



WithersRavenel

Our People. Your Success.

March 31, 2025

Daniel Govoni
Policy Section Chief
NC Division of Coastal Management
Department of Environmental Quality
400 Commerce Avenue
Morehead City, NC 28557

Re: Town of Hertford Wastewater Treatment Plant (WWTP) Rehabilitation Project
CDBG-I Project # 18-I-3090 & 23-I-4156
CWSRF Project # SRF-W-0002
WR Project # 24-1145-A
Perquimans County, North Carolina
Request for Federal Consistency Determination

Mr. Govoni:

On behalf of the Town of Hertford, this letter constitutes a request for a review of the proposed wastewater treatment rehabilitation known as Hertford WWTP Rehabilitation Project. The project is funded by the Community Development Block Grant - Infrastructure (CDBG-I) and your comments are required as part of their guidance for the Environmental Information Document section of the Engineering Report.

The WWTP is located at 142 Meads Circle in Hertford, Perquimans County, North Carolina. The review area is ± 4 acres (Lat: 36.200334°N; Lat: -76.481091°W), located within the larger ± 10 acres parcel. The limits of disturbance will be contained within the fenced-in review area. The project area is currently a wastewater treatment plant, and the project will consist of the following:

- Grit Chamber Equipment Replacement
 - Like-for-like replacement of entire unit
- Influent Pump Station Rehabilitation
 - Like-for-like replacement of one (1) pump, one (1) VFD, and Control Panel
- Oxidation Ditch Inspection and Repair
 - Rehabilitate/replace equipment and ditch walls/bottom as needed with ditch cleaning needed to gain access, and add catwalks for operational safety measures
- Aerobic Digester's Fine Bubble Aeration System Replacement
 - Rehabilitate/replace equipment and aeration system components as needed, emptying and cleaning aerobic digester to gain access
- Effluent Pump Station Rehab
 - Like-for-like replacement of one (1) pump, three (3) check valves for the effluent pump lines, three (3) VFDs, and Control Panel
- Like-for-Like Replacement of Process Control Valves and Gates Valves
 - Two (2) Slide Gates (Chlorine Contact Chamber)
 - Three (3) Slide Gates (Flow Splitter Box)
 - Four (4) Sluice/Weir Gates (Oxidation Ditch)
 - One (1) Telescoping Valve (Sludge Holding Basin)
- SCADA and Instrumentation Process Monitoring Improvements

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- Replace and upgrade nonfunctional SCADA system
- WWTP Security System Improvements
 - Addition of a security system to provide additional measures of safety
- Disc Filters Removal and Disposal
 - Removal of Nonfunctional Disc Filters

The WWTP has aging and failing equipment. The plant's compliance history includes multiple enforcements for untreated wastewater bypasses, sanitary sewer overflows, notices of violations, and notices of deficiencies. The purpose of this project is to rehabilitate/replace certain critical treatment components to enable the WWTP to function properly and address the issues causing the compliance violations.

The proposed project is in a coastal county and will receive federal funding and therefore requires a Federal Consistency determination under the Coastal Zone Management Act. Therefore, on behalf of the Town of Hertford, we are submitting the following information to you for concurrence that the proposed project is consistent with the Coastal Zone Management Act and the enforceable policies of NC's approved Coastal Zone Management Program.

WithersRavenel completed a wetland determination for the project area. There are no wetlands in the project area, therefore a 404/401 permit are not required. The project area is not within 75 feet of an AEC, therefore a CAMA permit is not required. Additionally, a threatened and endangered species survey was conducted for the project areas, and the proposed project will not adversely affect any state or federal listed threatened or endangered species. During the project, appropriate sediment and erosion control permits will be obtained.

Attached are project maps, an aerial photograph, and USGS Quadrangle maps with the boundary of the project area and larger property. Photos of the existing conditions within the project area are attached as well.

We believe that the proposed project is consistent with the Federal Coastal Zone Act of 1972 and the enforceable policies of the NC Coastal Zone Management Program, and we are requesting concurrence from NCDCEM.

