TOWN OF KENDALL & HAMLIN JOINT SEWER DISTRICT

LaBella
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The Town of Kendall
"A great place to grow!"

Building community values
SINCE 1812

PROJECT TEAM

LaBella Associates

Michael Simon

Jason R. Ebbs, PE

AGENDA

- Project Overview and Summary
- Background
- Project Goals
- Project Area
- Alternatives Options
- Recommendation
- Costs
- Next Steps

PROJECT SUMMARY
(BOTTOM LINE UP FRONT)

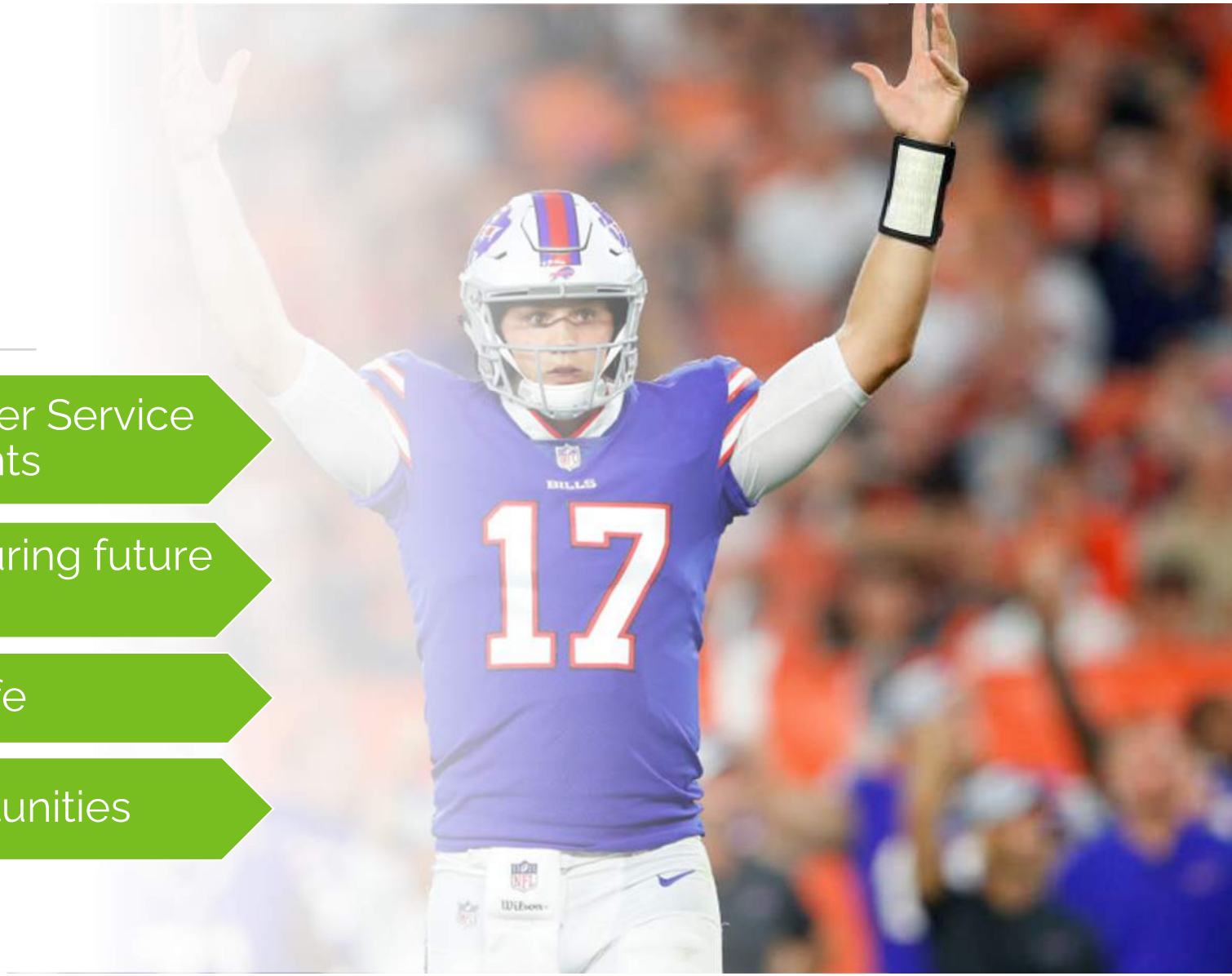
- Joint Town of Kendall & Hamlin Sewer District
- Low Pressure Sanitary Sewer System
- Connection to Monroe County Pure Water Sewer.
- Grinder pump at each residence (+/- 300)
- Total Project Cost is: $15.65 Mil
- REDI Grant: **$8.60 Mil**
- Seek IMG Grant: **$2.82 Mil**
- Cost per EDU / Single Family Residence: **$621/yr.**

