

WELCOME

VIRTUAL MEETING WILL BEGIN AT

11:30 AM Central

Society of American Military Engineers

Omaha Post

January 11th Meeting



Omaha Post Meeting

**Society of American Military Engineers
Omaha Post & Nebraska Society of Professional Engineers (NeSPE)
January 11th, 2024 Joint Meeting**

Meeting Agenda

- Pledge of Allegiance
- New Member/ Guest Introductions
- Invocation
- Lunch
- Announcements
- Membership Spotlight
- Presentation
- Q&A
- Split Kitty Drawing
- Closing Remarks

Pledge of Allegiance



I pledge allegiance to the Flag of the United States of America, and to the Republic for which it stands, one Nation under God, indivisible, with liberty and justice for all.

Introductions

- Welcome NeSPE Members
- Welcome SAME Student Chapter Members
- Welcome New SAME Members
- Introduction of Guests

Invocation

Please join us in the invocation before we dismiss for lunch

Lunch

Dismiss by table

Announcements

■ E-Week 2024 Banquet

- ▶ Evening of February 22nd, 2024 @ Oak Hills
- ▶ Registration Open Now, \$50 couple, \$30 individual
- ▶ Sponsorships Available - \$500 Gold, \$250 Silver

■ SMP Workshop with USACE

- ▶ February 27th, Relevant Center – Elkhorn
- ⑩ Volunteer opportunities

Announcements

- **March Membership Meeting**

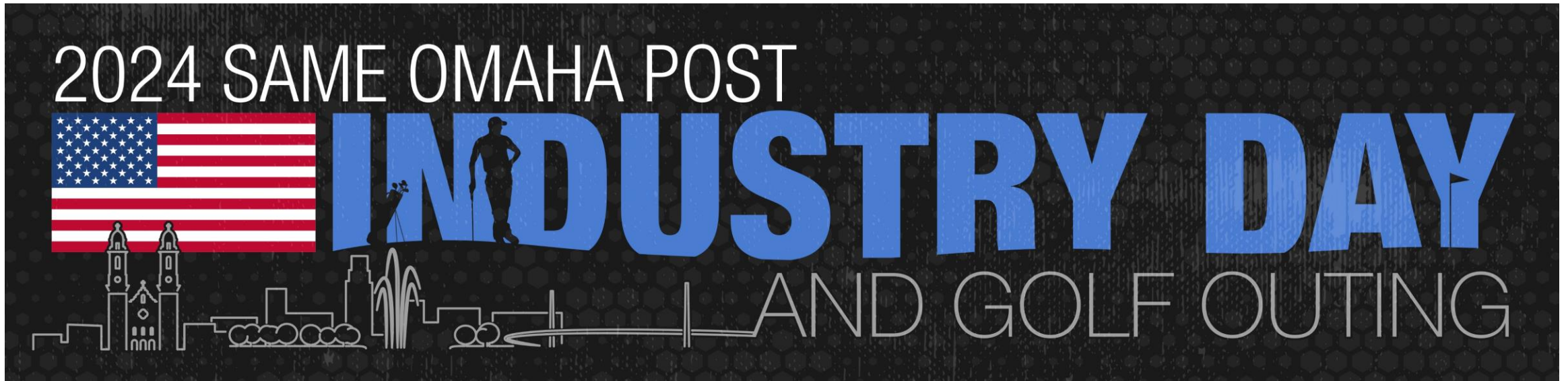
- ▶ March 12th @ Field Club of Omaha
- ▶ Topic: Air Force Academy Cadet Chapel Restoration

- **USACE Missouri River Regional Event**

- ▶ March 21st, 2024 @ Orlando's Event Center (Maryland Heights, MO) - In-person and virtual attendance options will be available
- ▶ Topic: GA West and John Cochran VA Hospital Project Updates

Announcements

- **Omaha Industry Days**
 - ▶ May 29th-May 31st, 2024 at CHI Center



Membership Spotlight



BLACK & VEATCH

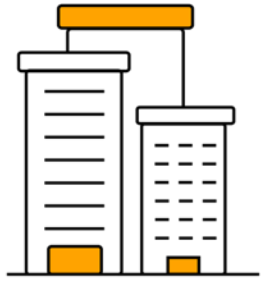
Meet Black & Veatch

Julie Eiter, PE, LEED AP

Federal Regional Director, Business Development

Black & Veatch Today

120+
Offices



and

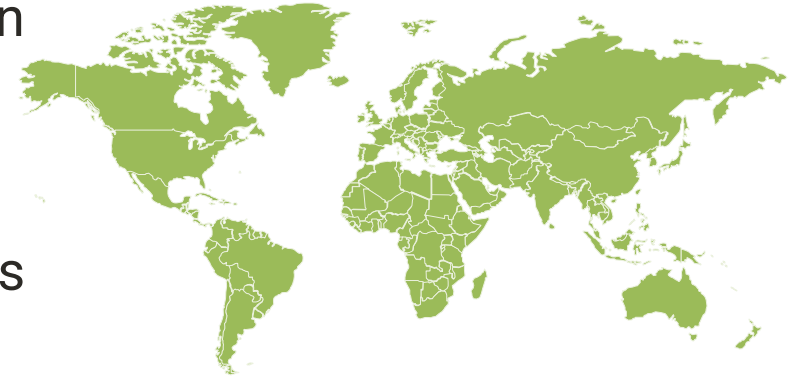


11,000+
Professionals

\$4.3B
Revenue in 2022

Founded
1915

Projects on
6
Continents



8th largest
100% employee-owned
company in the U.S.

voted

2022 Best Places to Work
for LGBTQ Equality

7,000 Active Projects
Worldwide

ENR Rankings:

Ranked #13 in Top 500 Design Firms
Power #2
Telecom #6
Hydro Plants #4
Solar Power #2
Government Offices #7
Water Supply #8



Headquarters Facilities



Military & Mission Critical



Aviation



Civil Works



Missile Defense Facilities



Army Ammunition Plants



Infrastructure



Master Planning



EV Infrastructure



Energy Security & Resiliency



Microgrids



Cybersecurity

Integrated Solutions

- Advisory & Assistance Services
- Biodefense
- BioSafety & Security
- Cybersecurity
- Information Technology
- International Development
- Management & Operations
- Physical Security
- Sciences
- Threat Reduction



