

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM

Date: 1/18/23 Weekly Agenda Date: 1/31/23

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Riley Gibson Representing Summit Carbon Solutions

WORDING FOR AGENDA ITEM:

Summit Carbon Solutions Project Update

ACTION REQUIRED:

Approve Ordinance ☐

Approve Resolution ☐

Approve Motion ☐

Public Hearing ☐

Other: Informational ☒

Attachments ☒

EXECUTIVE SUMMARY:

Request for placement on the agenda for Supervisors meeting on 1/31/23. Riley Gibson will provide a 15 minute project update.

BACKGROUND:

FINANCIAL IMPACT:

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes ☐ No ☒

RECOMMENDATION:

ACTION REQUIRED / PROPOSED MOTION:



IOWA

Voluntary Easement Miles Acquired

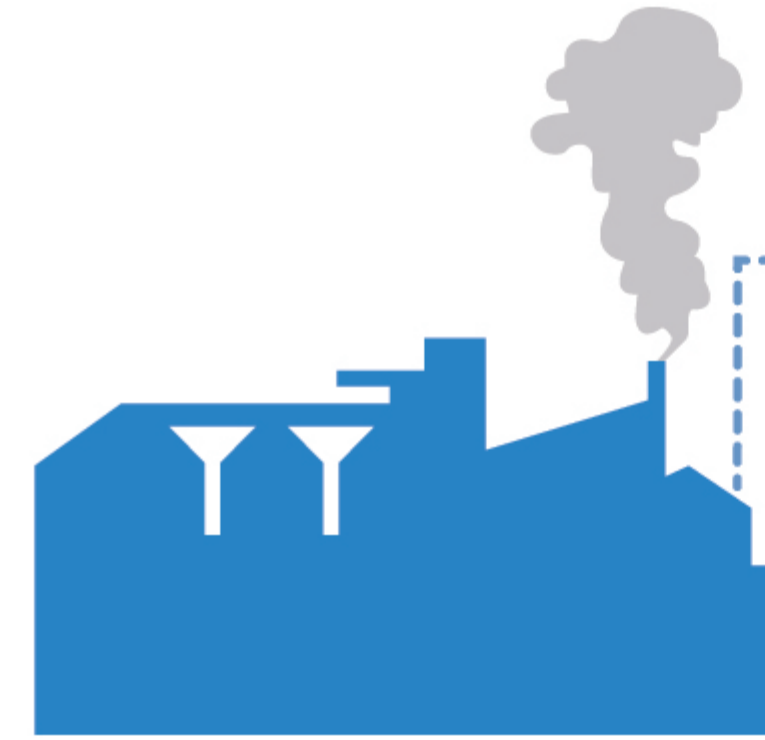
- Over 435 miles now signed
- Over 1,035 landowners have signed, equating more than 1,824 agreements executed

OVER
435
miles

Iowa Utilities Board

- Permit Application Submitted to Iowa Utilities Board January 2022 – Docket Number HLP-2021-0001
- Decision requested June 2023
- Iowa Utilities Board accepting comments at iub.iowa.gov

Construction Anticipated Start Date: **August 2023**

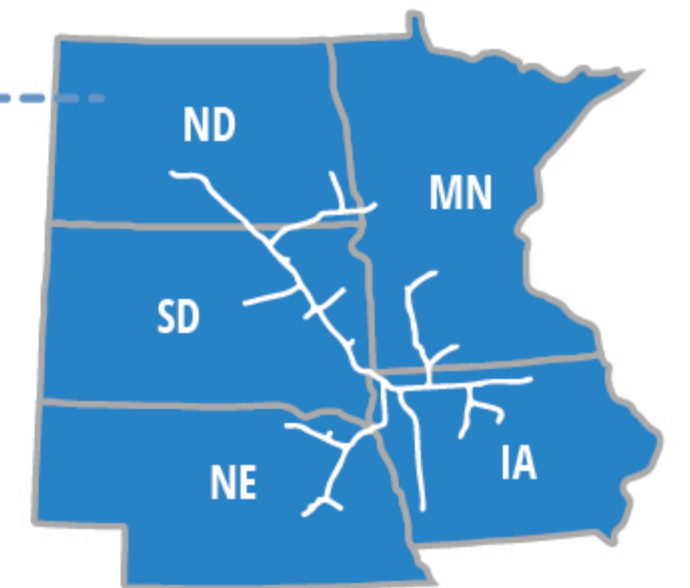


Investors

- Ethanol Plant Partners
- John Deere
- Continental Resources
- Tiger Infrastructure
- TPG Rise Climate
- Summit Agricultural Group

Partners

- 32 ethanol plants across 5 states (Nebraska, Iowa, Minnesota, North Dakota, South Dakota)
- Minnkota Power Cooperative (CO₂ storage) giving Summit Carbon Solution access to the largest of only three permitted CO₂ storage sites in the United States.