Sincerely,

WithersRavenel



Gary Kreiser, LSS
Senior Environmental Project Scientist
gkreiser@withersravenel.com
(919) 469-3340

Attachments:

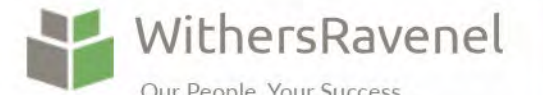
- Project Vicinity Map, Existing Components Map, Project Locations Map
- USGS Quads
- Aerial Photo
- Wetland Determination Exhibit
Photo Documentation of Existing Conditions

Project Vicinity, Existing Components, Project Locations, Environmental Features



Figure 1. Hertford WWTP CDBG/SRF Rehabilitation Project Vicinity Map

Town of Hertford, NC



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This map is for informational purposes only. All feature locations displayed are approximate based on available data sources.

Data features are not based on professional field survey unless stated otherwise.

Legend

- Hertford WWTP
- +— Railroad
- Municipal Limits**
- Town of Hertford
- Town of Winfall

0 5001,000 2,000
 Feet

1 inch = 2,500 feet

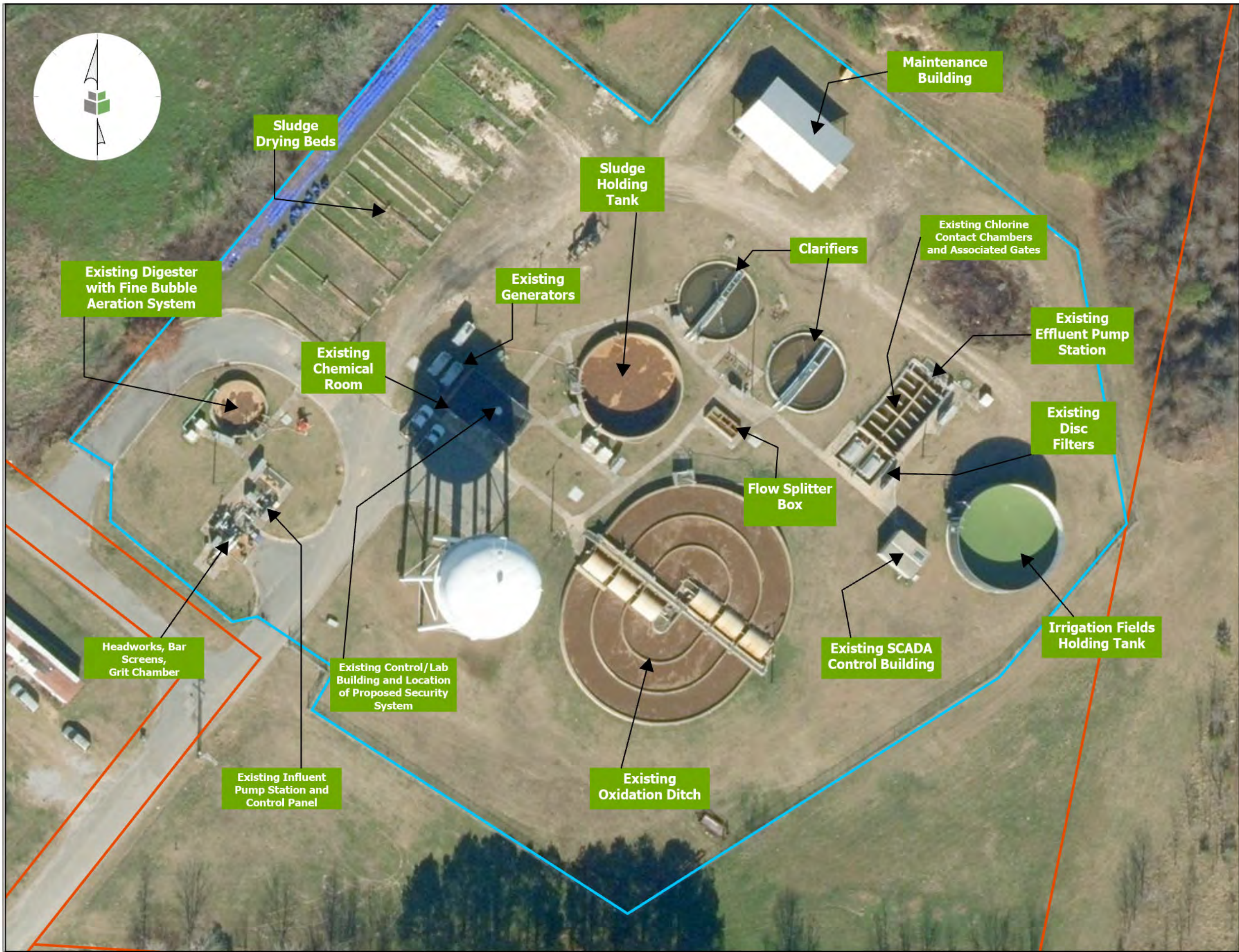
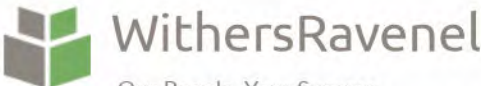


