

Heartland Greenway

A Navigator CO₂ Ventures LLC Project

www.heartlandgreenway.com





Project Update

- ~1,300 miles of new liquid CO₂ pipeline
 - 112 miles in SD
 - original 62 miles 8-12",
 - New 50 Miles 6"
- Activities to Date/Schedule
 - Stakeholder Engagement
 - open houses January 2022
 - new ones in August
 - Surveys & Permitting
 - >60% original Line
 - new lines this fall

Pipeline Specifications



- **Design:** steel pipe expressly for liquid CO₂
 - **Federal Regulation:** design, construct, operate to meet or exceed 49 CFR Part 195
 - **Normal Operating Pressure:** 1,300 -2,100 psig (MOP by design: 2,200 psig or ANSI 900)
 - **Pipe Depth:** nominal 5', 18-24" separation from existing lines/utilities
 - **Pipe Diameter:** 6" – 24" outside diameter
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- **Operating Temperature:** Pipeline: 40–80°F
 - **Mainline Valves:** nominal 30' x 70', strategically located
 - **Booster Stations:** 3-4, 10-acre mainline booster stations, location TBD

CO2 Pressure-Enthalpy diagram