Other Specialty Areas

- Blast Threat / Containment
- AT/FP
- Disaster Assistance & Recovery
- Sciences / Laboratory
- Seismic Risk Category V
- HEMP /RFI Shielding
- Reliability, Availability and Maintainability (RAM) Analysis / Failure Mode Effect Criticality Analysis (FMECA)
- Computational Fluid Dynamics (CFD) Modeling



Applewood Creek Trail Federal Aid Project

Doug Holle, PE

Executive V.P. of Engineering, Schemmer

&

Craig Mielke, PWS

Senior Project Manager, Benesch

SAME/NSPE Monthly Meeting January 11, 2024

APPLEWOOD CREEK TRAIL PORTAL GREENWAY



SCH_{EM}MMER

Practice Areas

ARCHITECTURE

ENGINEERING

CONSTRUCTION FIELD SERVICES



Design with Purpose, Build with Confidence

www.schemmer.com



Doug Holle, PE

Trail Focus for 25 Years:

Applewood Creek Trail, La Vista

Stonebridge Trail, Lincoln

Elkhorn River Trail, Norfolk

State Street Connector Trail, Grand Island

Hannibal Park Trail, Beatrice

Hickman Road Trail, Hickman

Steinhart Park Trail, Nebraska City

Marv Holubar Trail, Sarpy County

Murdock Trail, Lincoln

27 Years of Experience

BS, Civil Engineering

UNL

SCH_{EMMER}

Design with Purpose. Build with Confidence.

ENR

TOP 500 DESIGN FIRMS

#101



benesch

Practice Areas

TRANSPORTATION

Aviation | Bridges | Railroads | Roads | Transit

COMMUNITIES

Community Development | Public Infrastructure
Private Development | Parks & Recreation

ENVIRONMENTAL & WATER

Environmental Management | Potable Water
Storm Water | Wastewater



Value Focused. Community Minded. Quality Driven.

www.benesch.com



Craig Mielke, PWS

Environmental Lead on Hundreds of Miles of Trails:

