

RAISE Capital Grant: Project Description

Dyersville

Enhancing Multimodal Connections in Dyersville | Project Description

Dyersville, Iowa, seeks \$25,000,000 in Rebuilding American Infrastructure with Sustainability and Equity (RAISE) Grant funds to implement the Enhancing Multimodal Connections in Dyersville Project. This generational investment in rural Iowa will enhance the quality of life, improve resiliency, and increase safety by building connections for vehicles, pedestrians, cyclists, and emergency response personnel. This project involves four distinct components, including bridges that cross the North Fork Maquoketa River and Bear Creek; an overpass that eliminates an atgrade Canadian National (CN) Railway crossing; miles of wide, accessible trails that connect neighborhoods and parks with commercial hubs; and the installation of an electric vehicle (EV) charging station in the heart of town. Each of these components is described in Figure 1 and the detailed scope of work narrative.

The project is the culmination of more than 12 years of research, public involvement, and planning, and its components are the foundational elements necessary for the city of Dyersville (City) to provide consistent, reliable, equitable, and sustainable multimodal connections and access to services and opportunities. Dyersville, a rural midwestern city of roughly 4,500 people, sits in the heart of northeast lowa along US-20. Dyersville is steeped in history and heritage and is most famously known as home to the iconic Field of Dreams movie site. The city's blend of natural beauty, cultural attractions, and small-town charm make it a baseball tourist mecca, hosting over 275,000 visitors a year. Dyersville's natural topography includes the convergence of two waterways, Bear Creek and the North Fork Maquoketa River. These waterways, which overtop routinely, create an isolating natural barrier that must be spanned. Flash flooding is a continual concern and the City has spent decades working to manage the impact of flooding on the community.

The City requested assistance from the U.S. Army Corps of Engineers to evaluate flood reduction alternatives. The 2004 "Initial Assessment Report for Flood Damage Reduction" (CWIS No. 179046) recommended Dyersville pursue raising roads, constructing larger drainage structures, implementing a flood-warning system, developing a watershed management plan, encouraging citizens to move out of the floodplain, and using floodplain areas for recreational amenities. Since this report, the City has invested in implementing all these suggestions as flood frequency and severity have continued to increase.

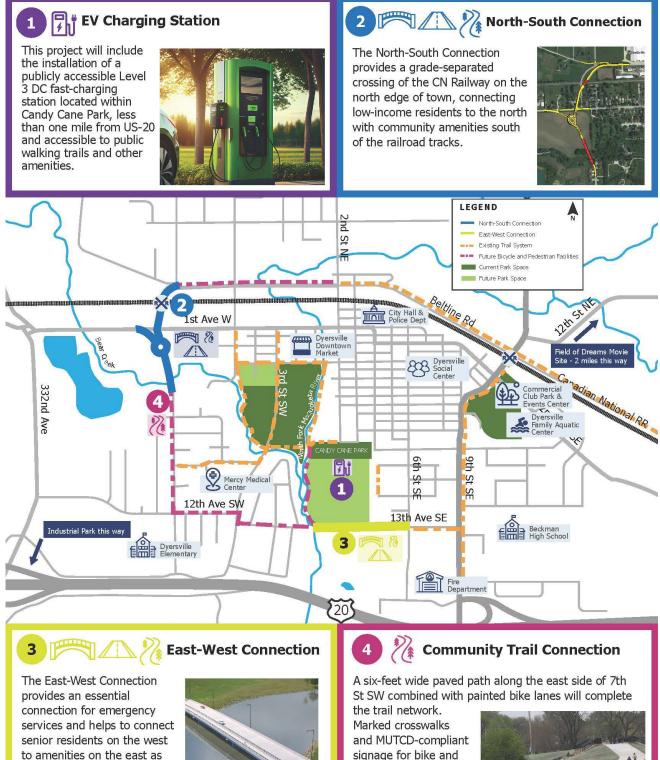
The City's planning efforts have grown beyond flood mitigation and include a hazard mitigation plan (2011), visioning and transportation plans (2011, 2012), regional and local comprehensive plans (2013, 2018), a housing study (2017), a watershed vision plan (2021) and numerous smaller traffic, structural, environmental, economic development, and tourism studies and reports. These plans have identified the critical connectivity components included in this application as top priorities. In addition, these efforts revealed opportunities to support community growth and development. The 2018 Comprehensive Plan was the catalyst for the City's investment in the preliminary design of critical road and bridge projects and the preservation of necessary right-of-way.

