



# New Hoosick Falls Water Supply – Overview and Current Status

OCTOBER 2023



**Honeywell**



# Agenda

## **New Water Supply for Village of Hoosick Falls – Operable Unit 02**

- Summary of Record of Decision (ROD) Requirements;
- Overview of Saint-Gobain and Honeywell (Companies) Agreements with NYSDEC and Village;
- Design and Construction; and
- Schedule





# ROD REQUIREMENTS

- Development of two new groundwater supply wells: convert two wells (recently installed) south of Hoosick Falls to production wells (primary wells)
- Provide redundancy by maintaining a minimum of one existing Village well as backup in case of an outage of primary supply wells
- Construct water transmission line from new wells to Hoosick Falls water treatment plant
  - Note: this is a raw/untreated water transmission line between wells and water treatment plant, no direct hookups are allowed to tap untreated water
- Continued maintenance and operation of public water treatment plant for removal of naturally occurring elements, disinfection and distribution
- Retain existing granular activated carbon treatment system



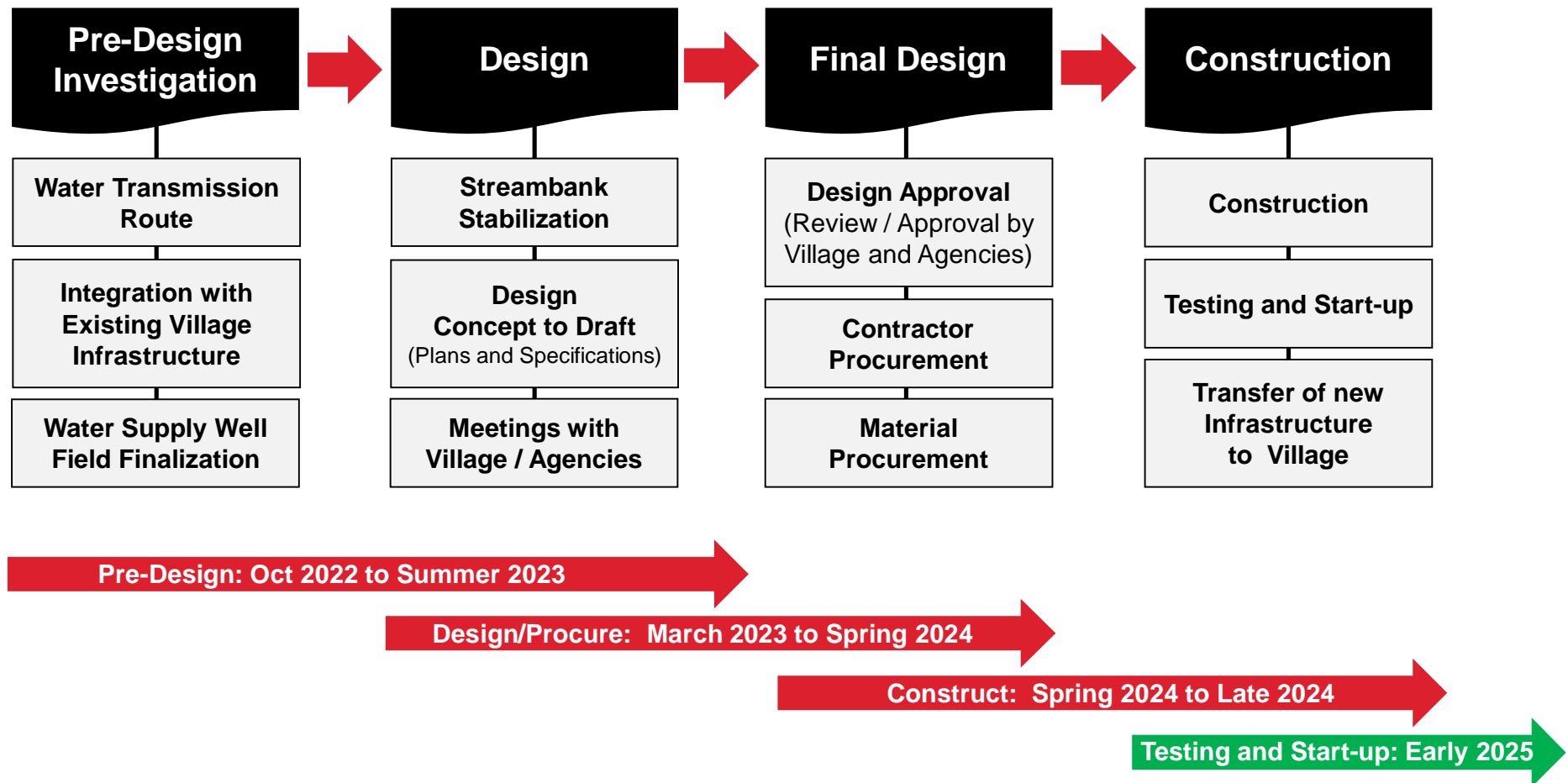
# NYSDEC AGREEMENT

- Agreement amends 2016 Consent Order with Saint-Gobain and Honeywell
- Companies agreed to :
  - Implement new Municipal Water Supply; OU2 Record of Decision
  - Reimburse New York State for portion of future costs to operate and maintain Point of Entry Treatment (POET) systems installed by DEC
  - Pay \$30 million to New York State to reimburse certain costs incurred by the state prior to 12/31/2022
  - Pay \$5 million to resolve potential Natural Resource Damages; DEC to consult town and village before selecting project(s)