BACKGROUND

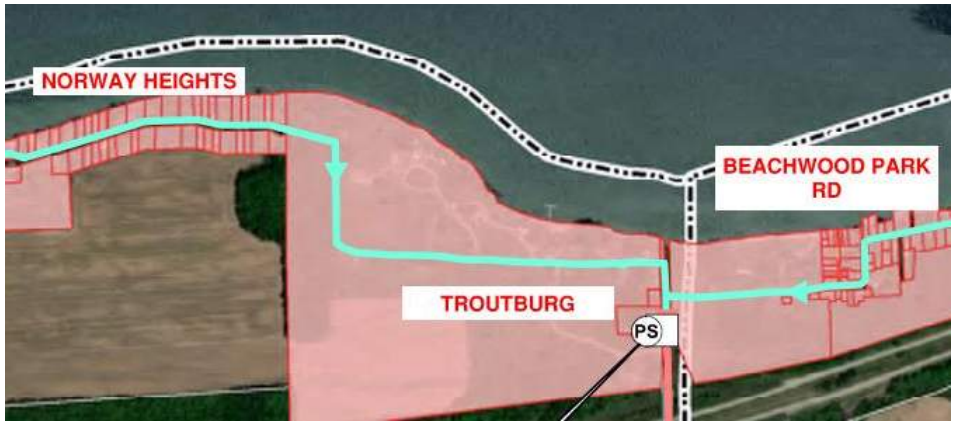
- Historic Rainfall Events in 2017 & 2019
- Flooded & Eroded Septic Systems
- Contamination of Drinking Water Source
- In 2019 REDI announces $8.60 Mil grant
- Town Commissions LaBella to Prepare Preliminary Engineering Report

PROJECT GOALS

- Provide Sanitary Sewer Service to Lakeshore Residents
- Provide protection during future high-water events
- Improve Quality of Life
- Create Future Opportunities