Figure 2. Hertford WWTP CDBG/SRF Rehabilitation WWTP Existing Components Map

Town of Herford, NC



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Legend

- Project Area
- Parcels



1 inch = 50 feet

Figure 3. Hertford WWTP CDBG/SRF Rehabilitation Project Locations Map

Town of Herford, NC



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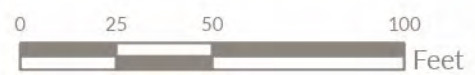
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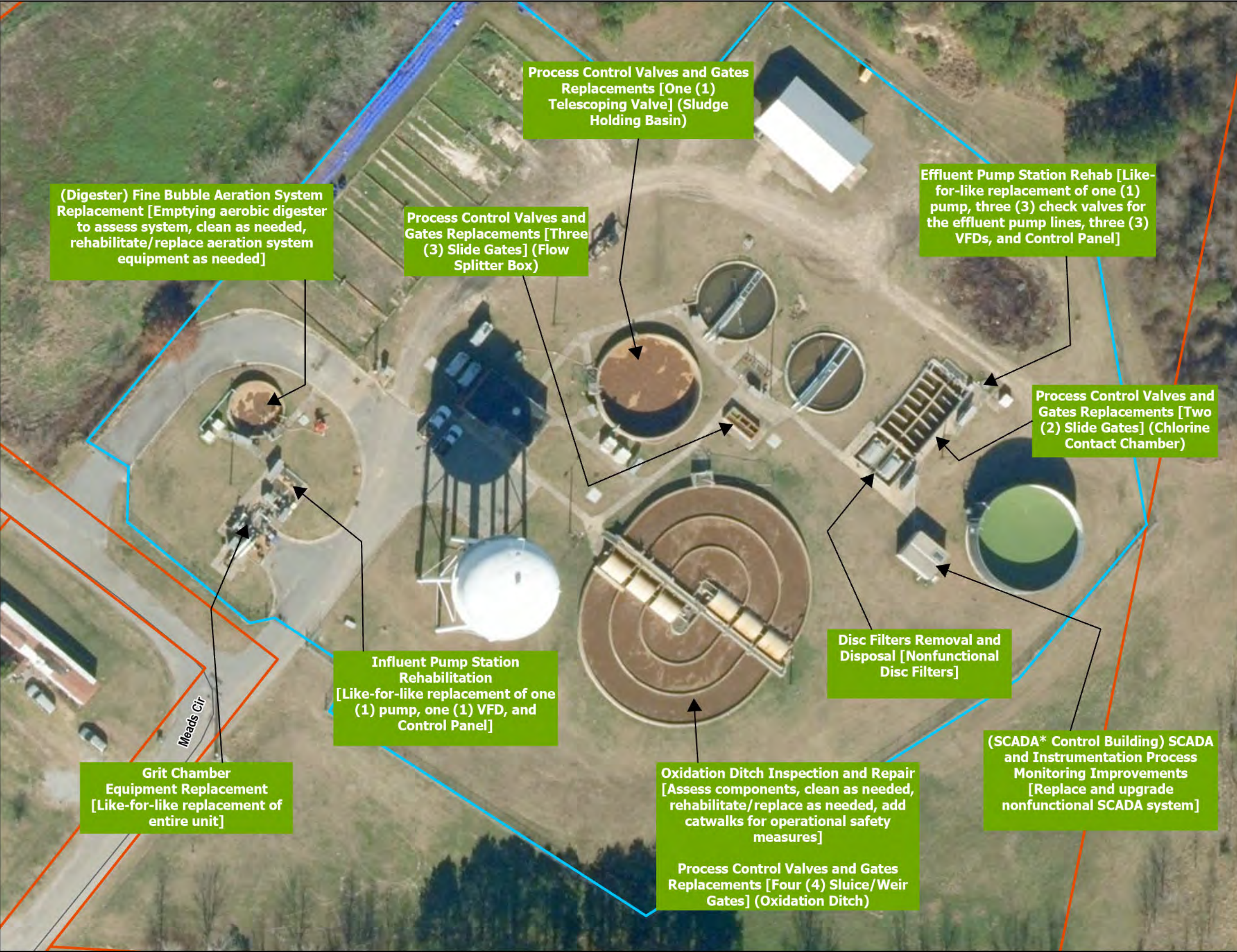
- Project Area
- Parcels