Applewood Creek Trail, La Vista

All-American Trail, South Sioux City

South Sioux City Riverview Trail, South Sioux City

Cauble Creek Trail, Blair

Bison Trail, Lincoln

Ralston Creek Trail, Ralston

**Nebraska Game and Parks Commission's
Recreational Trails Program (RTP)**

**South Omaha Veteran's Memorial Bridge, Omaha
168th Street, Omaha**

25 Years of Experience



**BS, Natural Resources
& Environmental Sciences**

Project Background



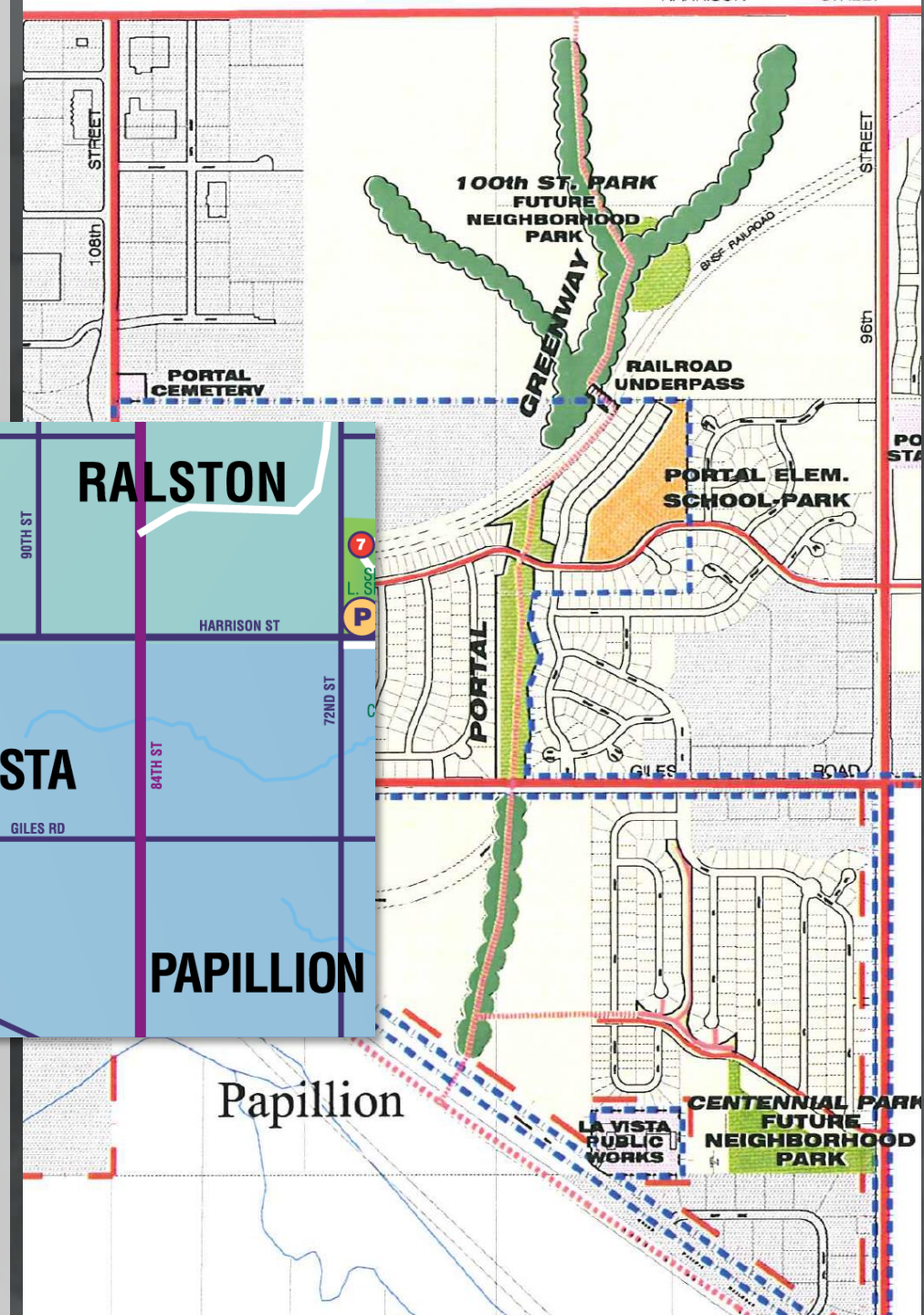
Provides Regional Connectivity










In the City's Recreation Master Plan

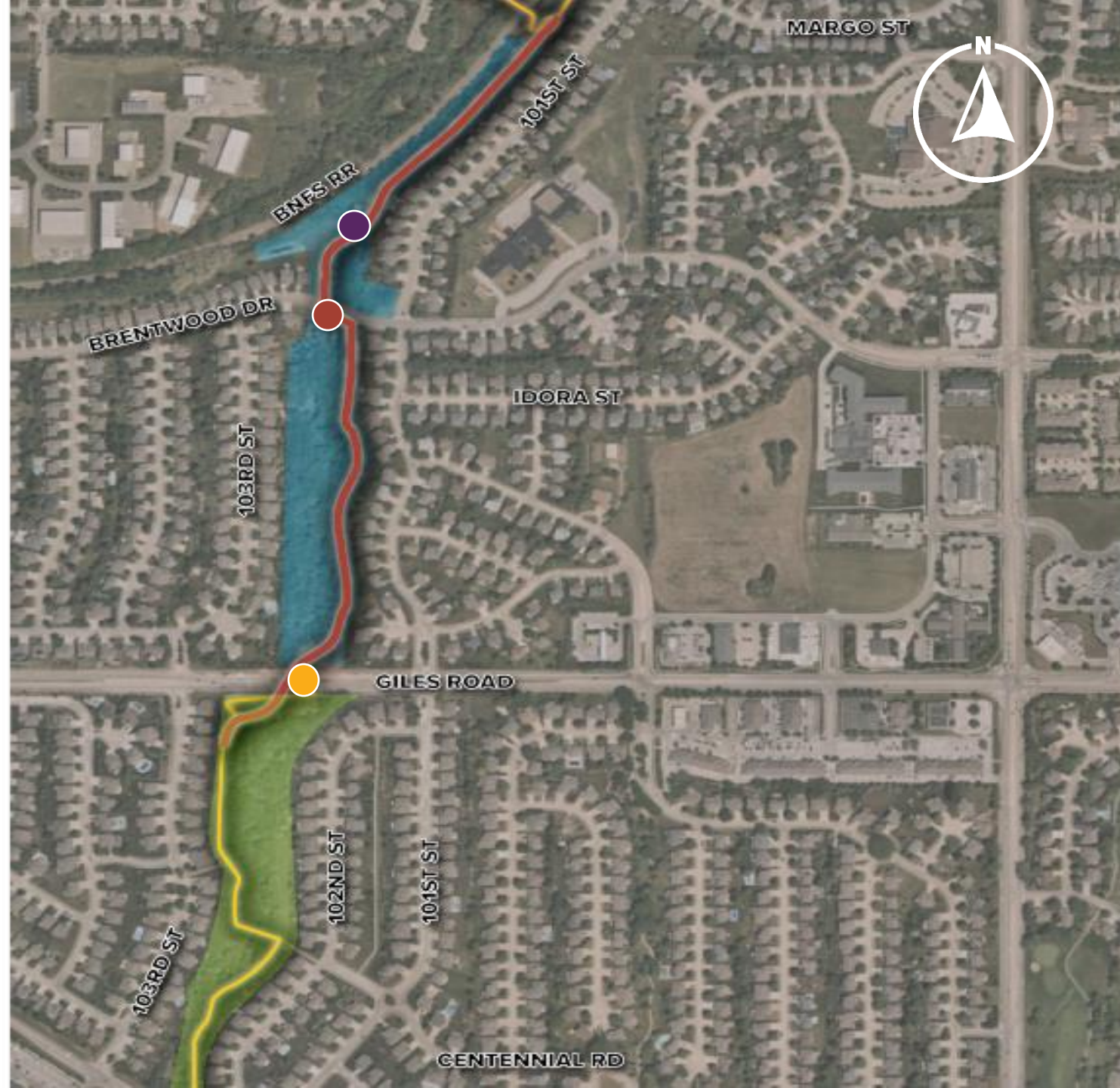


Previous Segments Built by SIDs



The Plan

-  New Trail
-  Existing Trail
-  Portal Greenway
-  SID 276 Greenway
-  Pedestrian Bridge
-  At-Grade Crossing
-  Underpass



Funding Approved 2018

Design NTP Spring 2019

NEBRASKA

Good Life. Great Journey.

DEPARTMENT OF TRANSPORTATION

NDOT Form 53

Probable Class of NEPA Action

*Attach the NDOT-530 for an LPA project, NDOT-73 for a State project, and an aerial location map of the project which includes project start and end points.

Date this form was completed: 11/15/2018	Control Number: 22757	Project No.: TAP-77(61)
Project Name: Applewood Creek Trail, LaVista		

LPA Project State Project

Local Public Agency or NDOT district and county where project is located: City of La Vista, Sarpy County		
Answer the following questions: (See Instructions)	Yes	No
1. Would the project construct a new roadway on a new location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
a. If yes, would the new roadway have 4 or more lanes?	<input type="checkbox"/>	<input type="checkbox"/>
2. Would the project create a new access controlled freeway facility?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Would the project include a new interchange?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Is it likely the project would disturb any ground outside the existing paved roadway surface?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is it likely the project would add capacity (adding thru lanes to a road, fly-by lane, passing lane, auxiliary or turn lane that is > or = 1 mile in length) to an existing roadway?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Is it likely the project would close a road, bridge, or access for more than 3 consecutive days?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Is it likely the project would disturb natural ground (soil) below or beyond existing fill material?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ON-CALL PROFESSIONAL SERVICES TASK ORDER AGREEMENT LPA PROJECTS

CITY OF LA VISTA
SCHEMMER ASSOCIATES, INC.
PROJECT NO. TAP-77(61)
CONTROL NO. 22757
APPLEWOOD CREEK TRAIL

SCHEMMER

Design with Purpose. Build with Confidence.

