General Engineering Company

How Far Do You Go to Get Gravity Flow?

Presenter - Jerry Foellmi, PE
Code

Project Challenges
- Abbyland Foods
- WI CSA
- Dekorra Utility District
- Greenwood/Loyal

Available Options

Case Study

Contact Information

GEC
Code

- Replacement vs. New
- Pipe Size vs. Slope
- Manhole to Manhole Distance
- Private vs. Public
- Open Cut/Directional Bore
- Stream Crossing

Req. Ch. 30 permit
Project Challenges

- Terrain
- Bedrock
- Groundwater
- Wetlands
- Floodplain
- Streams

Site Conditions/Layout

- Terrain
- Bedrock
- Groundwater
- Wetlands
- Floodplain
- Streams

Project Issues

- Grants/Loans
- Budget
- Owner Directives

Client/DPW Expectations

- Budget
- OMR
- Lift Station?
Available Gravity Options

1 – Increasing Pipe Size
2 – MH to MH Separation
3 – Directional Bore
4 – Lift Station
5 – Stream Crossing

Aerial Crossing
Inverted Syphon
Abbyland Foods - Abbotsford, WI
Abbyland Foods - Abbotsford, WI

- 1700'-10" @ .28%
- Every obstacle
- Owner Directives
Abbyland Foods - Abbotsford, WI
Abbyland Foods - Abbotsford, WI
Case Studies

WI CSA
Case Studies

Crystal, Fish & Mud Lakes Protection District
Dane Co, WI
Case Studies

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Greenwood, WI
Takeaways

- Open mind when considering sewer service for challenging sites
- Tight Pocketbook
- Reducing Costs vs Long-Term OMR
Contact Information

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