



New Hoosick Falls Water Supply – Overview and Current Status

JUNE 2023



Honeywell

Agenda

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

- Summary of Record of Decision (ROD) Requirements
- Design and Construction
- Schedule



Overview

ROD Requirements

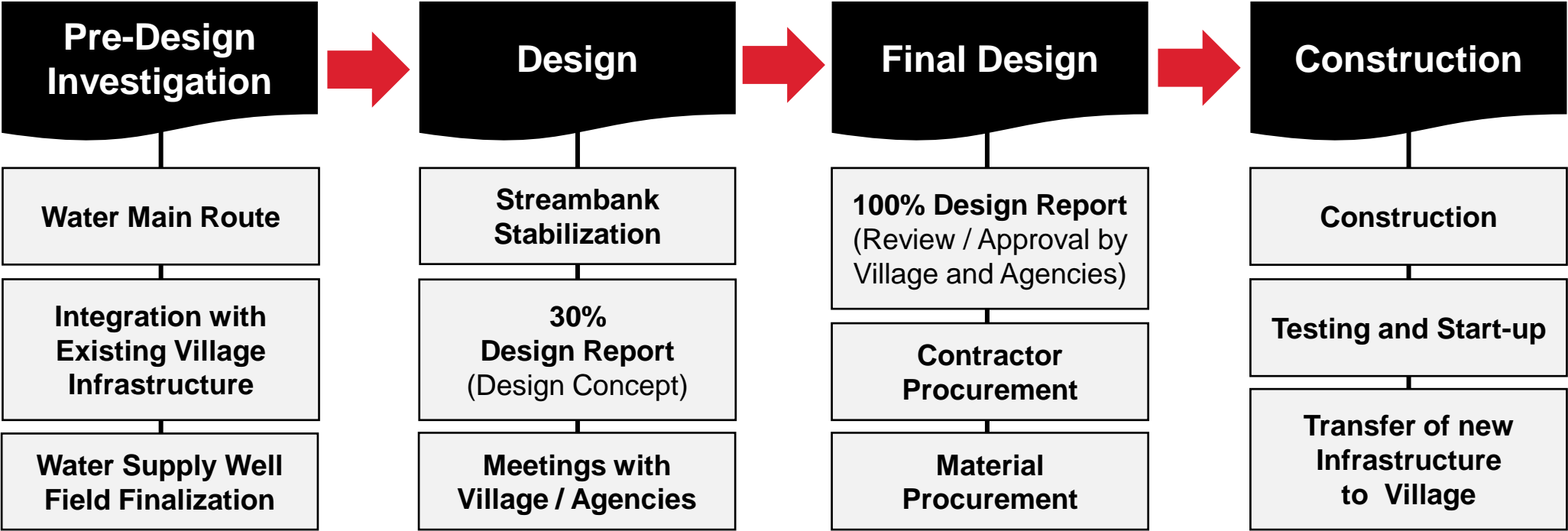
- Development of new groundwater supply well field located south of Hoosick Falls
- Construction of water transmission line from new wells to existing water supply treatment plant
- Continued maintenance and operation of existing water supply treatment plant, including carbon filtration system

Companies entered into Agreement with NYSDEC (May 2023)