Project Location



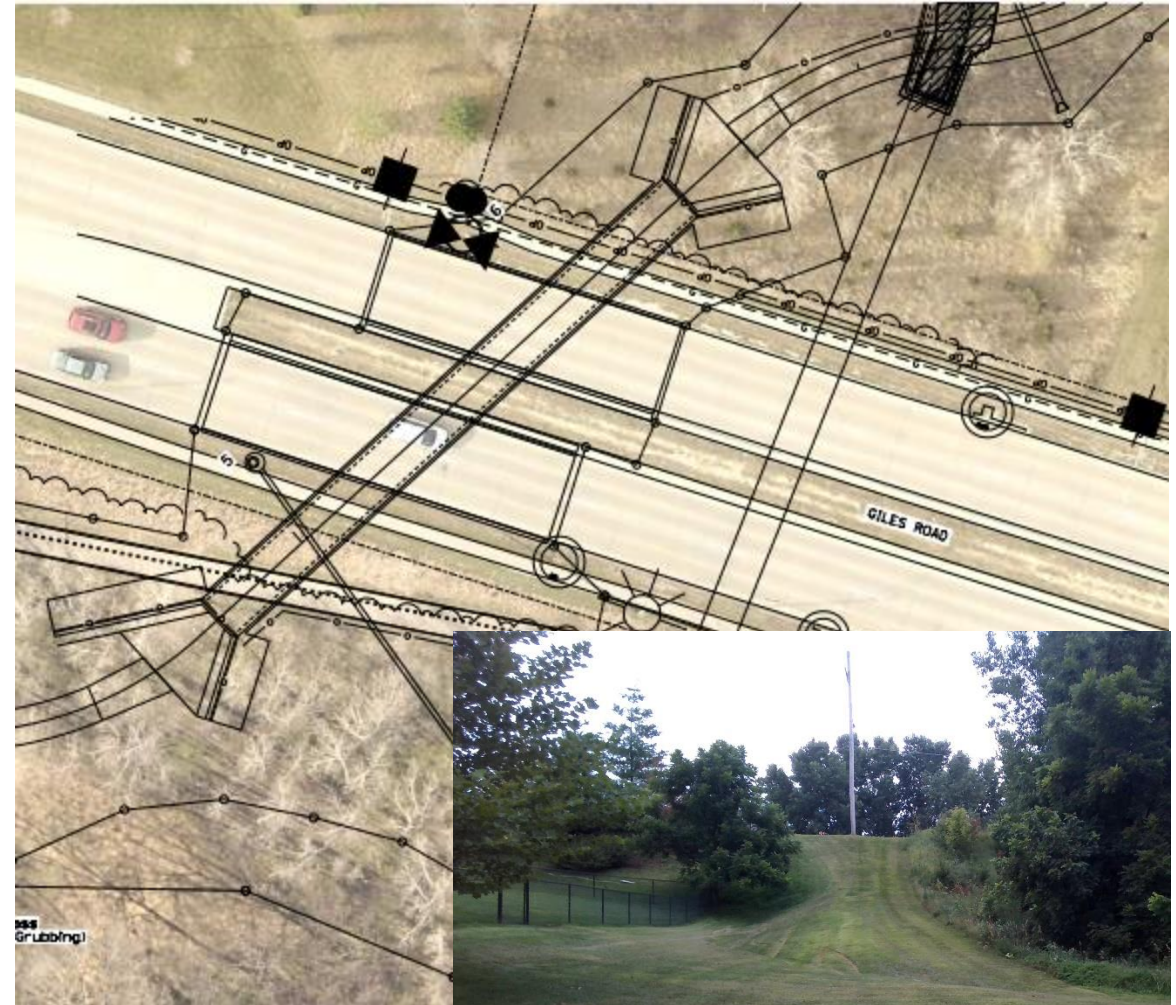
Design Challenges

- Minimize Traffic Impact
 - ~15,000 vpd (Giles)
- Minimize Utility Impact
- Obtain Stakeholder Buy-in



Minimize Traffic Impacts?

- Underpass Construction Options
 - Close Giles
 - Phase Construction Under Giles Rd.
 - Jack a Steel/concrete Pipe
- Items Considered
 - User Costs
 - Constructability
 - Contractor Availability/Competition
 - Utilities
 - Risk
- Selected Open Cut/phased Giles Rd.



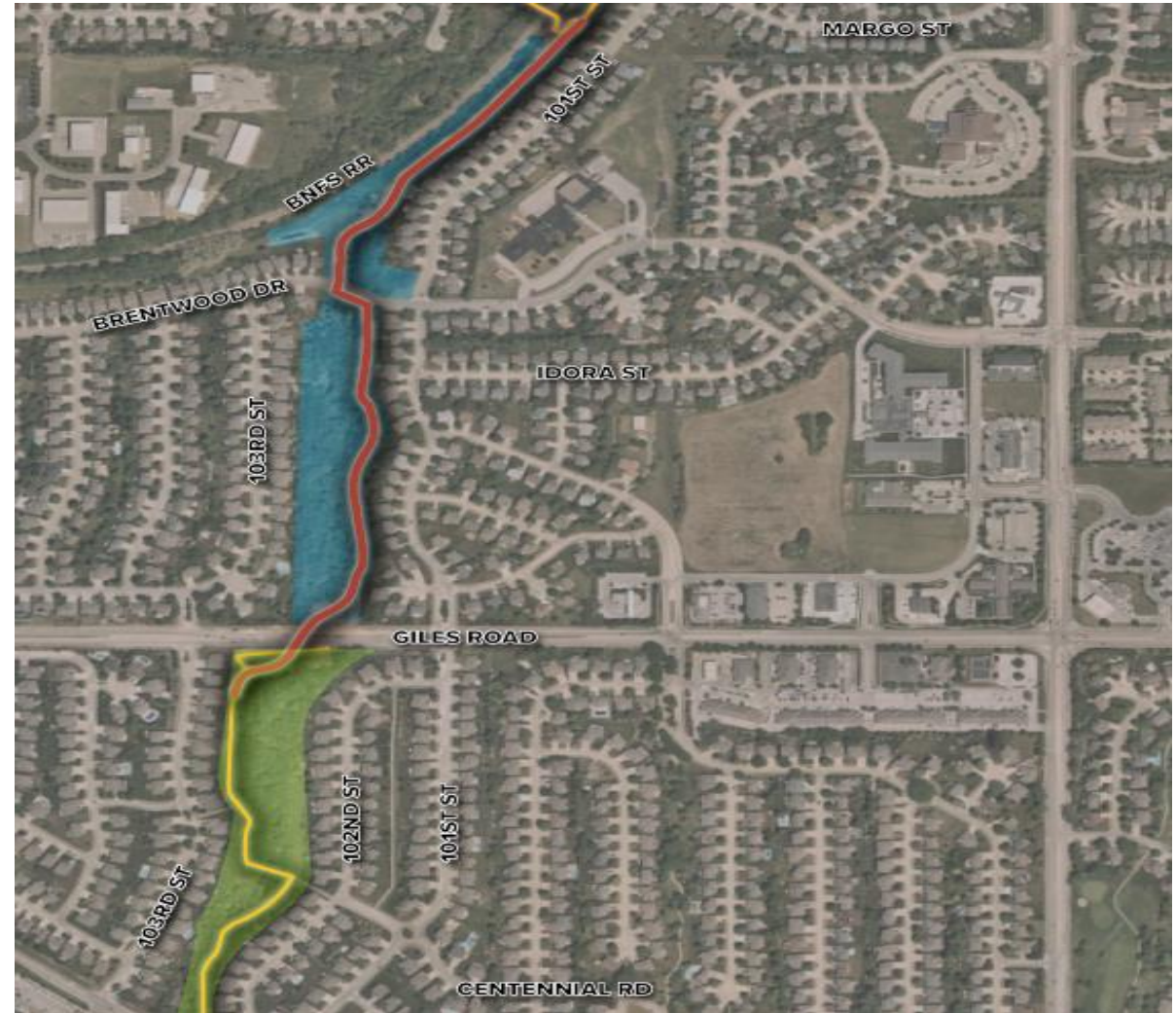
Minimize Utility Impacts?