- A gas in atmospheric conditions.
- A dense phase deep underground or in a pipeline. A dense phase has the viscosity of a gas but a density closer to that of a liquid.
- Nonexplosive and noncombustible.
- Dispersed as a gas when introduced to conditions outside the pipeline.
- CO₂ pipelines have an excellent safety record exceeding pipelines that carry other materials.
- Transported at ambient temperature that does not affect the surrounding soil.

Pipeline Transport Is Critical to Carbon Capture & Storage

Transporting carbon dioxide by pipeline is the safest method for the large volumes of CO₂ that will be captured and permanently stored. With more than 5,000 miles of infrastructure currently operating in the United States, carbon dioxide pipelines have an excellent safety record.

Carbon capture and storage utilizes longstanding technology that is safe for landowners and communities.

- CO₂ capture is already deployed at more than 40 ethanol plants.
- There are 5,000 miles of existing CO₂ pipelines in the United States regulated by the Department of Transportation (DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA).
- Captured CO₂ is permanently and safely stored deep underground based on EPA standards.

Pipelines Are Highly Regulated

Stringent requirements for the safe design, construction, and operation of CO₂ pipelines have been established by the DOT PHMSA. Additionally, constructing the Summit Carbon Solutions system requires permits from the following entities:

State:

- Iowa Utilities Board
- Iowa Department of Natural Resources (DNR)

Federal:

- United States Army Corps of Engineers
- United States Fish and Wildlife

Summit Carbon Solutions is working with landowners, community leaders, stakeholders, and more with respect, honesty, and transparency to obtain the necessary rights from the landowners for any proposed temporary and permanent easements.

Summit Carbon Solution's Pipeline is Overbuilt for Safety

Summit Carbon Solutions' pipeline will be built beyond federal specifications in these ways:

- PHMSA - 195.248 Pipeline Location - requires 3ft depth below ground level. Summit Carbon Solutions will be at 4ft minimum depth.
- PHMSA - 195.210 Pipeline Location - requires 50ft setback from all dwellings. Summit Carbon Solutions is designing the pipeline that far exceeds the minimum setback.
- PHMSA - 195.250 Clearance Between Pipe and Underground Structures – Any new pipe must be at least 12" away from any other underground pipe or structure. Summit Carbon Solutions' best practice is 24".
- PHMSA 49 CFR Part 195 defines minimum requirements like the spacing between block valves, which is no more than 20 miles apart and in some cases less for Summit Carbon Solutions' pipeline.

Summit Carbon Solutions will employ a computer based, computational leak detection system that continuously monitors the operation of the pipeline from a manned control center. Similar leak detection systems are currently being utilized in the operation of numerous pipelines across the United States. Data will be continuously collected from pressure sensors, flowmeters, and temperature sensors installed along the pipeline and used to identify abnormal operating conditions. In the unlikely event of a leak, the system will provide information necessary to locate the leak, isolate the pipeline segment, and mitigate risk.

