Town of Enfield: Upgrading the Water Pollution Control Facility

Planning & Zoning Commission
November 16, 2017

Jonathan Bilmes & Kevin Shlatz, Town of Enfield

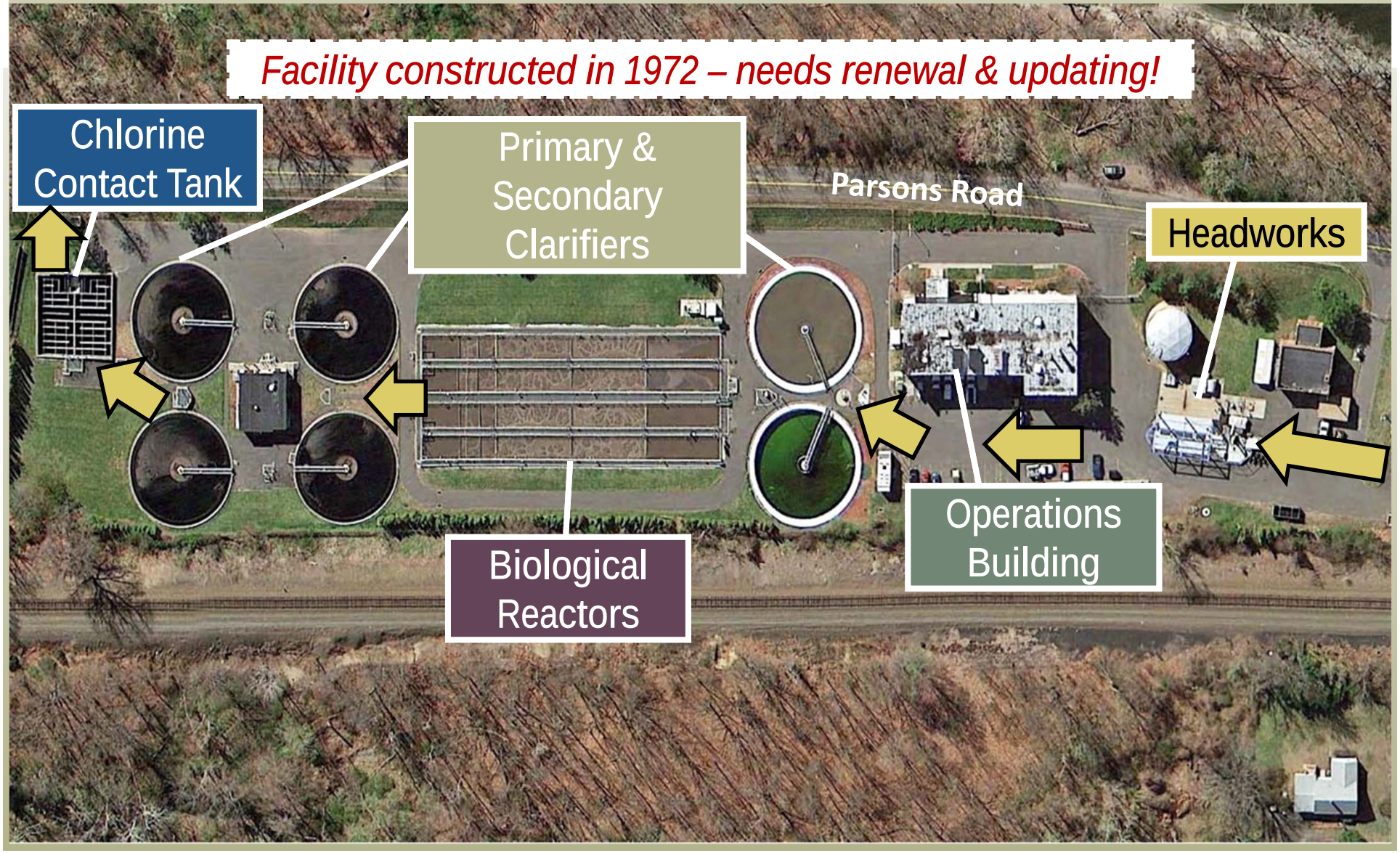
Tom Schwartz & Shelby Beauchemin, Woodard & Curran

Kevin Flood, Fuss & O'Neill, Owner's Project Manager

Eddie Widofsky, Steffian Bradley Architects

WOODARD &CURRAN

Enfield Water Pollution Control Facility



Project Timeline

2014
- Planning for the Facilities Plan & the upgrade
- Sewer use fee implemented