* SCADA will be rewired as needed for each piece of equipment

WWTP Security System will be installed on project site, exact locations TBD



1 inch = 50 feet



(Digester) Fine Bubble Aeration System Replacement [Emptying aerobic digester to assess system, clean as needed, rehabilitate/replace aeration system equipment as needed]

Process Control Valves and Gates Replacements [One (1) Telescoping Valve] (Sludge Holding Basin)

Process Control Valves and Gates Replacements [Three (3) Slide Gates] (Flow Splitter Box)

Effluent Pump Station Rehab [Like-for-like replacement of one (1) pump, three (3) check valves for the effluent pump lines, three (3) VFDs, and Control Panel]

Process Control Valves and Gates Replacements [Two (2) Slide Gates] (Chlorine Contact Chamber)

Influent Pump Station Rehabilitation [Like-for-like replacement of one (1) pump, one (1) VFD, and Control Panel]

Disc Filters Removal and Disposal [Nonfunctional Disc Filters]

(SCADA* Control Building) SCADA and Instrumentation Process Monitoring Improvements [Replace and upgrade nonfunctional SCADA system]

Grit Chamber Equipment Replacement [Like-for-like replacement of entire unit]

Oxidation Ditch Inspection and Repair [Assess components, clean as needed, rehabilitate/replace as needed, add catwalks for operational safety measures]

Process Control Valves and Gates Replacements [Four (4) Sluice/Weir Gates] (Oxidation Ditch)

Figure 4. Hertford WWTP CDBG/SRF Rehabilitation Project Environmental Features Map