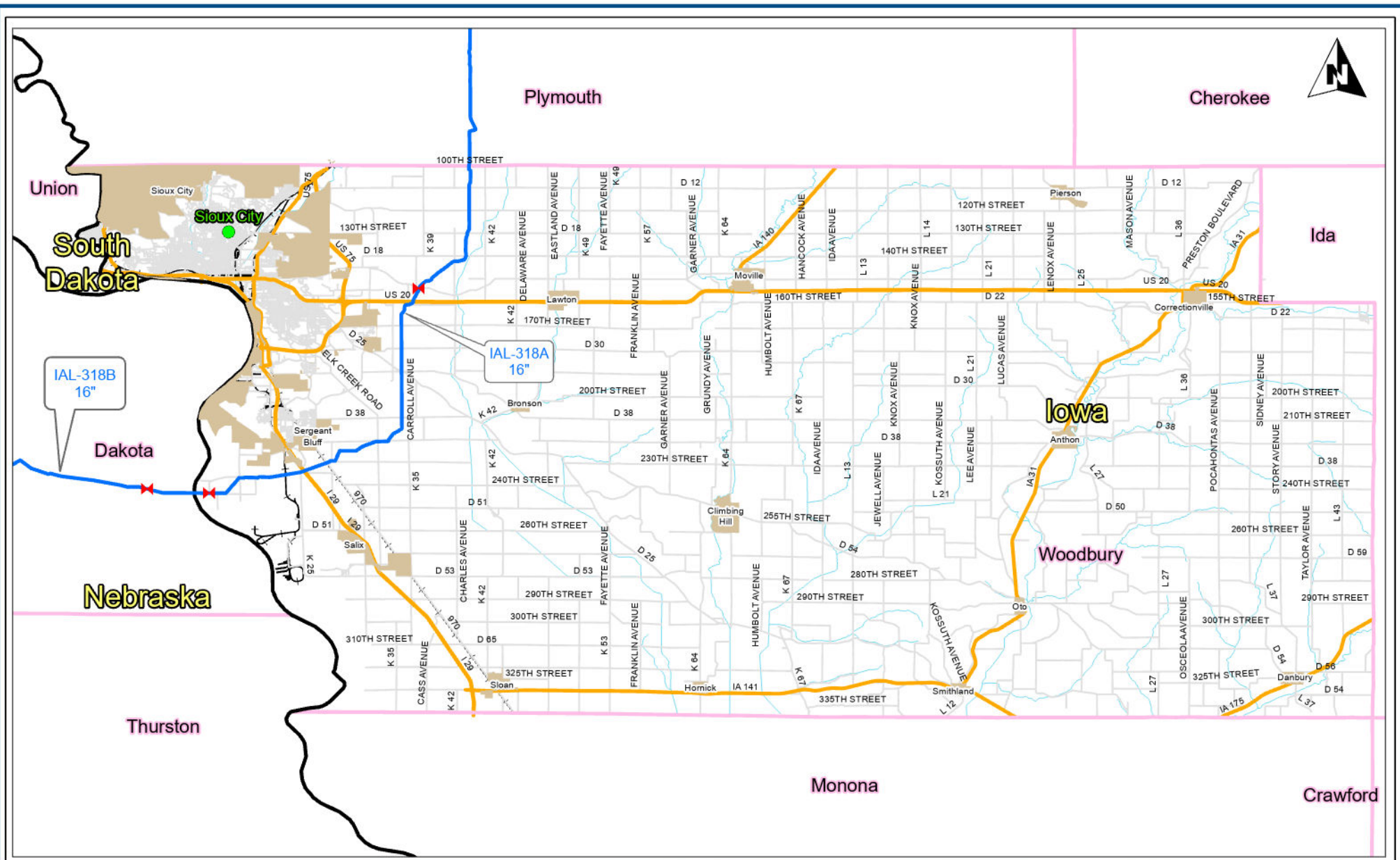
Community Investment

Summit Carbon Solutions is looking to invest and volunteer in local communities. If there is somewhere we can invest in your community, please contact Kaylee Langrell 501-581-3348 or Kaylee.langrell@tkl360.com

Contact Information

For Emergency Management Questions:
ROD DILLON
Director of Regulatory Compliance
rdillon@summitcarbon.com
515-531-2624

For More Project Information or Interviews:
JESSE HARRIS
Director of Public Affairs
jharris@summitcarbon.com
515-240-2104




- Participating Ethanol Plant
- County Seat
- Mainline Valve
- Pump Station
- Highly Populated Areas
- State Boundary
- County Boundary
- Route
- Primary Road
- Secondary Road
- Local Road
- Railroad
- River

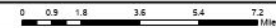
21.06 MILES OF ANTICIPATED PIPELINE
WOODBURY COUNTY IOWA

Pipeline centerline is based on the 01/24/2023 route.

Woodbury County Iowa Pipeline Mileage Overview		
COUNTY: WOODBURY	DRAWN BY: CC	
STATE: IOWA	CHECKED BY:	
REV. NO.: 0	REVISION	DATE
	ISSUED FOR REVIEW	2022-09-29
PRELIMINARY ROUTE SUBJECT TO CHANGE		
DATE: 1/25/2023	PROJECTION: NAD 83	



SUMMIT
CARBON
SOLUTIONS



0 0.9 1.8 3.6 5.4 7.2
Miles

DWG: SHEET: 1