2015 2016
- Facilities Plan drafted 2015/2016 outlining upgrades
- $36M Referendum passed November 2015

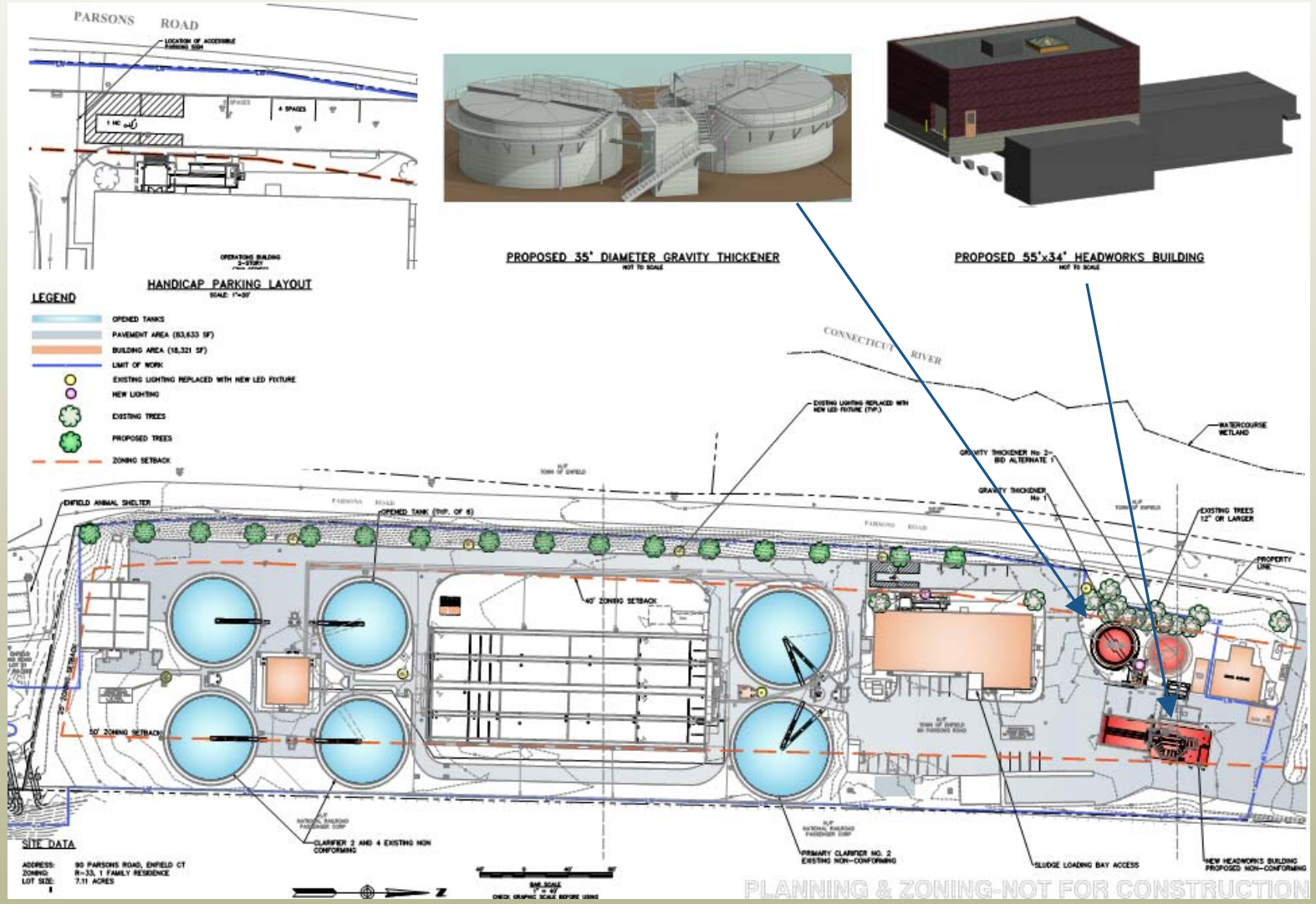
Fall 2017
- Fast-tracked design complete, now ready to bid

