design professional as your lead design consultant for the identified community improvement project. Allow 3-6 months in the project timeline for design and construction documentation development.

Step Seven

Advertise and solicit competitive bids from contractors experienced in the type of work being bid. Allow 1-2 months in the project timeline for the bidding process, contractor selection, and execution of contract with a general contractor for the identified community improvement project. Allow 3-9 months in the project timeline for the construction of the project. The time required for the construction will be dependent upon the scope, size and complexity of the project.

Step Eight

Repeat the steps as each new project is determined

Implementation Timeline

Typical Timeline from Start of Design to Final Project Construction

Selection and Execution of Contract with Designer	1 - 3 months
Design and Construction Document Development:	3 - 6 months
Project Bidding and Contractor Selection:	1-3 months
Construction:	3 - 10 months

8 - 22 months

Step 6: Project Closeout (Final Completed Project)















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Interns: Trevor Smith, Mikky Ojha

Implementation

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costs of identified projects, and prioritize the top three TASK Schedule monthly steering committee meetings. projects for design refinement and implementation.

implementation and identify all applicable and eligible Determine the most practical first project for ξM

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

architect, submit application(s) for eligible and related Upon a successful grant application and securing grant programs.

and construction, and select and execute a contract with alandscape architect as the lead design consultant. Step funding, develop a schedule for project design, biddir ₹**4**

Year 2:

Reassess top three priority projects based on grant application success and repeat Task 2-4 for a second



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
- · 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 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)