PROJECT AREA



PROJECT AREA

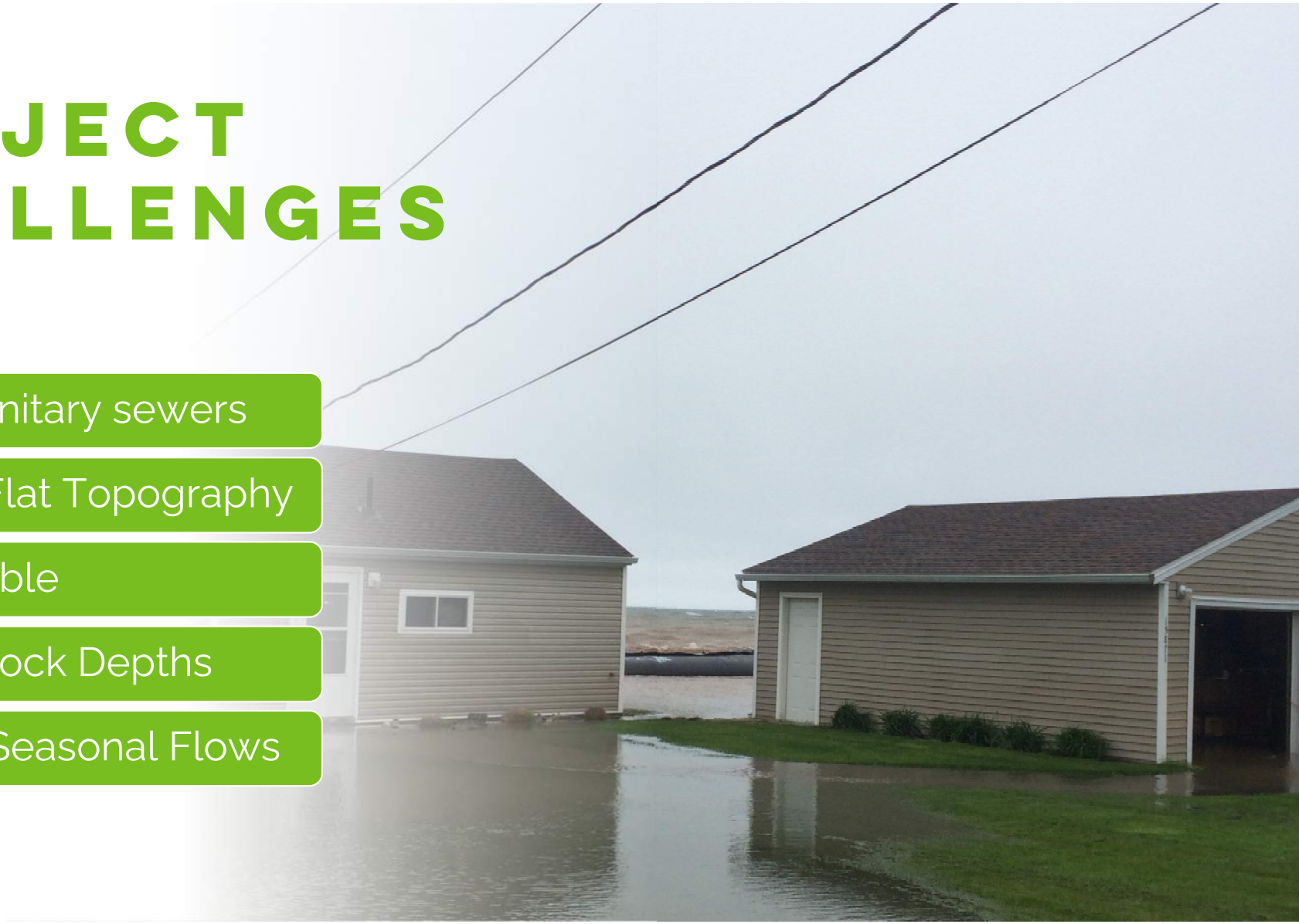
THOMPSON DRIVE	ED ROSE SHORE	LOMOND SHORE	BANNER BEACH ROAD
LAKELAND BEACH ROAD	BALD EAGLE DRIVE	NORWAY ROAD	NORWAY HEIGHTS
COTTAGES AT TROUTBURG	BEACHWOOD PARK (HAMLIN)	HAMLIN BEACH STATE PARK	KNAPP SHORE

PROJECT AREA DETAILS

Classification / Use	Parcels
Residential	300
Commercial - Residential (Troutburg)	1
Commercial - Residential (Hamlin Camp)	1
Commercial - Multi Use (Bald Eagle Marina)	1
Hamlin Beach State Park	1
Residential vacant land	81

PROJECT CHALLENGES

- No nearby sanitary sewers
- Small lots & Flat Topography
- High water table
- Shallow Bedrock Depths
- Variations in Seasonal Flows



ALTERNATIVE SOLUTIONS

01

Sewer Connections to Existing Treatment Plants at Troutburg & Hamlin Beach

02

Connection to Existing Troutburg Treatment Plant & **New** Town of Kendall Treatment Plant

03

Sewer Connection to Existing MCPW Sewer & NWQ Treatment Plant

04

Do Nothing

SELECTION CRITERIA

- Solve the Problem!
- Economical Capital Costs
- Economical Maintenance Costs
- Minimizes Liabilities