Town of Hertford, NC



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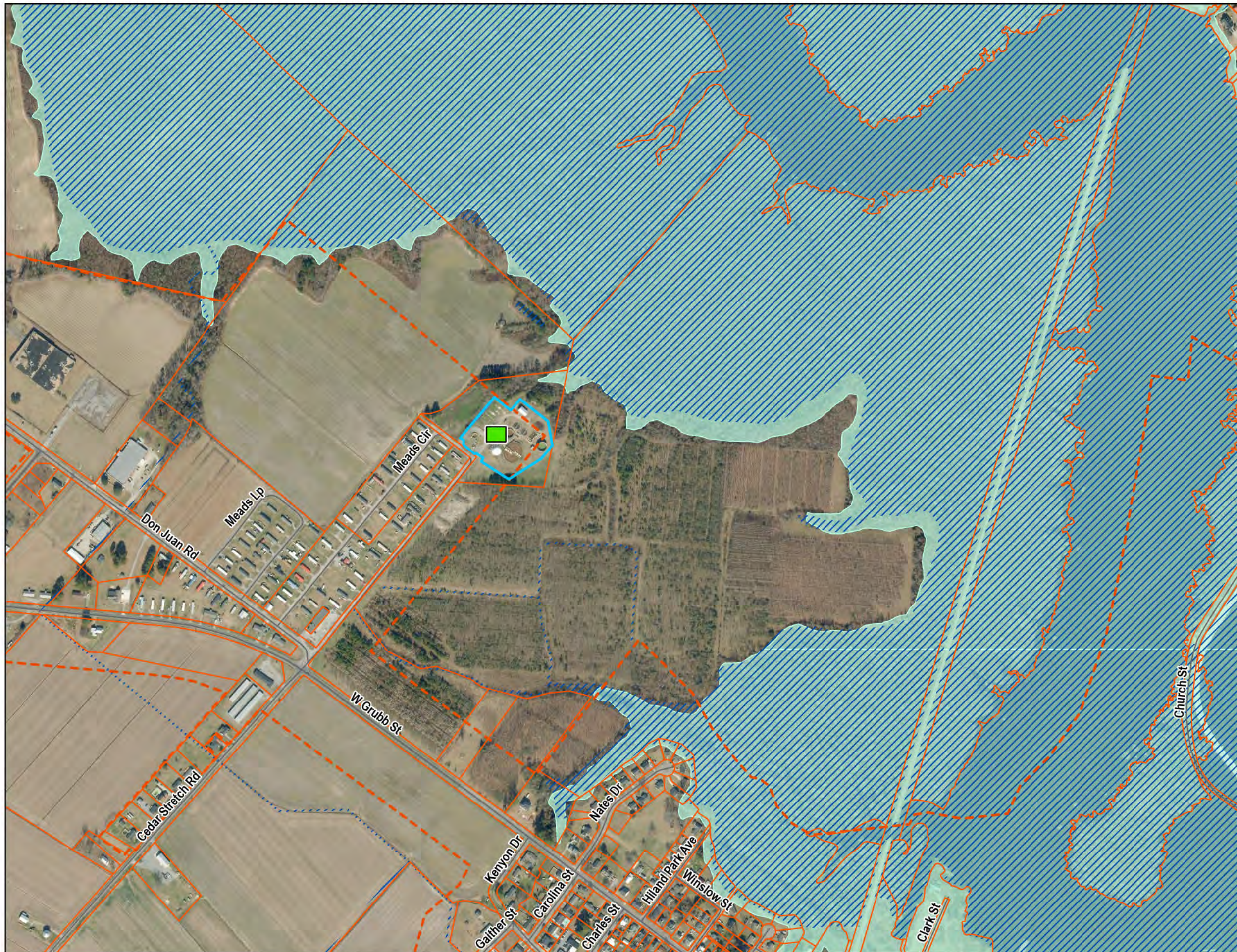
Data features are not based on professional field survey unless stated otherwise.

Legend

- Project Area
- Parcels
- Town of Hertford
- Centerlines
- Wetlands - NWI
- Flood Hazard
- Hertford WWTP