Spring 2018
- Construction to begin

Spring 2020
- Project Complete

WOODARD &CURRAN

Project Site Plan



WOODARD &CURRAN

View from Parsons Road

WOODARD
&CURRAN

Headworks Area - Existing

West Elevation

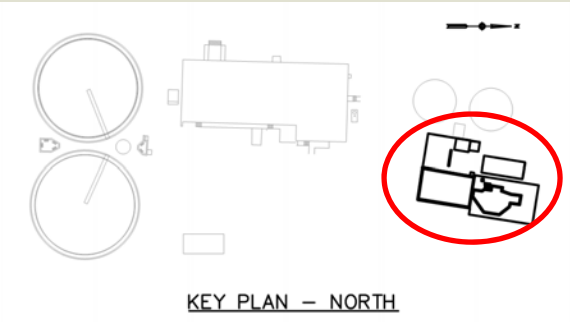
East Elevation

South Elevation

North Elevation

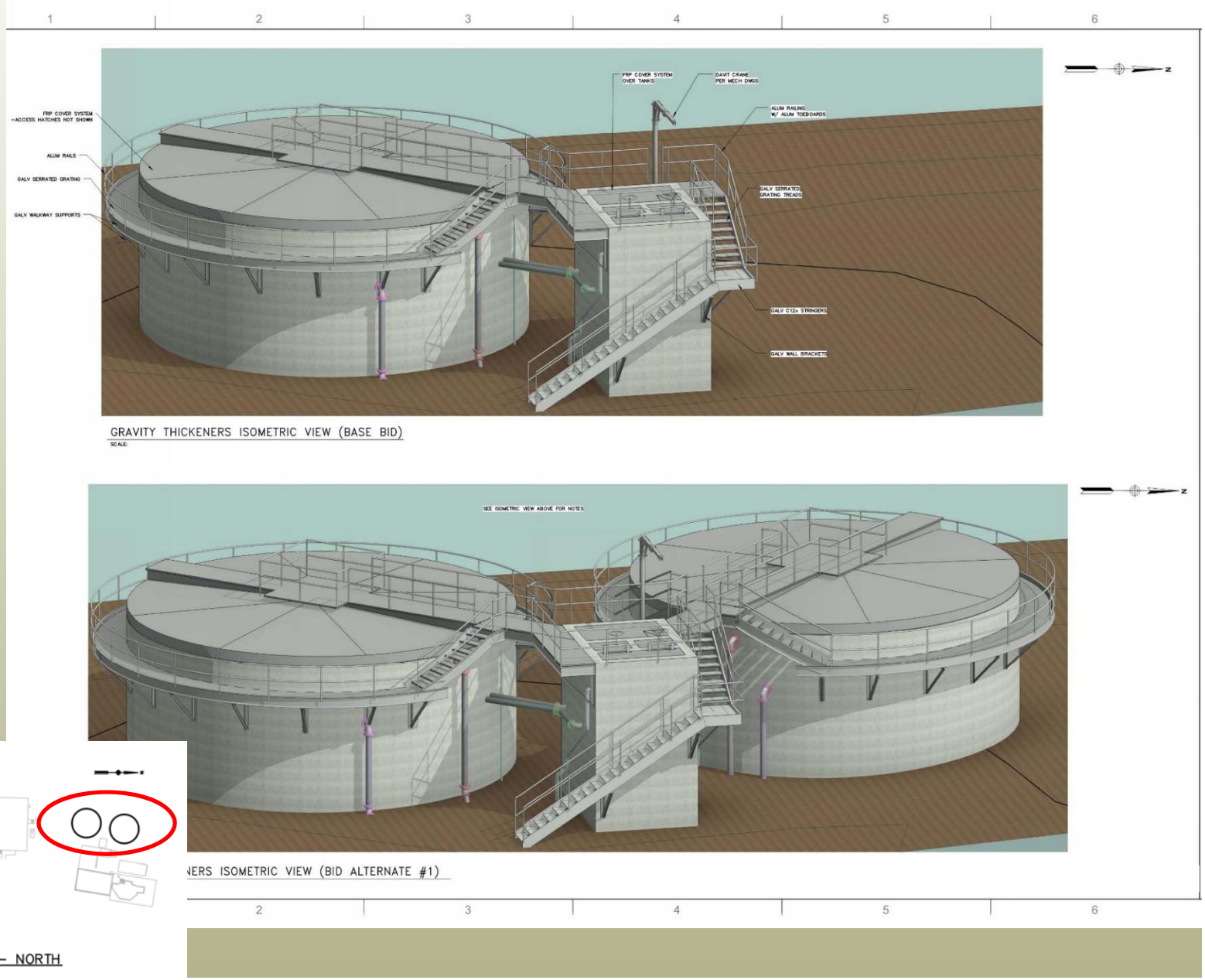
WOODARD &CURRAN

Headworks Building - Proposed



WOODARD &CURRAN

Gravity Thickeners - Proposed