The improvements constructed as a part of this project will build resilient, sustainable infrastructure that supports all residents and the additional 275,000 tourists that visit it each year. The completed trail network in Dyersville will also connect to the 30-mile regional Heritage Trail. Roadway and pedestrian facility improvements will support tourism related to the Field of Dreams movie site. The City of Dyersville is currently implementing \$55 million of improvements, including

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a new professional baseball park in the next 24 months, which will increase tourism traffic even more.

Figure 1: Enhancing Multimodal Connections in Dyersville Project Components Map



well as students from the residential areas on the east to Dyersville Elementary School on the west.



pedestrian areas will

raise awareness of the

presence of vulnerable

road users.

2

4%

1113

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Detailed Scope of Work

The Enhancing Multimodal Connections in Dyersville Project involves four components, detailed in Figure 1. Completed construction of all components is anticipated by the end of 2027 if funding is awarded.

Existing Transportation Challenges

The CN railroad line creates multiple railroad conflict locations. The nearest grade-separated crossing is 5 miles west of Dyersville. In the event the railroad blocks primary routes, emergency medical services (EMS) do not have direct secondary routes within the community. Floods and railroad closures force long extended detours. Dyersville has experienced 6 major flood events since 2000, isolating residential neighborhoods and vastly extending EMS response times. Lack of bicycle and pedestrian facilities and connections limit safe multimodal transportation options. Additionally, there is no charging infrastructure available for the fast-growing electric vehicle fleet. Currently, funding to support the implementation of this project is not sufficient.

Proposed Project Component Solutions

Component 1 – EV Charging Station (Candy Cane Park)

This project will include a publicly accessible Level 3 DC fast-charging station located within Candy Cane Park, which is less than 1 mile from US-20 and accessible to public walking trails and other amenities. The charging station will be built to accommodate two (2) 150 kW (300 kW total) ports simultaneously and operated and maintained similarly to the requirements of the National Electric Vehicle Infrastructure (NEVI) program for reliable charging. The City has a dedicated operation and maintenance budget allocated to service the chargers at this location after initial construction.

Project development is currently 15 percent complete, with early concept development and site assessment completed. An environmental review will be conducted as part of the preliminary design phase for this component. The project will be evaluated and cleared through a Programmatic Categorical Exclusion (PCE). The City anticipates partnering with an Electric Vehicle Supply Equipment (EVSE) provider to install, operate, and maintain the charging equipment.

Component 2 – **North-South Connection (7th Street SW to 1st Avenue W, Beltline Road Overpass)** The new North-South Connection is the first critical flood-resilience project corridor. The corridor would include:

- A new bridge, road, and trail over Bear Creek that aligns with the existing 7th Street SW in the form of 518-foot-long, multi-span, prestressed concrete beam (PPCB) bridge, which also includes realignment of Bear Creek for conformance to the Department of Natural Resources (DNR) Requirements of floodway conveyance, clearance of the paddle trail, and no-rise criteria
- A new urban roadway and trail overpass that eliminates an at-grade crossing of Beltline Road and the CN Railway. This includes a 32-foot-wide roadway with 10-foot-wide multi-use trail with 1-foot shoulders and a 110-foot-long, single-span, steel girder bridge over CN railroad
- New roundabout to raise and realign the intersection of 7th Street SW, 1st Avenue W and Beltline Road, while also reducing vehicle conflict points and crash risk

In combination, these corridor elements:

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- Create a reliable linkage between the southwest and northside neighborhoods and adjacent industrial area, even during flood events
- Establish a secondary north-south route that supports emergency service access in case of accidents or train blockage of US-52
- Provide access to areas of Dyersville that have historically been completely cut off from emergency services and other vital access during flood events.
- Create the first, and only, grade-separated railroad crossing within 5 miles of Dyersville
- Connect Dyersville's trail system to the 30-mile-long regional Heritage Trail

Project development of Component 2 is approximately 20 percent complete, including the establishment of the bridge type, size and location (TS&L). Active coordination with DNR related to the floodplain accommodations are progressing. It is anticipated that coordination with FEMA on a Conditional Letter of Map Revision (CLOMR) will need to be conducted as well.

Component 3 — East-West Connection (13th Ave SE to 12th Ave SW)

The new East-West Connection is a second critical flood resilience project identified during planning work and will create a reliable multimodal link and critical EMS connection between the southwest neighborhoods, hospitals, fire, and police. Preliminary design is complete, and ROW is owned by the City.