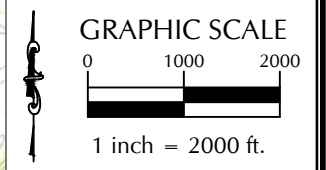


1 inch = 575 feet



USGS QUADRANGLE EXHIBITS

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OVERALL PARCEL BOUNDARY

PROJECT AREA

RIVERWOOD DR
STEVENSON DR

CENTER HILL HWY

CEDAR STRETCH RD

BALLHACK RD

Bear Swamp

KNOWLES LANDING DR

Perquimans River

Mill Creek

Raccoon Creek

Tom Waters Creek

Perishoes Creek

Lakers Creek

Raccoon Cr

Bear Garden Point

Ferry Point

Crow Point Island
Crow Point

Hertford

S EDENTON ROAD ST

GASTON DR

WYNNE FORK RD

GRANBY ST

HARVEY POINT RD

WINFALL BLVD

37

Bus 17

CREEK DR
MILLER ST

15 NOXIN ST

17

MEADS CIR

DON JUAN RD

W GRUBB ST

DOBBS ST

MARKET ST

KING ST

HYDE PARK ST

S CHURCH ST

Cedarwood Cem

PO

Nixon

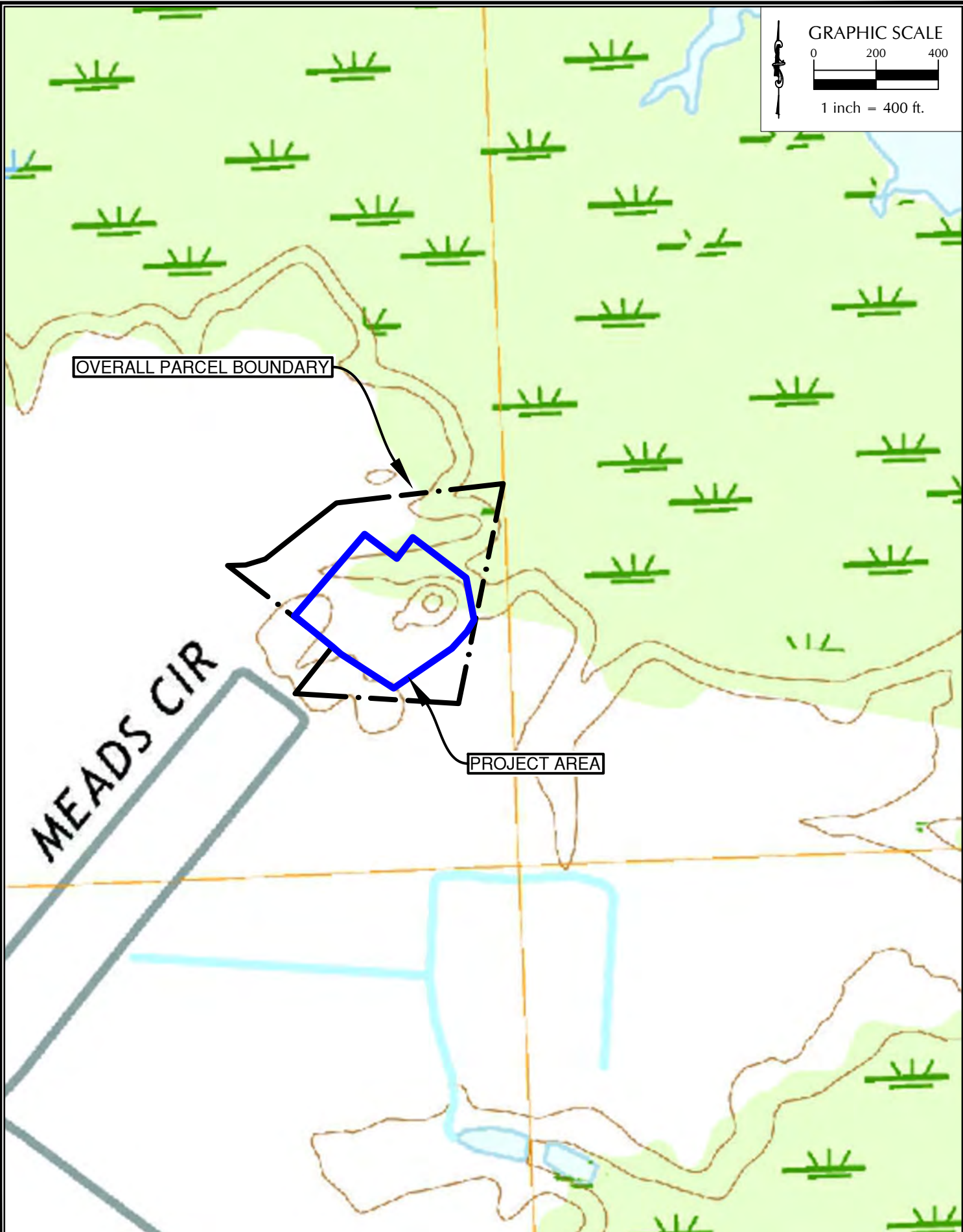
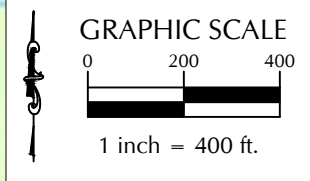
HERTFORD WWTP REHAB