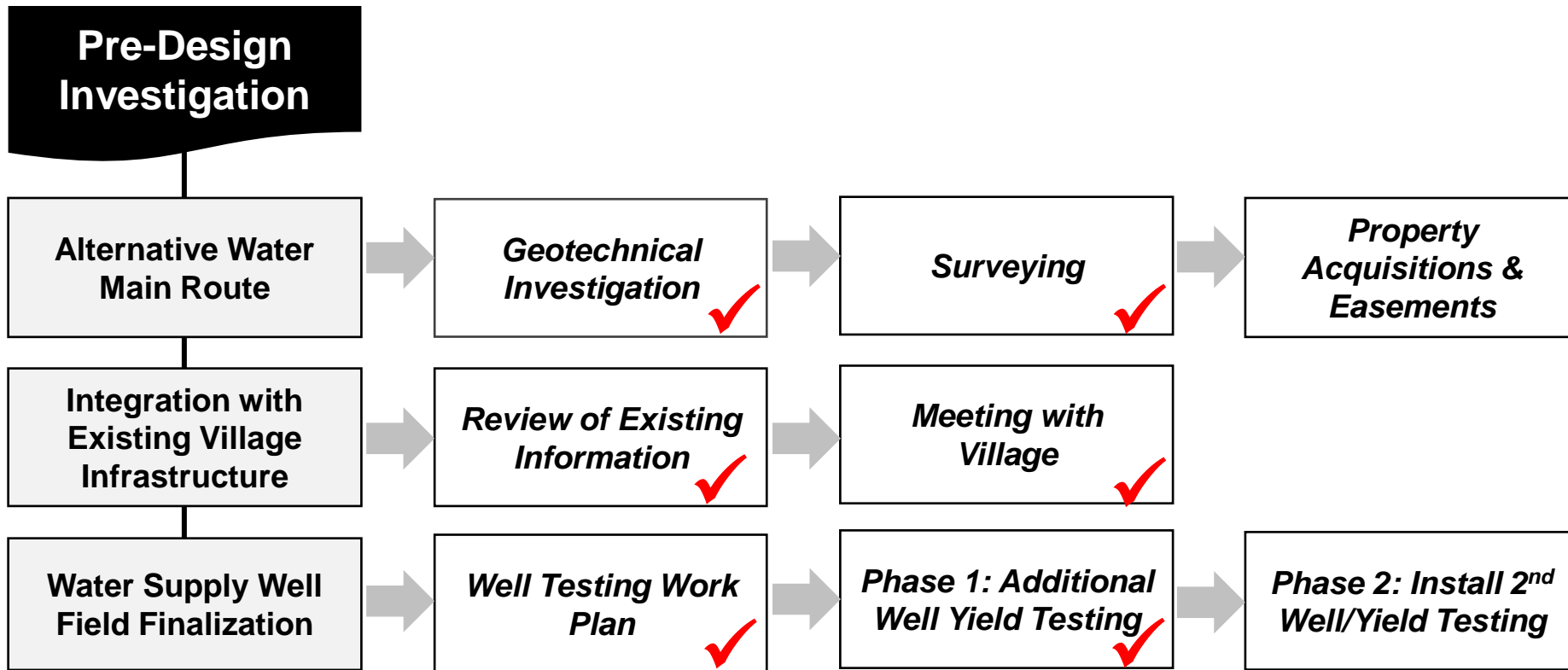
Companies signed Agreement with Village for reimbursement of expenses