This new corridor connects 13th Avenue SE and 12th Avenue SW over the North Fork Maquoketa River and includes:

- 511-foot-long, multi-span, PPCB primary bridge and 232-foot-long PPCB secondary bridge to meet the conveyance requirement and no-rise criteria established by Iowa DNR as well as meeting the height requirements for the established paddle trail. The new roadway elevation is currently modeled to provide access for emergency services up to the 100-year flood elevation to provide additional local system redundancy during flooding events.
- 34-foot-wide roadway with a protected 10-foot-wide multi-use trail with 1-foot shoulders.
- Roadway lighting
- New urban curb and gutter roadway section with storm sewer and subdrains

Environmental field studies have been completed and the Categorical Exclusion (CE) documentation is currently underway, with overall project development progressed to 30 percent complete for Component 3. Concurrence on methodology has also been received from DNR for the hydraulic modeling for conformance to DNR requirements of floodway conveyance, clearance of the paddle trail, no-rise criteria, and is ready to advance to the CLOMR process.

Component 4 – Community Trail Connections (multiple locations)

This project will fill in major gaps in the city's existing bicycle and pedestrian network, Planning efforts have consistently identified the need for a cohesive multimodal network. In 2018, 52 percent of the Dyersville community identified "Improving and Increasing Active Transportation" as a plan priority (2018 Comprehensive Plan). The biggest gaps in the trail network are addressed in this project. The addition of wayfinding signage will encourage these alternate travel methods and allow for accessible, easy-to-navigate transportation options in town.

An additional 2.5 miles of trails, wide sidewalks, and buffered bike lanes will be added at key areas to complete both north-south and east-west connections across town and include crosswalks, accessible ramps and some pedestrian signals. This additional 2.5 miles of

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dedicated path will build out the transportation network, unlocking unrestricted access to an additional 30+ miles of regional trails. These areas, outlined in Figure 3, include:

- 13th Avenue SE between 6th Street SE and the east end of the new East-West Connector. Pedestrian traffic control signals at the US-52 intersection will include ADA compliant ramps.
- Dyersville Park Trail, a new segment from the west end of the East-West Connector bridge along the river, terminating at Candy Cane Park and the existing trail network.
- 12th Avenue SW from the west end of the East-West Connector
- 7th Street SW, including bike lanes painted between 12th Avenue SW and the south end of the proposed bridge over Bear Creek and sidewalks to fill in gaps between 9th Avenue SW and the south end of the Bear Creek Bridge
- Beltline Segment, a new trail along Beltline Road connecting to 2nd Street NE

The development of Component 4 is 10 percent complete. Cost has been estimated off conceptual plans. PCE is anticipated for NEPA.

Project History and Community Engagement

The City has invested heavily in the development of the project components since 2018. In that time, the City has developed conceptual and preliminary design for the project components, conducted public involvement, and initiated NEPA review. Additionally, Dyersville has organized public engagement efforts through presentations and public discussion at public meetings and public hearings, as well as interviews with key residential organizations. In addition to traditional input methods, the City contracted with a professional public involvement consultant to conduct demographic analysis and targeted outreach to vulnerable populations and service providers to understand travel patterns and unique challenges to inform the project design. The Demographic Profile and Transportation Access Impacts Report is included as Appendix C.

Project Location and Census Geography

The project is in Dyersville, Iowa, a rural city located in eastern Delaware County and Western Dubuque County, which have a combined population of 116,228. The project has components in both counties. A project location KMZ file is included as a project file attachment.

While many rural communities are shrinking, Dyersville's population grew by 10 percent from 2010 to 2020 (from 4,000 to 4,500 citizens), also resulting in a more diverse demographic. Census data shows the minority population has tripled in the last 10 years (from 0.9 percent to 6.57 percent) and nearly 20 percent of the city's population is over the age of 65.

The project location is primarily located in Census Tract 105, with a small portion in Census Tract 9501. This is not an Area of Persistent Poverty, a Historically Disadvantaged Community, or a Census-Designated Urban Area, as designated by USDOT. While Dyersville is not an Area of Persistent Poverty, there are pockets of the community where poverty is present. The northwest corner has consistently had around 11 percent of households living below the poverty level in the past 12 months. Providing equitable access to community resources, emergency services, housing and job options, schools, recreational activities, and regional trails will allow Dyersville to grow in a manner that supports all groups in the community.