- Seven Utilities Impacted
 - Early Coordination
 - Temporary Water Main Shutdown
- 20 ft. Deep Trench
- ~60 ft. Wide Trench



Obtain Stakeholder Buy-in?

- City Owned Property



Obtain Stakeholder Buy-in?

- City Owned Property

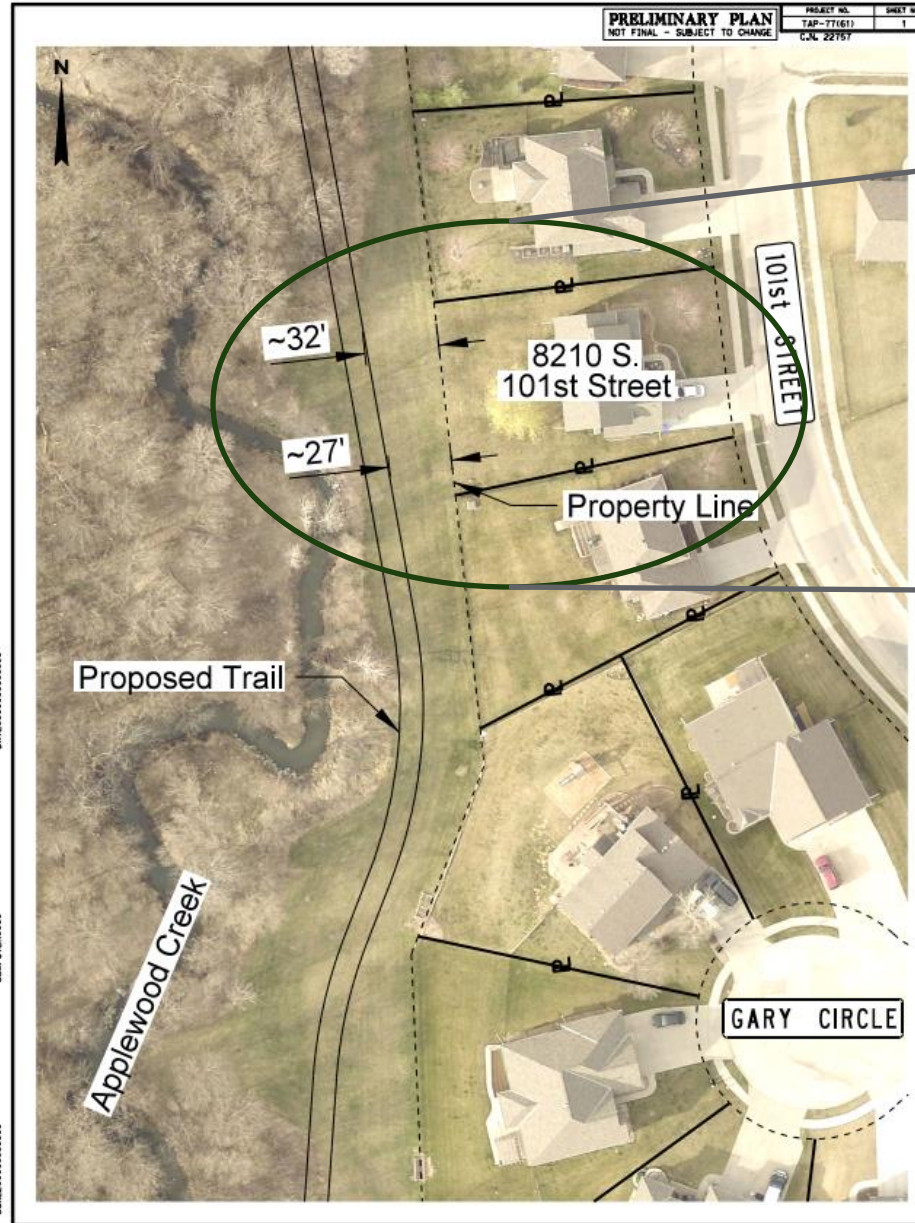


Obtain Stakeholder Buy-in?