Design and Construction Process

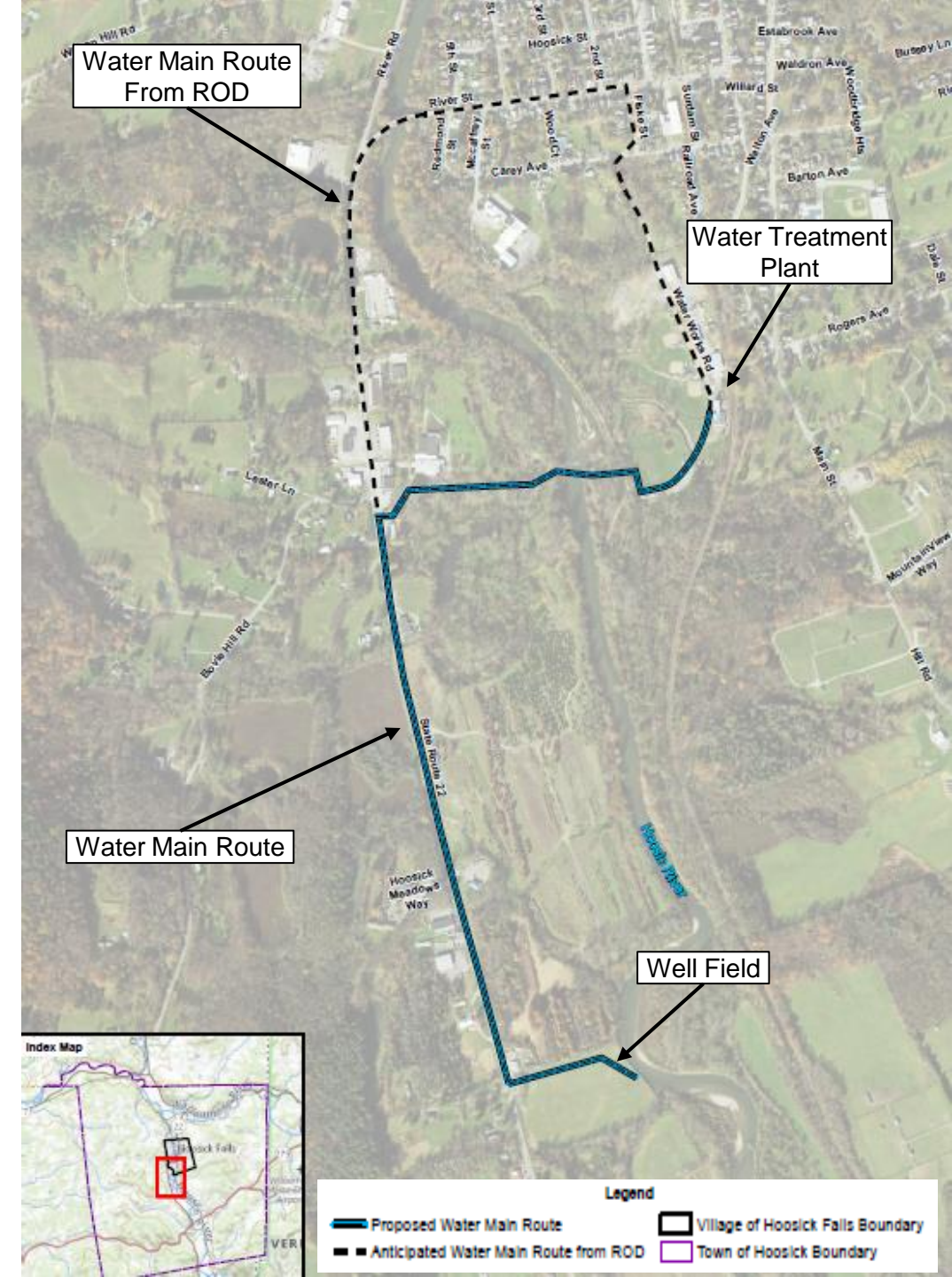


Pre-Design Investigation



Water Main Route

- Objective – evaluate potential alternative route for water main line described in ROD
- Benefits of new route:
 - avoid using Rt. 22 Bridge to cross Hoosic River
 - avoid disruption associated with installation of water main through Village streets
 - shorter more direct route to Water Treatment Plant
- Scope:
 - topographic survey
 - 17 shallow and 2 deep borings
 - geotechnical analysis of soil samples
- Findings – confirmed and recommend use of alternative route in design



Integration with Existing Village Infrastructure

- Meetings held with Village (Water Department, DPW, consultant)
- Reviewed as-built drawings of existing treatment system
- Evaluated connection of new water transmission line to existing system
- Proposed selection of pumps, generators, security measures, well-head completion details, and system controls