Operation's Building - Existing

West Elevation

East Elevation

South Elevation

North Elevation

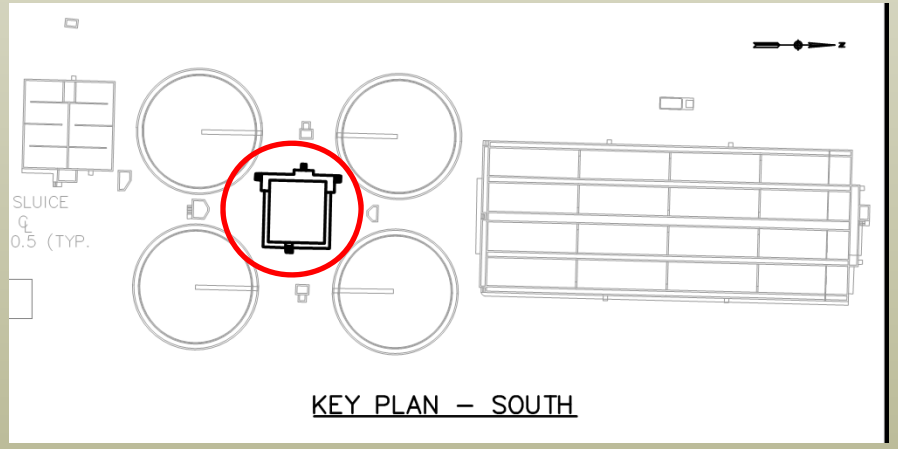
WOODARD &CURRAN

Sludge Pump Station- Existing

West Elevation

East Elevation

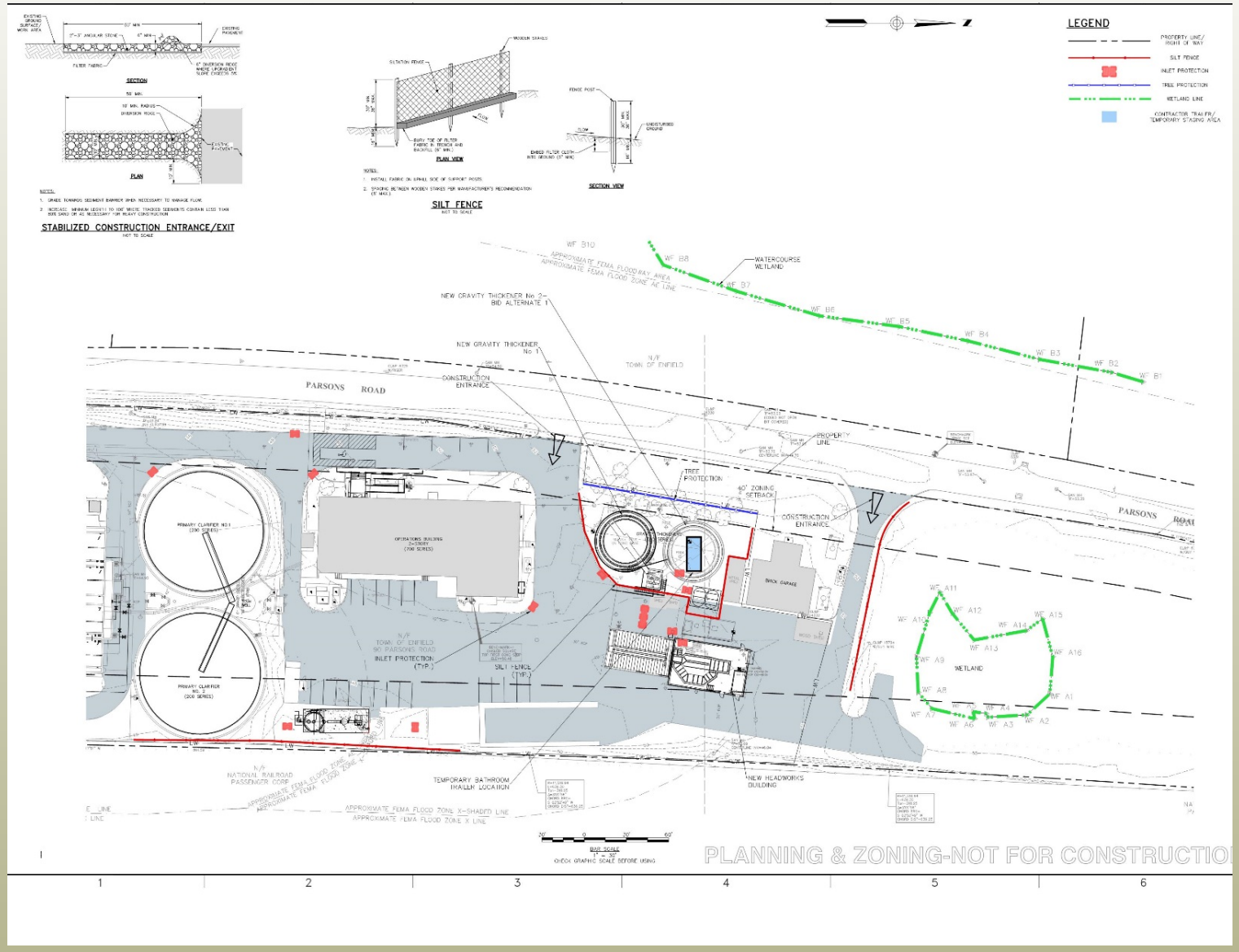
South Elevation



North Elevation

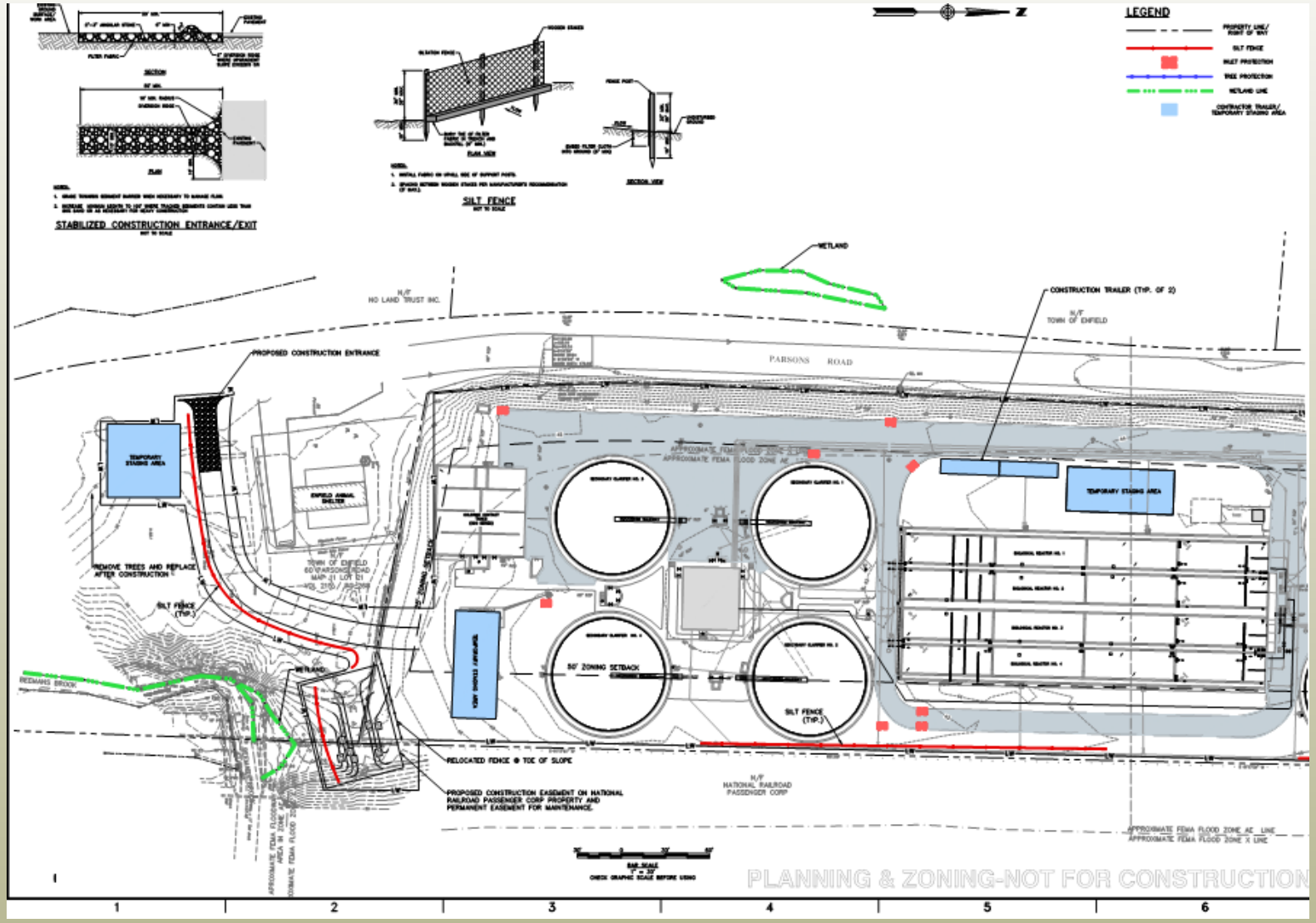
WOODARD &CURRAN

Erosion & Sedimentation Control



WOODARD & CURRAN

Erosion & Sedimentation Control for Flood Plain



WOODARD &CURRAN

What is the End Result?

- Wastewater can receive more <u>reliable</u> treatment before it flows to the CT River
- Enfield will be in compliance with current & next CTDEEP & EPA permits
- Odors will be reduced – address NOV

Improvements to the Site

- ✓ Resiliency
- ✓ Landscaping
- ✓ Site Lighting
- ✓ Handicapped parking
- ✓ Energy efficiency

Questions?