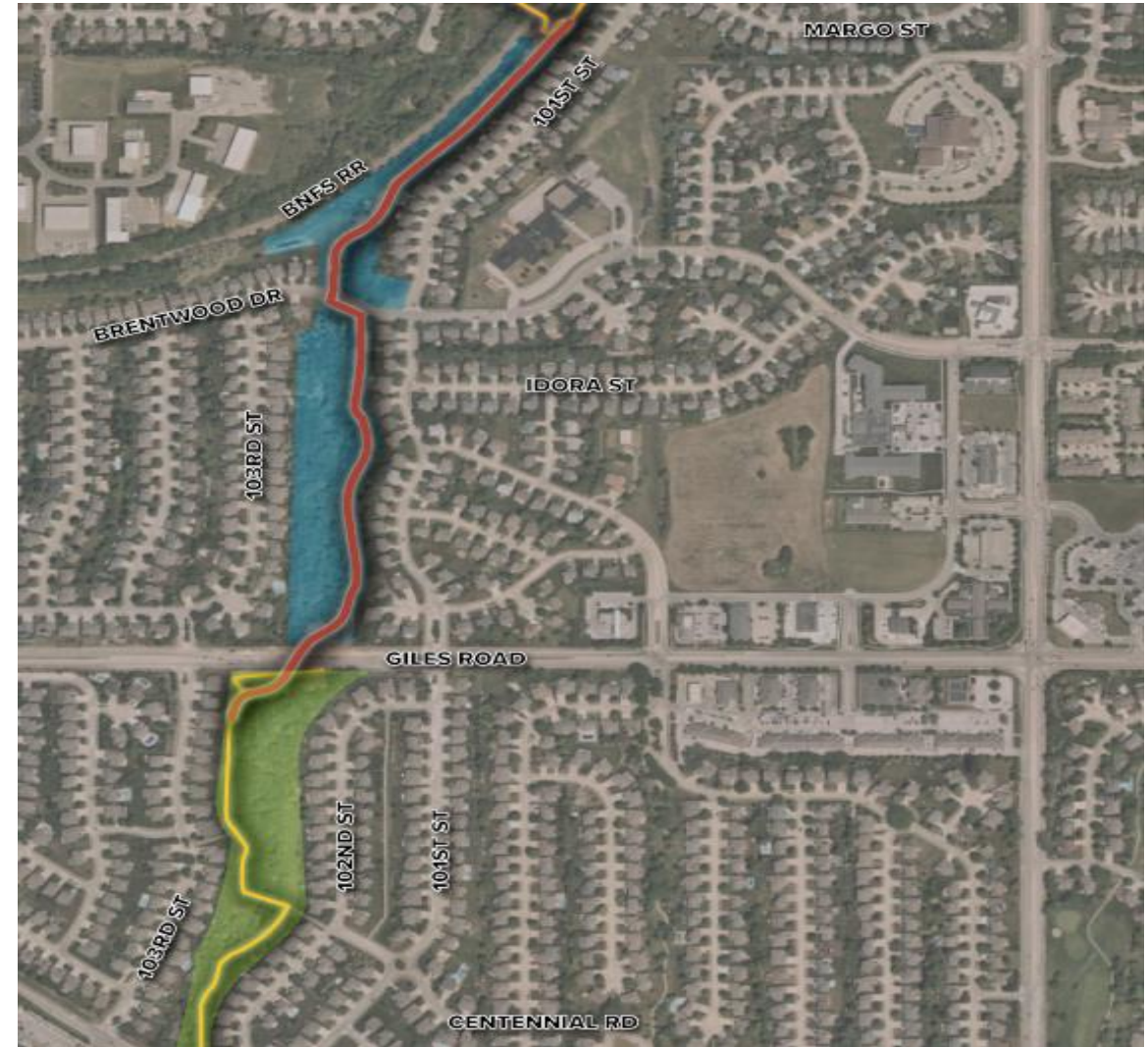
TYR

Obtain Stakeholder Buy-in?



Obtain Stakeholder Buy-in?

- Multiple on-site meetings
- Several Phone Conversations
- Ultimately Buy-in Obtained



National Environmental Policy Act (NEPA)

- Project included federal funding – Transportation Alternatives Program (TAP)
- Contracted through NDOT's Local Projects Division
- Additional steps taken for scope/fee negotiations
- Required NDOT Form 53 (Class of Action) → CatEx
- Environmental/Social Resources to be considered:
 - Section 4(F) Recreational Properties (x3)
 - Section 106 Historic Properties
 - Section 404 Wetlands/Streams
 - Detours/Phasing
 - Public Outreach
 - Schools
 - and more...



What Was Encountered



Wetlands/Stream



*Historic Railroad
Corridor*



Existing Homes



Encroachments





What The Public Said



Construction Impacts

Noise

Erosion

Yard Disturbance

Lighting

Stream Impacts

Head Cutting

Bank Sloughing

Property Impacts

Crime and Safety

Property Values



I am writing in opposition to the proposed Applewood Creek Trail expansion.

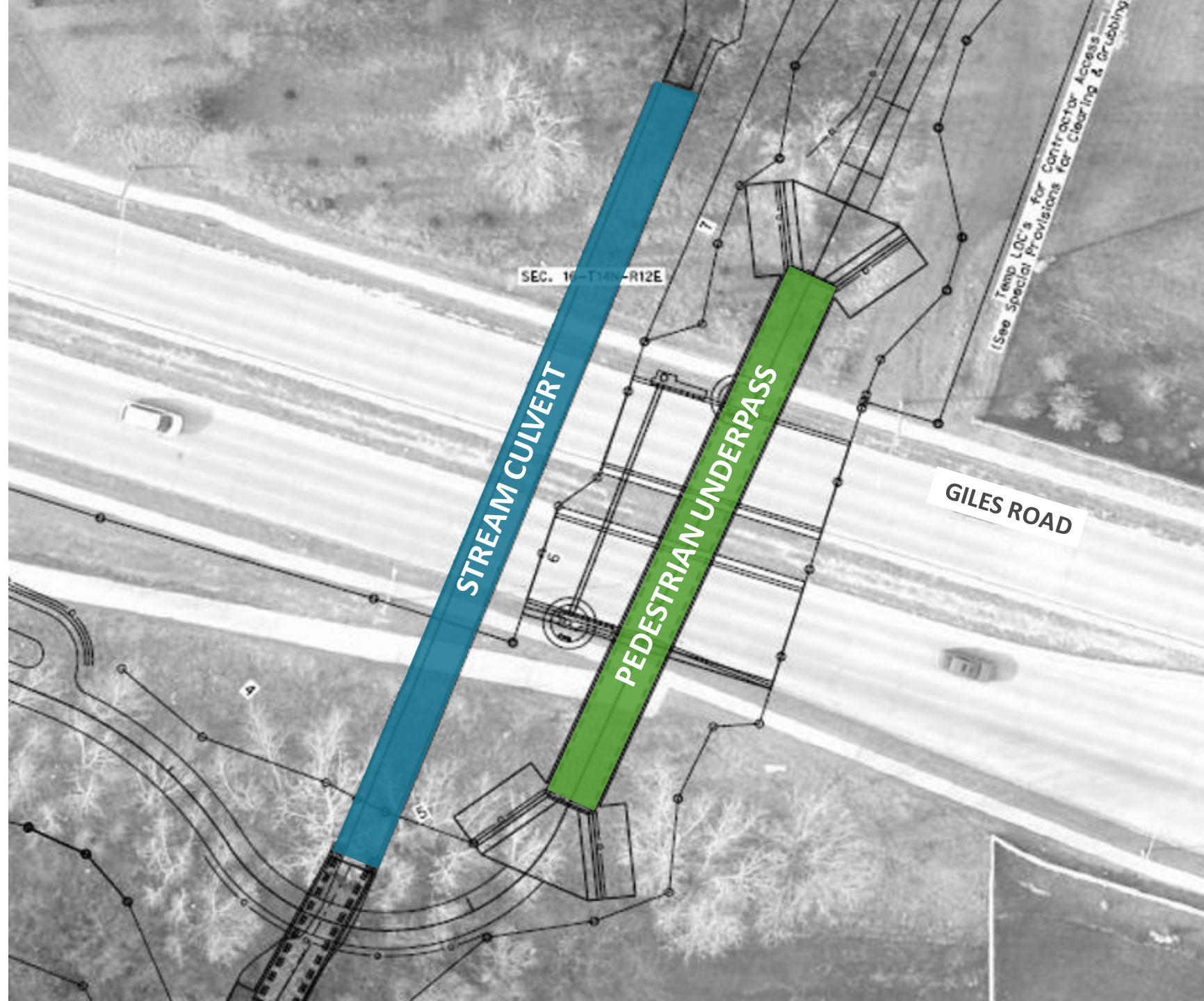
The reasons I am against the expansion are as follows:

- #1. Many mature trees which provide shade, wildlife habitat and increased home values will be removed in the proposed expansion. In particular, properties at the North end of 101st St. are going to suffer a substantial drop in property value and loss of enjoyment.
- #2. Residents along this path have been maintaining the easement ever since the homes were built, close to 20 years ago. I am concerned that the city will not keep the property in good shape.
- #3. I am also concerned that our homes will become burglary targets with the ability for criminals to "case" the homes from the trail with impunity to see who is home, has dogs or security systems etc.

What Got Changed

- Revised Trail Location
 - Moved from east to west
- Stream Culvert
 - Inlet / Outlet

ORIGINAL



What Has to be Done



Project Name: Applewood Creek Trail, La Vista
Project Number: TAP-77(61)
Control Number: 22757

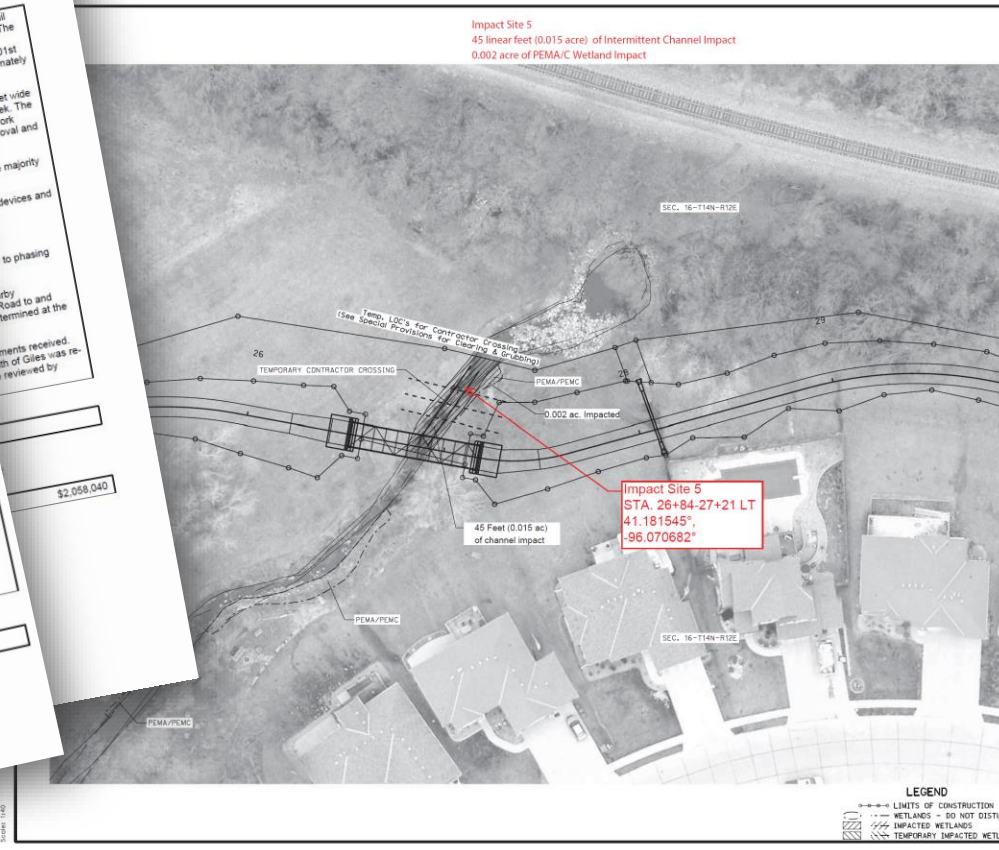
Location and Study Area:
This project is located near 101st Street and Giles Road in La Vista, Sarpy County. More specifically, the project is situated between South 101st and 103rd Streets and extends from just south of Giles Road to an existing trail terminus approximately 530 feet southwest of the intersection of 101st and Margo Streets. The project terminus would be at the terminus of two existing trail segments, which are located near the residences at 8409 South 103rd Street and 7602 South 101st Street. The project location is mostly in an area defined as the Portal Greenway in the City of La Vista (City Parks and Recreation Master Plan (2002)).

Construction may begin and/or end approximately 500 feet ahead of or beyond the actual project limits to accommodate transitioning the pavement.

The Environmental Study Area (ESA) is confined to the length of the project plus 500 feet on either end of the project, plus 100 feet on each side of the project centerline for most resources. Along Giles Road the ESA is extended to 98th and 107th Streets. For wetlands, the ESA generally included the entire Portal Greenway parcel along the project limits. For regulated materials, the ESA extended 0.10 mile from the project centerline, and for Section 4(f) resources, the ESA extended 0.25 mile from the project centerline.

Termini are based on the City's Parks and Recreation Master Plan and the termini of existing trail segments.