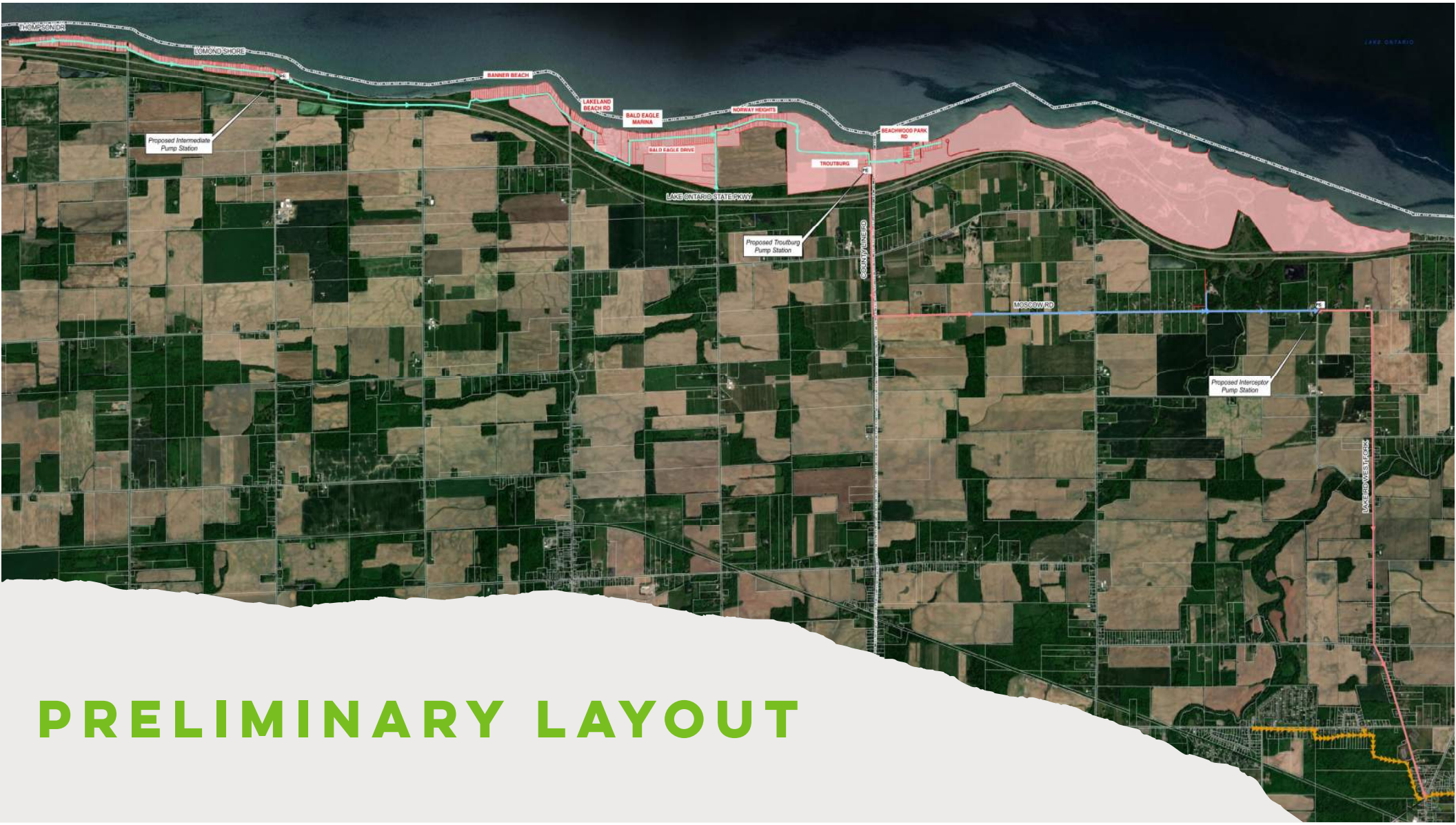
SELECTION:

ALT 3 –LOW PRESSURE SEWER CONNECTION TO MCPW INTERCEPTOR

- Economical Capital Cost
- Lowest Long Term Maintenance Costs
- No SPDES Permits
- Creates Future Opportunities
- Improves Quality of Life
- Increases Usable Area of Residential lots

