

Town of Lyons

Solar Farm Feasibility Project



Presentation Brought to you by:
The University of Colorado at Denver Student Team

April 1st, 2021

AGENDA



Introductions



Presentation



Rules for Virtual Town Hall



Feedback & Public Input

Student Team Members

University of Colorado at Denver
Spring 2021: Senior Design Class

01.

Brittany LeMarc



02.

Mauricio Chavez



03.

Chandler (CJ) Kitson



04.

Kevin Riker



05.

Elvia Martinez



06.

Omima Abdoun



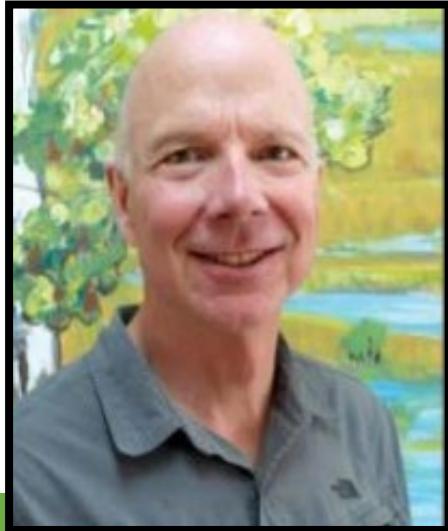
Project Experts

Town of Lyons Volunteers



Lee Hall

Town of Lyons
Volunteer on the
Utility & Engineering Board

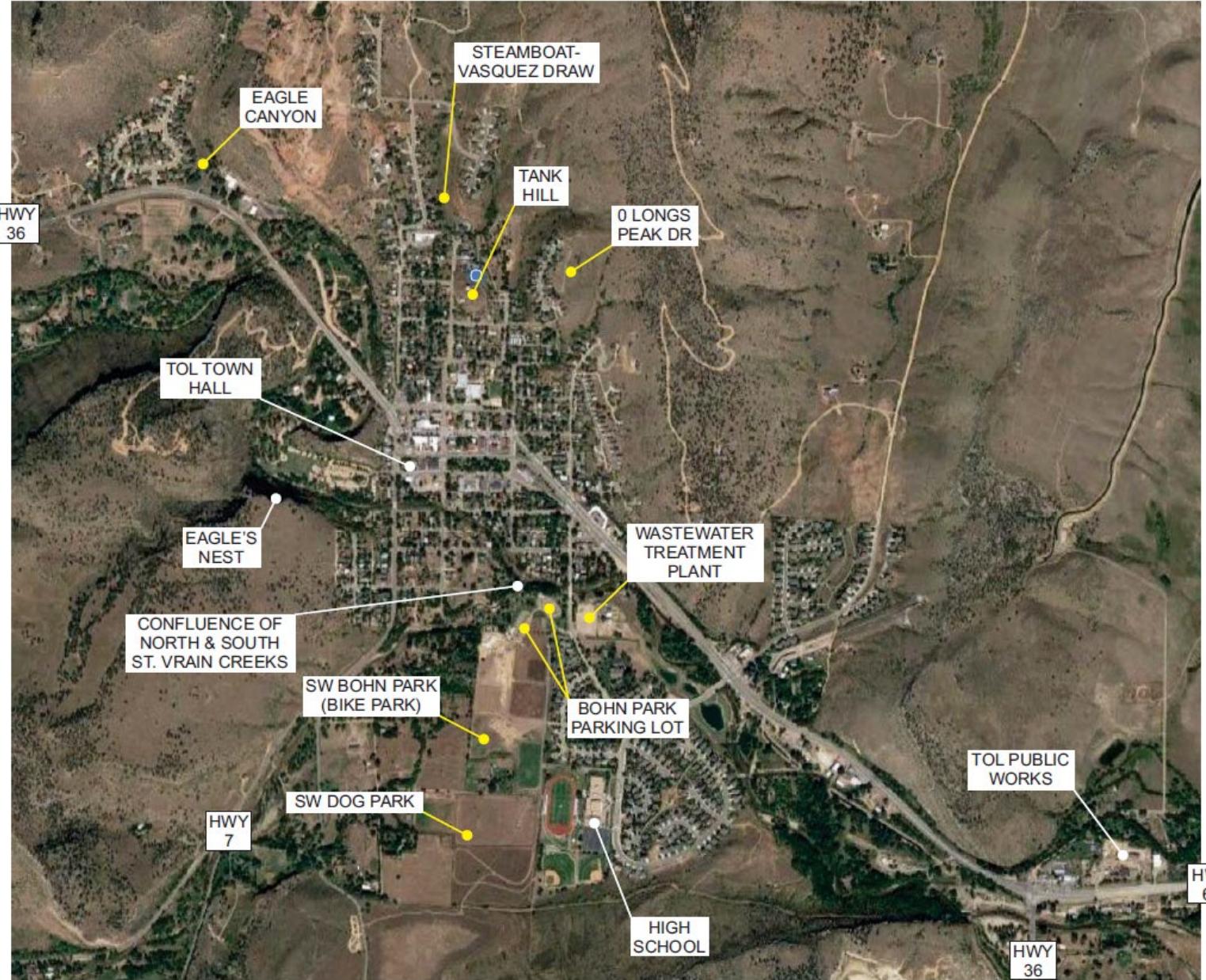


Jim Kerr

Town of Lyons
Chair of Utility & Engineering
Board

Solar Overview





Potential Sites Overview



Eight Total Sites

- Environmental impacts
- Construction cost
- Flood risk
- Solar Studies
- Geotechnical Concerns