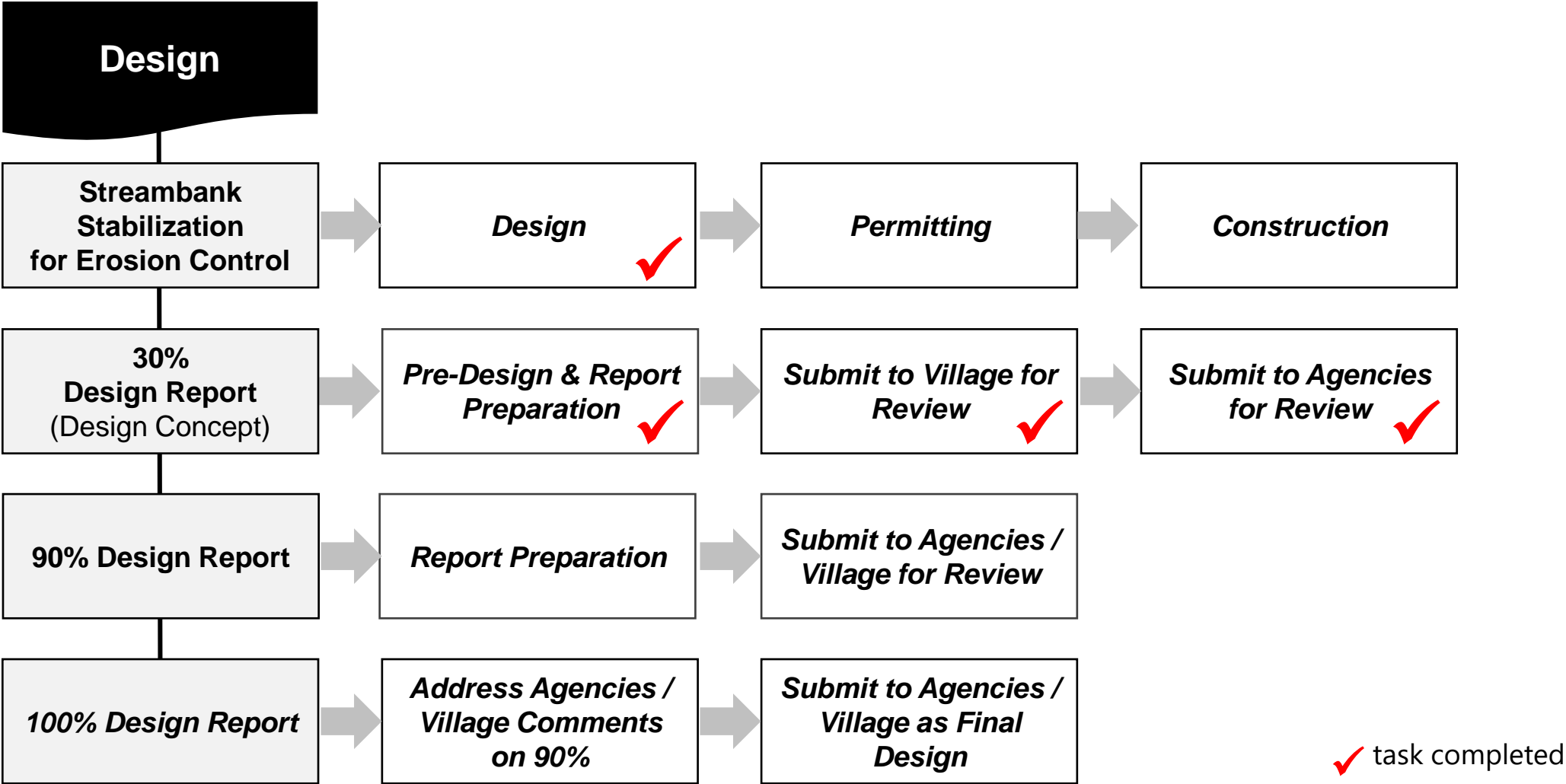
Water Supply Well Field Evaluation

- Objective – determine if two wells within proposed well field can each supply demand required by ROD (785 gpm)
- Findings:
 - pump test - existing well yielded 800 gpm
 - favorable geology for 2nd well near 1st well
- Next Steps – install and perform pump test on 2nd well

Final configuration of new water supply will consist of this new well field south of the Village (two new production wells) and Village Well #7 (backup)