ALT 3: LOW PRESSURE SEWER CONNECTION TO MCPW SEWER IN HAMLIN

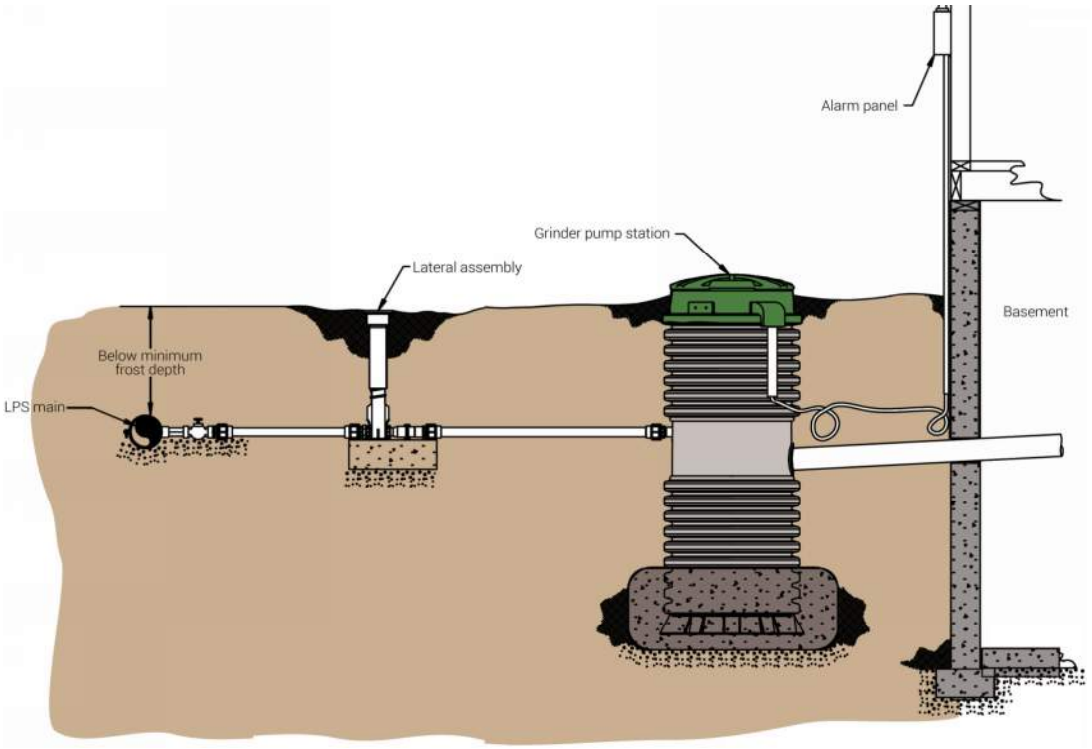
- Grinder Pump installation at each residence (300)
- 15 miles of gravity & force main
- Connection to MCPW interceptor
- 3 Pump Stations



PRELIMINARY LAYOUT

GRINDER PUMP & LOW-PRESSURE SEWER

- Grinder Pump 10 to 20' from house
- Alarm Panel Mounted to post or exterior wall
- Flexible Force main Alignment
- Trenchless Installation (less restoration costs)
- Less Pump Stations
- Requires Abandonment of Septic System



GRINDER PUMPS

- Small manhole at surface
- 3’ feet Dia – 7.5’ Deep
- Grinder Chops Sewage & Passes Small Objects
- Electric $3/month
- No odors
- Quieter than a typical refrigerator
- No periodic maintenance
- Emergency Storage Capacity & Backup Generator Connection

TRADITIONAL SANITARY SEWERS

- 4’ manholes every 300 feet (264 manholes!)
- Sewers and laterals must have straight alignment
- Several Lift stations
- Deep sewers, Bedrock, Groundwater
- Slow “Open Trench” Installation

PROJECT COSTS

TOTAL PROJECT COSTS	$15.65 MILLION
REDI GRANT	$8.60 MILLION
IMG GRANT	$2.82 MILLION
REMAINING PROJECT COST	**$4.23 MILLION***

* Financed Through Low Interest, 30-yr NYS State Revolving Fund Loan

ANNUAL COSTS (PER EDU)

DEBT SERVICE	$408*
Operation & Maintenance	$104
Annual Disposal Costs	$108
Total Annual Costs	**$621**

* Town is exploring additional funding options to lower costs

WHAT'S INCLUDED?