Tank Hill Location

0 Reese Street, Lyons, Colorado

Site Considerations

- Added cost of removing the water tank.
- Location and soil properties would increase cost of construction.
- Would accommodate only half of the solar panels necessary to meet energy goal.
- Possible fox den impacts

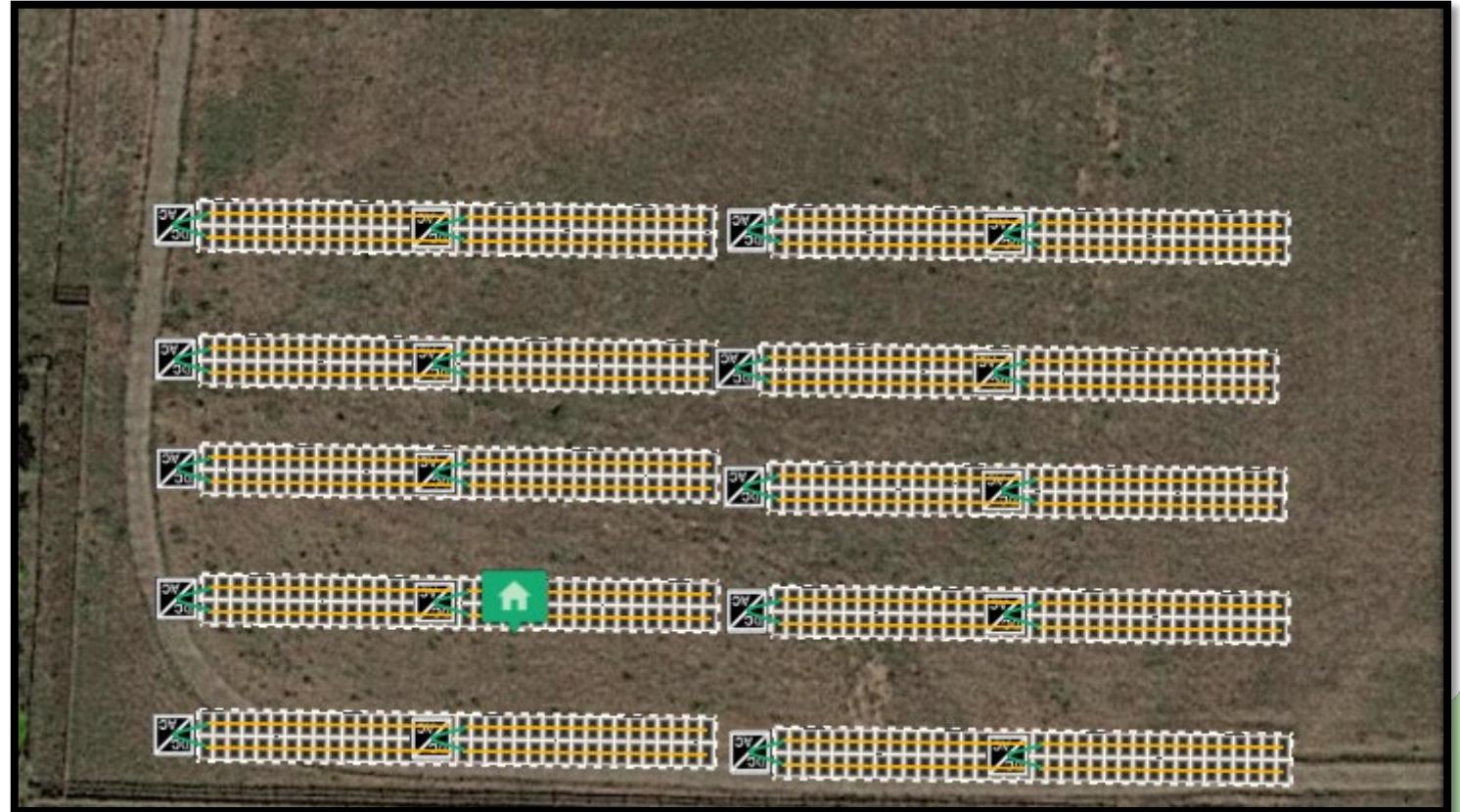


Southwest Dog Park

0 Bradford Street, Lyons, Colorado

Site Considerations

- > 95% solar access
- Outside of the flood plain
- Would only take up a small section of dog park.
- Room for potential future expansion



Bohn Park - Near Bike Area

199 2nd Ave. Lyons, Colorado

Site Considerations

- > 95% solar access
- Currently an unused and secluded parcel of land
- Outside of the high-risk flood region
- Only enough space to fulfill energy demands of 5%



Bohn Park Parking Lot

199 2nd Ave., Lyons, Colorado

Site Considerations

- Would add covered parking to the park
- Could present opportunity to add shade garden park amenity
- Added cost of carport construction
- Lower cost to access phase-3 power



Agrivoltaics



Overview

- Idea of combining agriculture such as farming or gardening with photovoltaic power such as solar panels
- Making dual use of same land
- Construction cost increases



Rules for Feedback & Input

01. Please keep all microphones muted during the town hall.
02. Type all questions, feedback or input into the zoom chat box.
03. Be sure to include your name at the Beginning of each question or comment.
04. We will try our best to address feedback. Each response will be kept to around 2 minutes.
05. All feedback will be logged for record as we continue to work on this project.

Thanks !