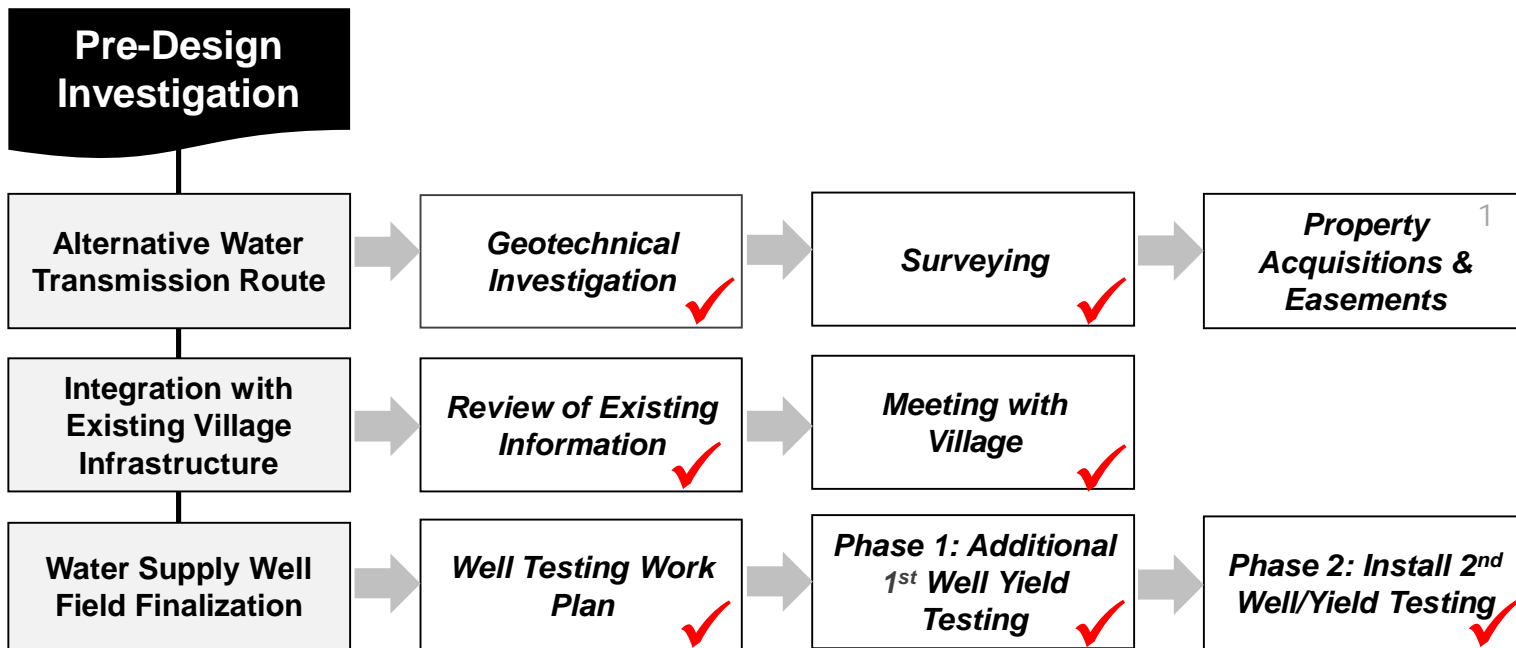
# VILLAGE AGREEMENT

- Companies agreed to design and construct new Hoosick Falls Municipal Water Supply wells and connecting infrastructure; i.e., implement OU2 ROD
- Describes Village's participation and cooperation during design and implementation of new Municipal Water Supply
- Creates an Escrow Account funded by Companies (initial amount of \$80,000) to cover Village's costs associated with reviewing design and construction of new Municipal Water Supply