WOODARD
&CURRAN

Photos from the Road

Current-Grit Structure
Future-Gravity Thickener and Headworks

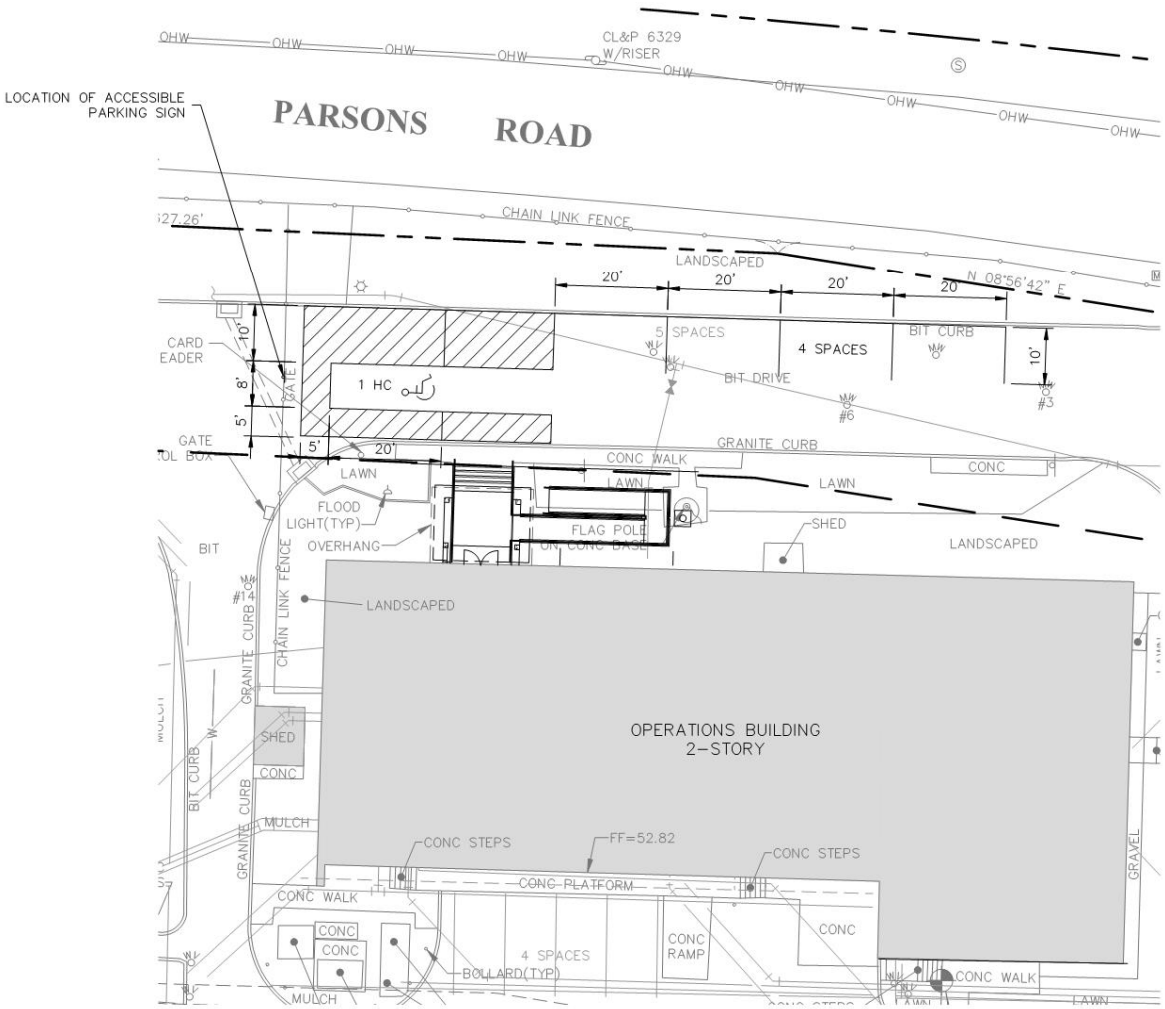
Operations Building

Sludge Pump Station

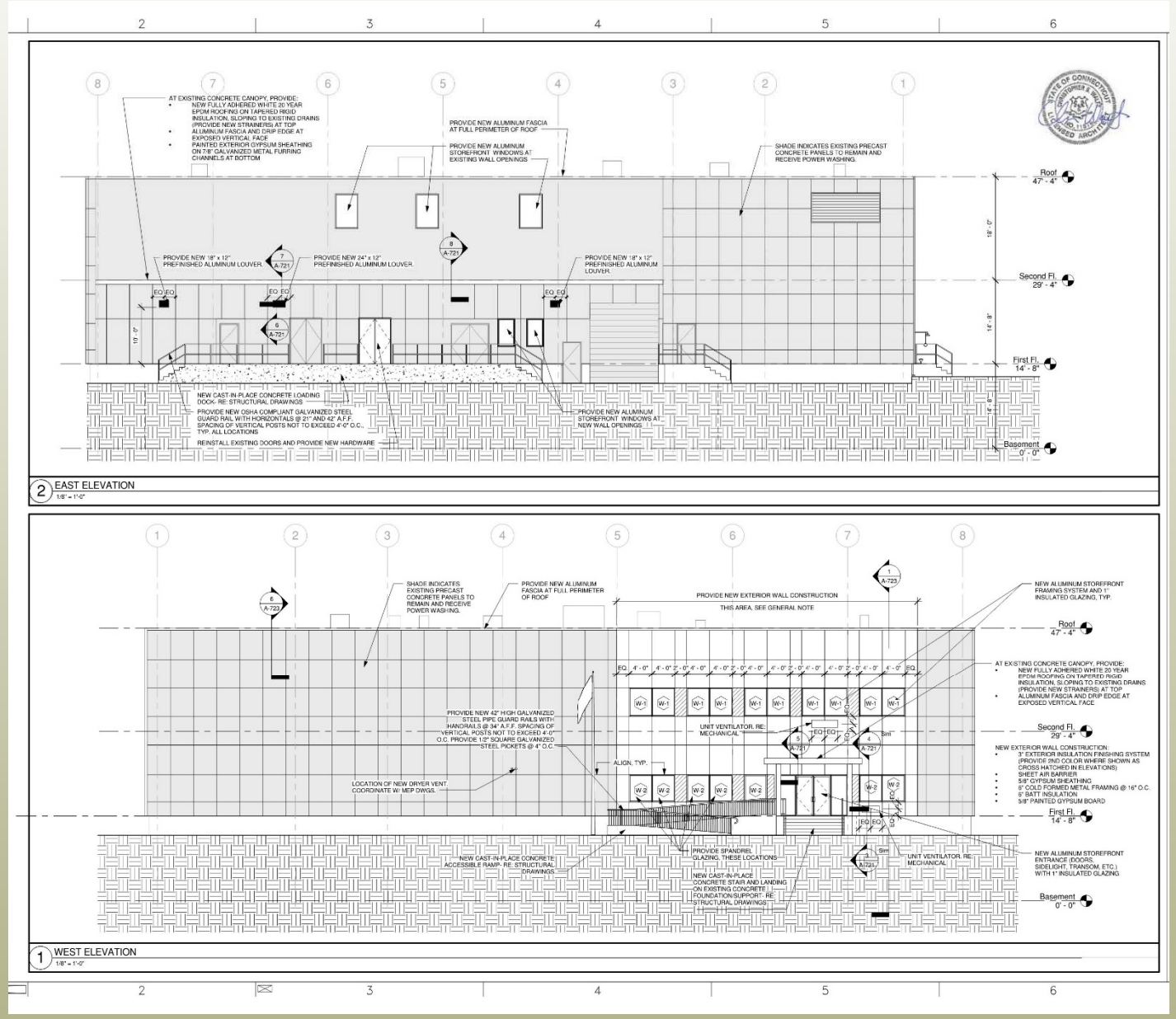
Clarifiers and Biological Reactors