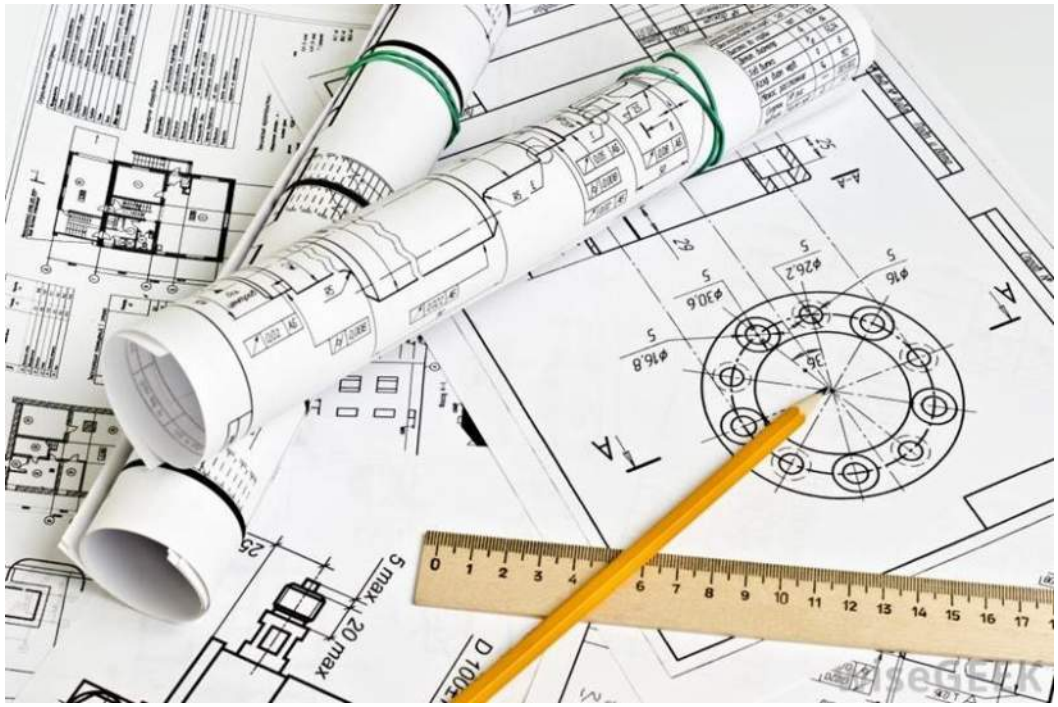
- Sewer Main & Pump Station Installation
- Grinder Pump & Lateral Installation
- Connection of house sewer to grinder pump
- Abandonment of Septic Systems
- Grinder Pump Maintenance & Repair
- Initial Connection Fees
- Operation & Maintenance of Sewer System

HOMEOWNER RESPONSIBILITIES

- Sign Permanent Easement
- Electric to Pump Control Panel
- Locate Existing Septic System
- Annual Electric Costs
- Annual Debt Service

NEXT STEPS

- Sewer District Formation
- Survey & Engineering
- Financing
- Approvals & Permits
- Easements
- Construction



QUESTIONS

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SEWER DISTRICT FORMATION

- TOWN BOARD WILL PASS RESOLUTION FORMING THE DISTRICT
- RESOLUTION SUBJECT TO A 30 DAY PERMISSIVE REFERENDUM
- IF 5% OF ELIGIBLE VOTERS PETITION THE DISTRICT, THE PROJECT GOES TO A VOTE
- IF <5% OF ELIGIBLE VOTERS PETITION, THE PROJECT MOVES FORWARD WITHOUT A VOTE.

ALT 1: CONNECTION TO TROUTBURG & HAMLIN PACKAGE TREATMENT PLANTS

- Lower Initial Capital Cost / Higher long-term Maintenance & Operation Costs
- Certified Treatment Plant Operators
- Short Equipment Facility Shelf Life
    - (Possible Replacement in 25 Years)
    - High Replacement costs
- Maintain Multiple SPDES Permits
- Continual NYSDEC Oversite

ALT 2: NEW TOWN OF KENDALL TREATMENT PLANT

- High Capital Cost & long-term Maintenance & Operation Costs
- Land Acquisition
- Odor / Nuisance
- Certified Treatment Plant Operators
- Short Equipment Facility Shelf Life
- Maintain SPDES Permits
- Continual NYSDEC Oversite

ALT 4:
DO NOTHING

- Lowest Initial Capital Costs
- On-going Maintenance Issues & Flooded Septic Tanks
- Lost Opportunity ($8.6 Million)
- Contamination of drinking water source