- Defines process to evaluate long-term O&M costs associated with existing GAC system and new infrastructure
- New Well Field will be owned by Village

# Design and Construction Process



# Pre-Design Investigation



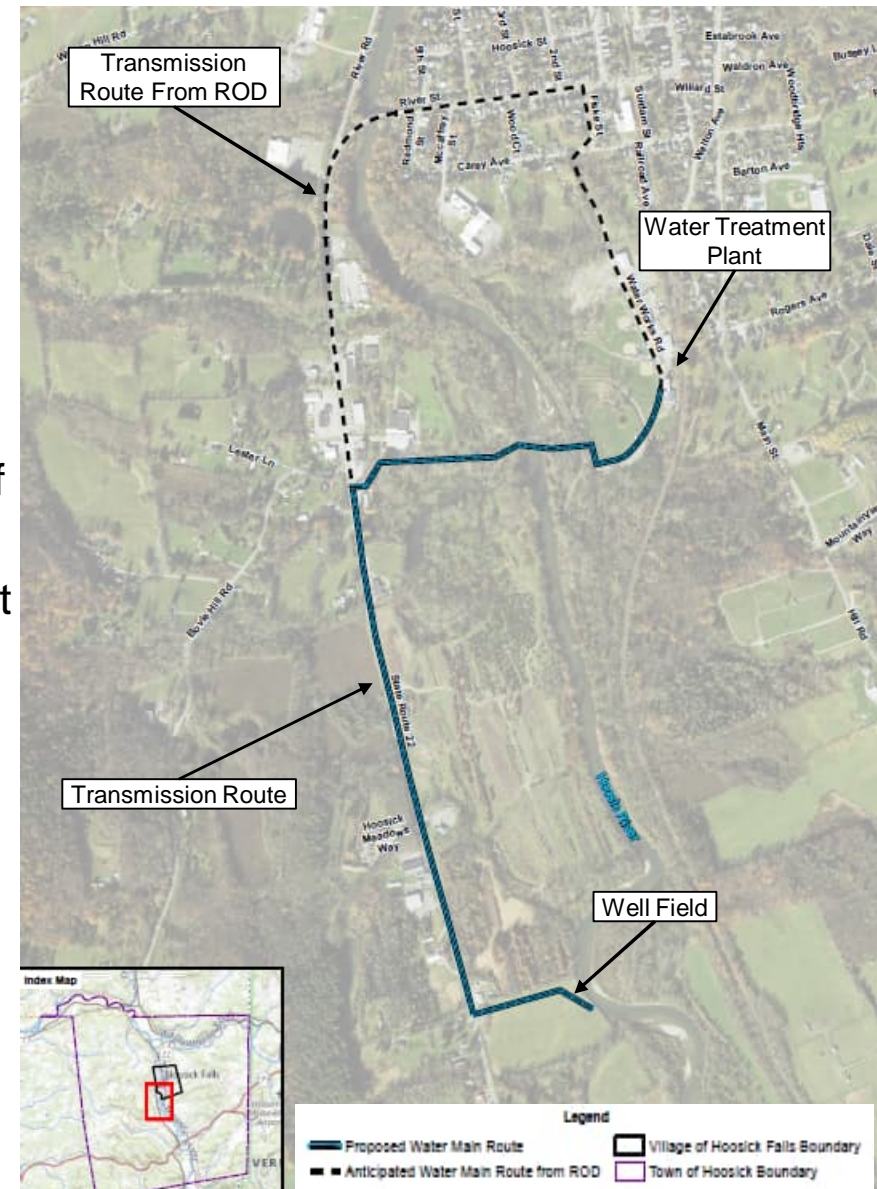
- <sup>1</sup> Agreements in principle have been reached with the property owners for the wells and pipelines. Written agreements are in various stages of progress.