WOODARD &CURRAN

Handicapped Parking

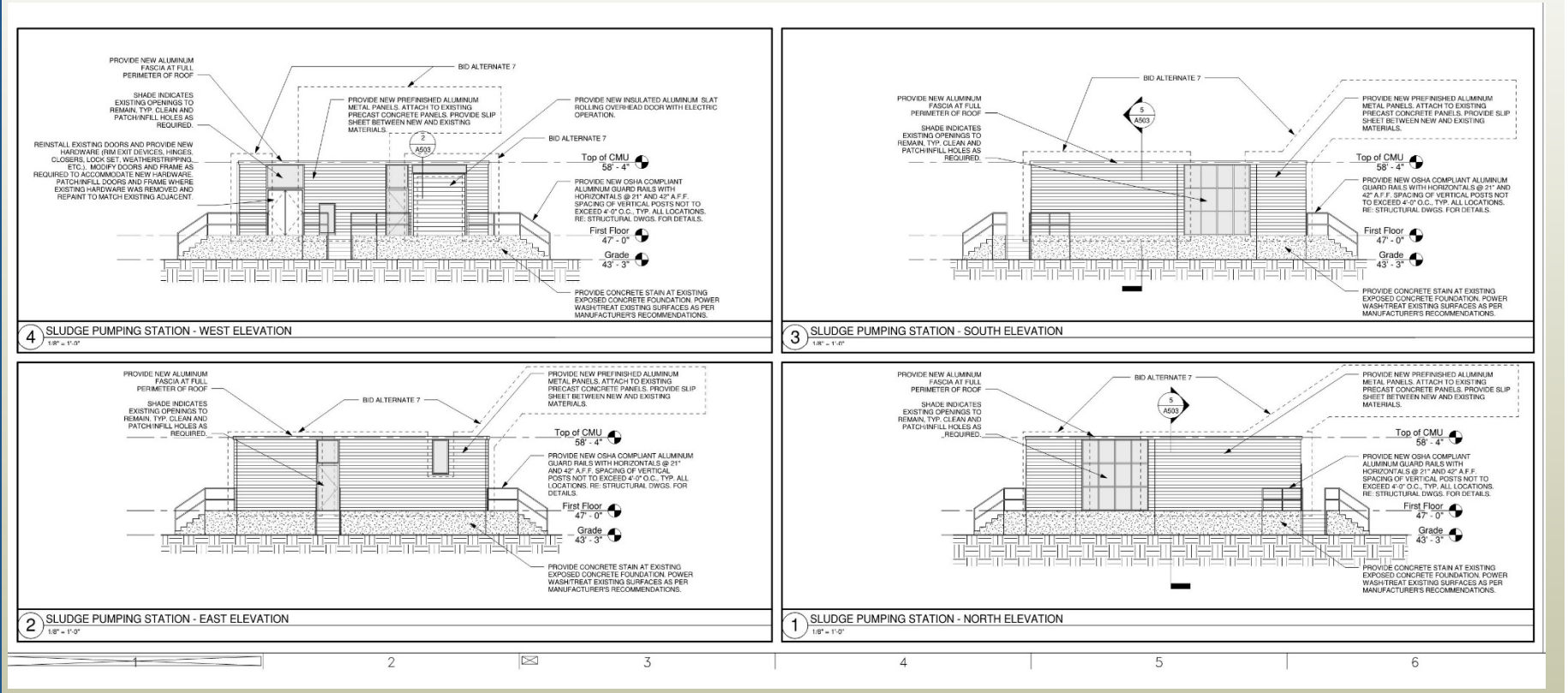


Operation's Building - Proposed



WOODARD & CURRAN

Sludge Pump Station – Proposed Alternate



WOODARD & CURRAN

What is the Upgrade Plan?

- Replace process equipment
  - Biological
  - Solids
- Replace windows on Operations Building
- Construct new Headworks Building
- Construct new Gravity Thickener(s)
- Reduce odors
- Improve site lighting
- Improve plant resiliency & energy efficiency
- Add siding to Sludge Processing Building (Alternate)

WOODARD &CURRAN