Start Point(s): Behind residence at 8409 South 103rd Street
End Point(s): Behind residence at 7602 South 101st Street
Highway Number, Street, etc.: N/A



Section 4(f)
Coordination

Categorical
Exclusion
(NEPA)

Section 404
Permitting

Final Design

- Right-of-way Design
- Railroad Easement
- Encroachment Cleanup
- Continued Utility Coordination



Project Timeline

Project Funded
Design Started
Preliminary Design
Environmental Process
NEPA Approval
Final Design
Right-of-way Acquisition
Project Letting
Construction Complete

July 2018
April 2019
December 2019
July 2019-April 2021
April 2021
July 2021
March 2022
June 2022
July 2023



Construction Photos



Construction Photos



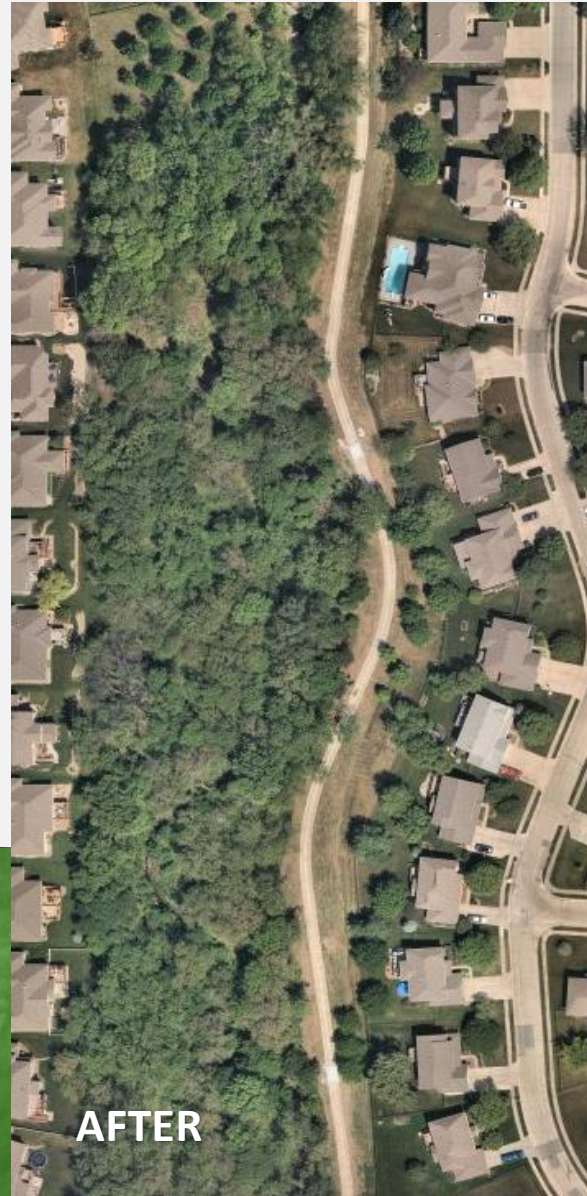
Construction Photos



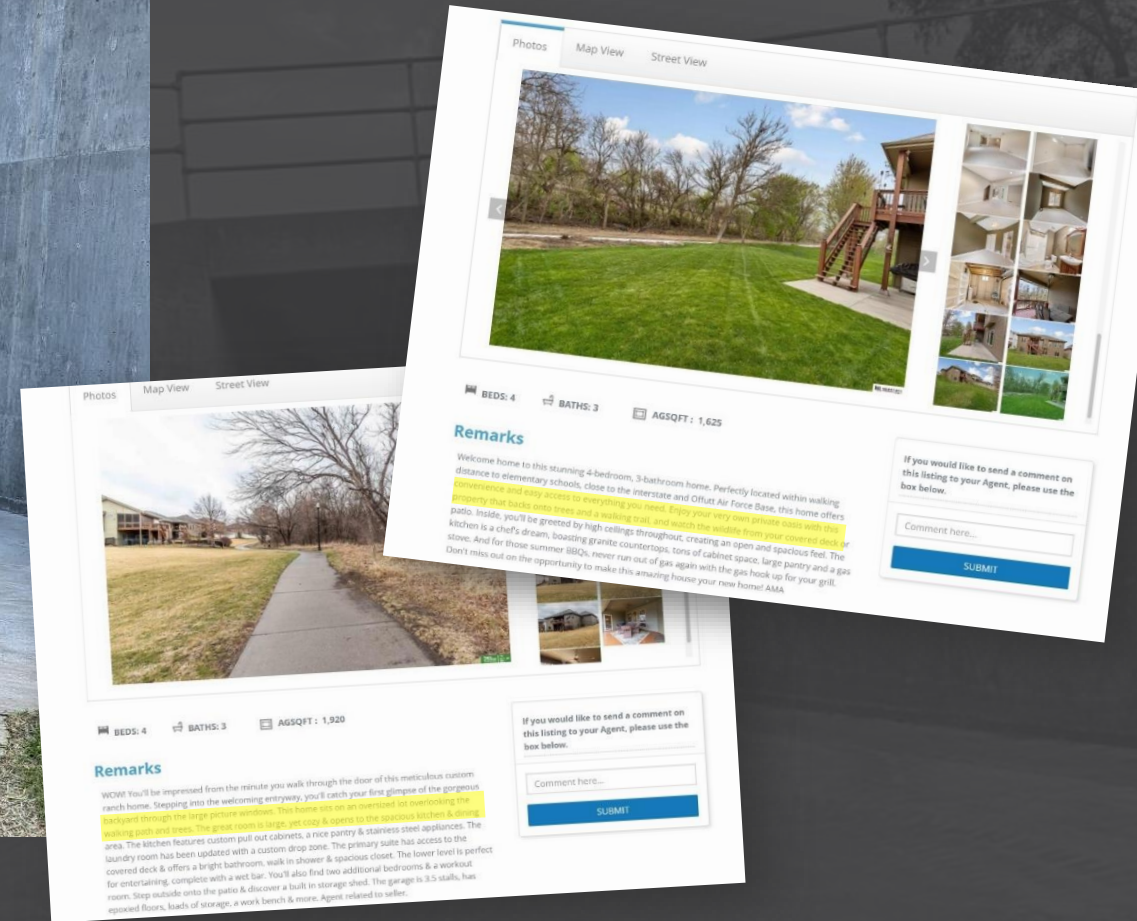
Construction Photos



Completed Project



Happy Trails!





SCH_{EM}MER
Design with Purpose. Build with Confidence.


LA VISTA
NEBRASKA

 **benesch**

Meeting Close

- Split Kitty Drawing
- PDHs available from the Omaha Post Website
 - ▶ <https://www.same.org/omaha/resources/>