✓ task completed



# Water Transmission Route

- Proposed alternative route for water transmission line described in OU2 ROD
- Benefits of the new route:
  - Avoids using Rt. 22 Bridge to cross Hoosic River
  - Avoids disruption associated with the installation of water transmission line through Village streets
  - Shorter, more direct route to Water Treatment Plant
  - Utilizes public right-of-way and easements across private properties
- Field studies confirmed the viability of proposed route – geotechnical borings, archaeological surveying, and wetland delineation





# Integration of New Water Supply with Existing Village Infrastructure

- Meetings held with Village (Water Department, Department of Public Works, and Village's Consultant)
- Reviewed as-built drawings of existing treatment system
- Evaluated connection of new water supply transmission line to existing system
- Proposed selection of pumps, generators, security measures, well-head completion details and system controls
- Project does not include creation of new water district



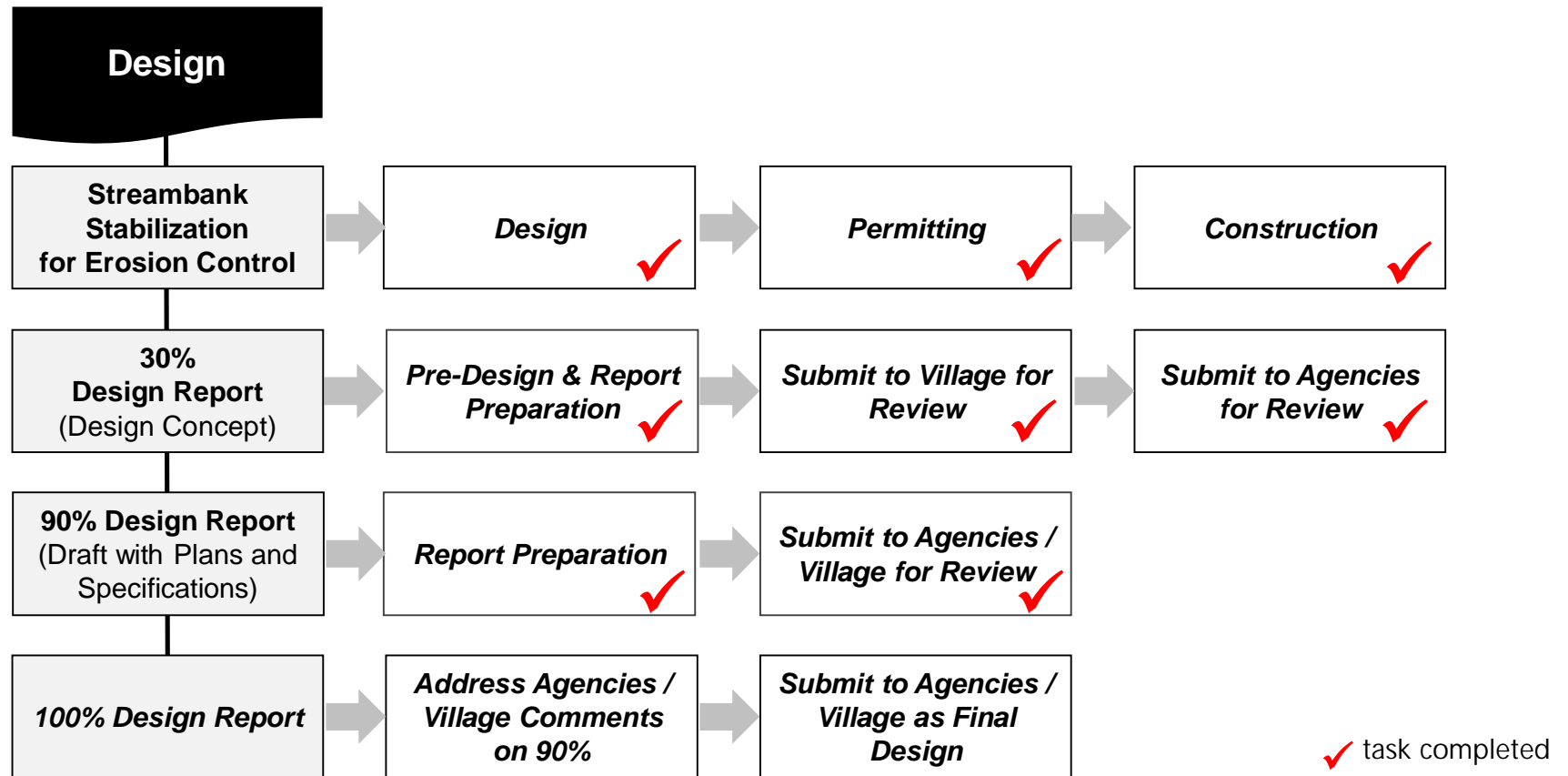
# Water Supply Well Field Evaluation

- Prior DEC-approved work determined that LaCroix/Wysocki properties were the best option
- Verifying the two wells within the proposed well field can each sustain the demand required by ROD (785 gallons per minute [gpm])
  - New well added at LaCroix well field
  - Pump testing confirmed both wells at LaCroix well field sustained production of 800 gpm (more than OU2 ROD required)

*The final configuration of new water supply will consist of this new well field south of Village (two new primary production wells) and Village Well #7 (backup)*



# Design





# Streambank Stabilization

- Historical aerial photos of Hoosic River indicate potential for river to meander from east to west
- ROD includes mitigation measures to prevent erosion of riverbank to protect new supply wells and infrastructure
- Meetings held with NYSDEC regarding design
- Final design considered geometry of river cross section, characteristics of riverbank, water flow and use of combination of hard and soft armoring
- Accelerated work completed under NYSDEC- and USACE-approved permit. In-water work completed prior to start of trout spawning season (September 30).