Design



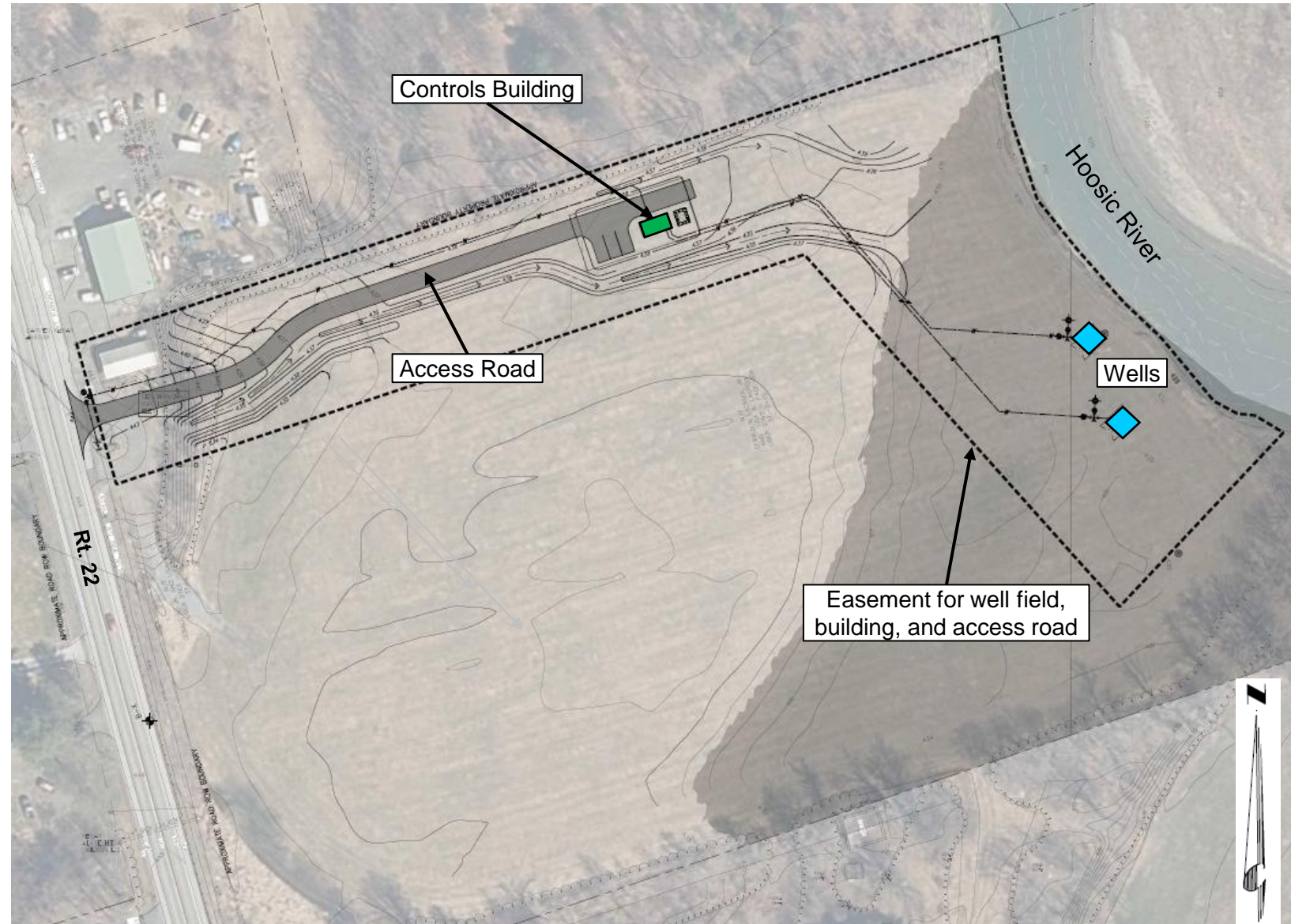
Streambank Stabilization

- 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 in order to protect new supply wells and infrastructure
- Meetings held with NYSDEC regarding design
- Proposed design considers geometry of river cross section, characteristics of riverbank, water flow, and use of combination of hard and soft armoring
- Permit application package submitted to NYSDEC and USACE in May 2023
- Must be completed by September 30



Design Concept

- Well Field
 - layout of well field including two wells with well head protection, controls building with emergency generator, access road
- Transmission Line
 - NY Rt. 22 right-of-way, easements across private properties, horizontal drilling beneath Hoosic River, connection at WTP (not shown)



Progress and Schedule