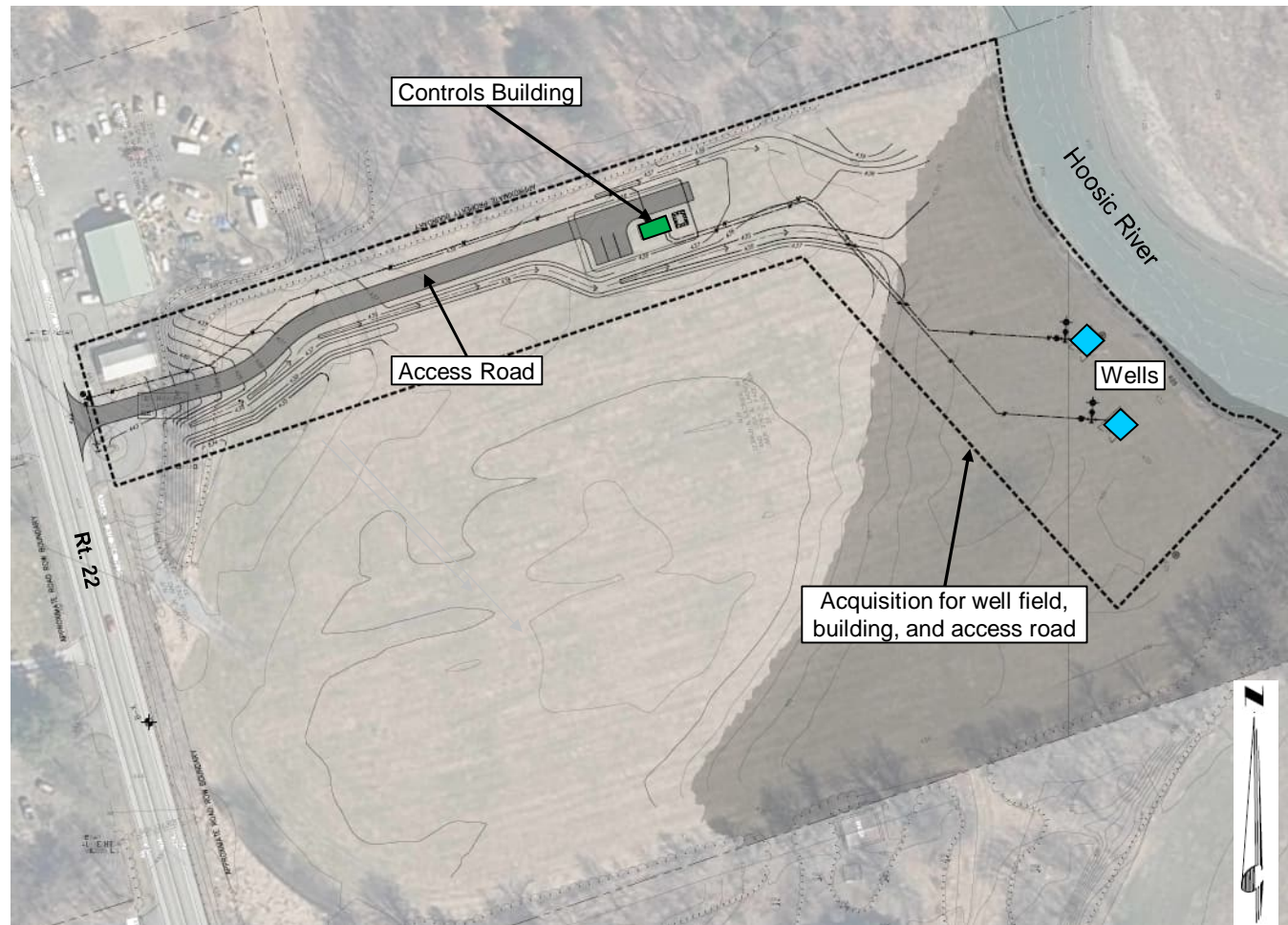
## Streambank Stabilization (October 10, 2023)





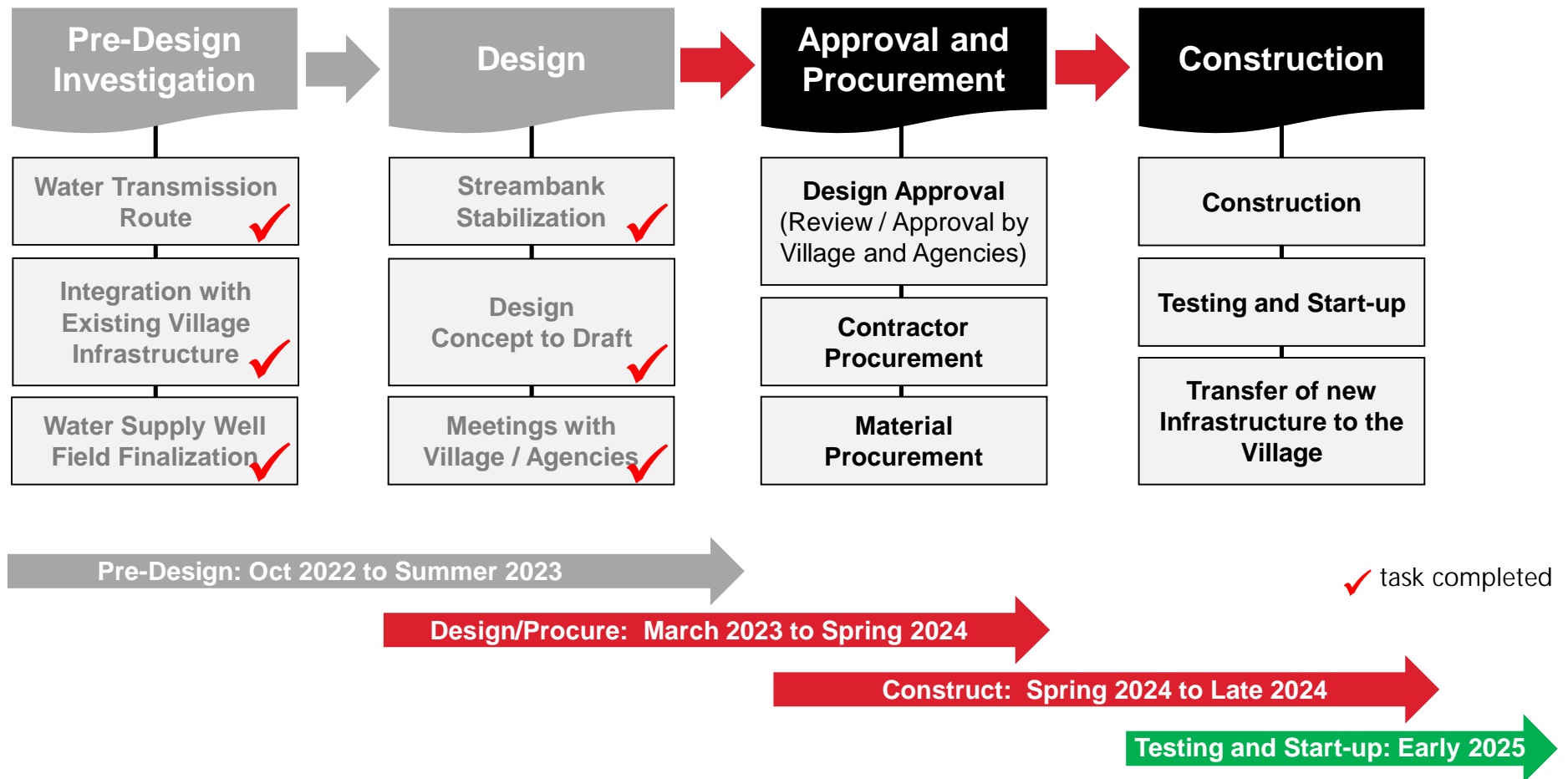
# Water Supply and Transmission Line Design

- Well Field – includes two wells with well head protection, controls building with emergency generator and access road
- Raw Water Transmission Line – public right-of-way, easements across private properties, horizontal drilling beneath Hoosic River, connection at Water Treatment Plant (not shown)
- Supported by various field studies – geotechnical borings, archaeological surveying and wetlands delineation





# Progress and Schedule



# Next Steps

- Design Approval / Contractor and Material Procurement – 2023 into early 2024
- Construction – Spring 2024 through late Fall 2024
  - Most construction efforts will occur at new well field
  - Construction on Rt. 22 includes installation of 3,700 feet (0.7 miles) of water transmission line in public right-of-way of northbound lane; approximate construction time of 3 to 4 months
- Testing and Start-up – Early 2025
  - Honeywell and Saint-Gobain will be responsible for testing new system and start-up. Once systems are fully tested and start-up complete, operation and maintenance will be transferred to Village
- Monitoring
  - Groundwater monitoring will be performed to identify and track potential movement and migration of PFAS toward new well field
  - Monitoring locations discussed with Village and draft groundwater monitoring plan is being reviewed by NYSDEC