USGS (2019) - HERTFORD



HERTFORD PERQUIMANS COUNTY NORTH CAROLINA

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HERTFORD WWTP REHAB

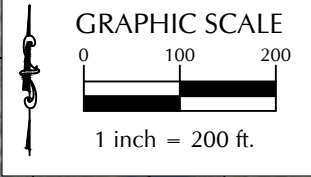
USGS (2019) - HERTFORD



WithersRavenel
Engineers | Planners | Surveyors

HERTFORD PERQUIMANS COUNTY NORTH CAROLINA

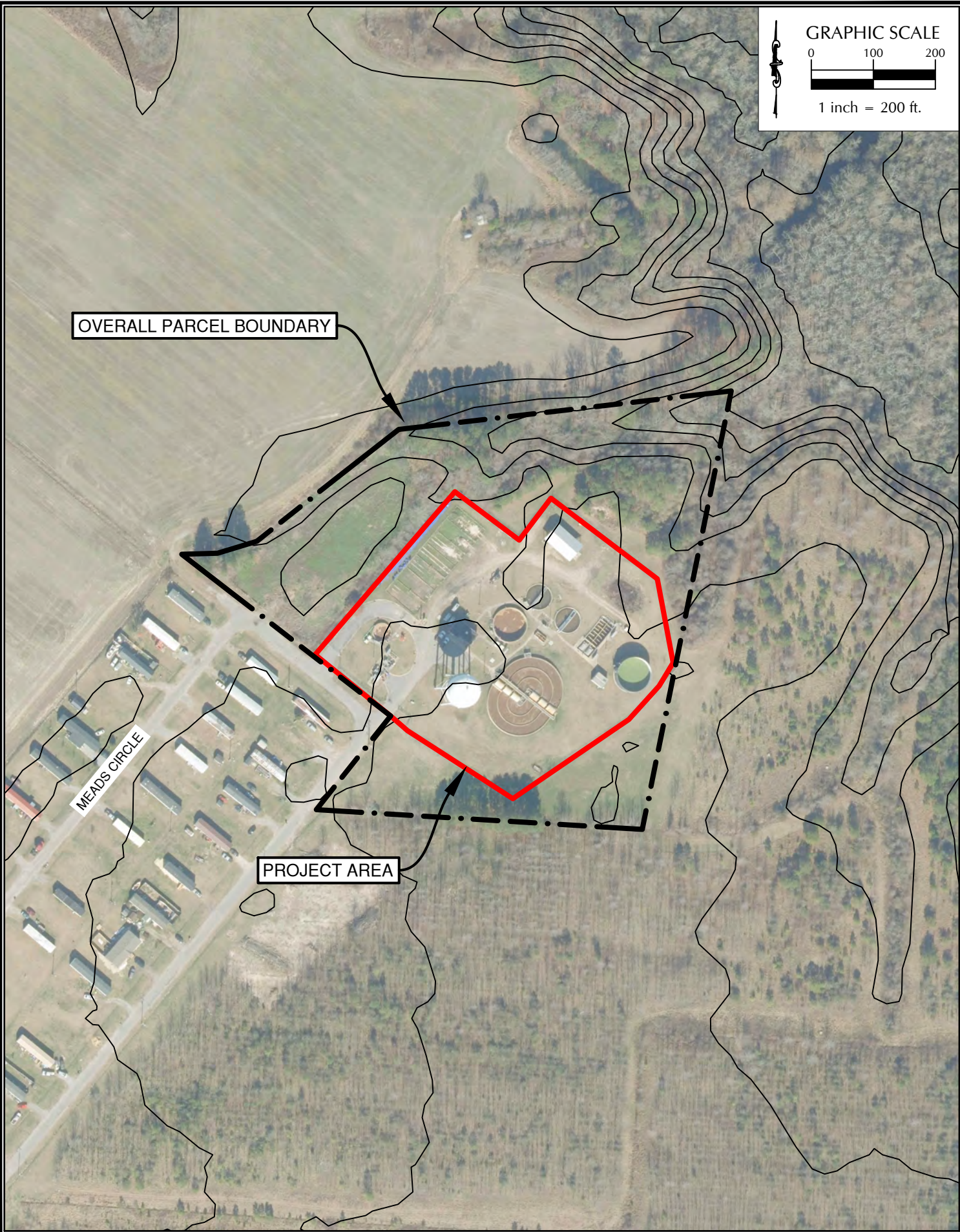
AERIAL EXHIBIT



OVERALL PARCEL BOUNDARY

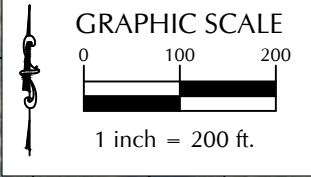
MEADS CIRCLE

PROJECT AREA



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PARCEL EXHIBIT



PERQUIMANS CO. PARCEL ID: 3-0039-0044
TOWN OF HERTFORD
PO BOX 32
HERTFORD, NC 27944
±10 ACRES

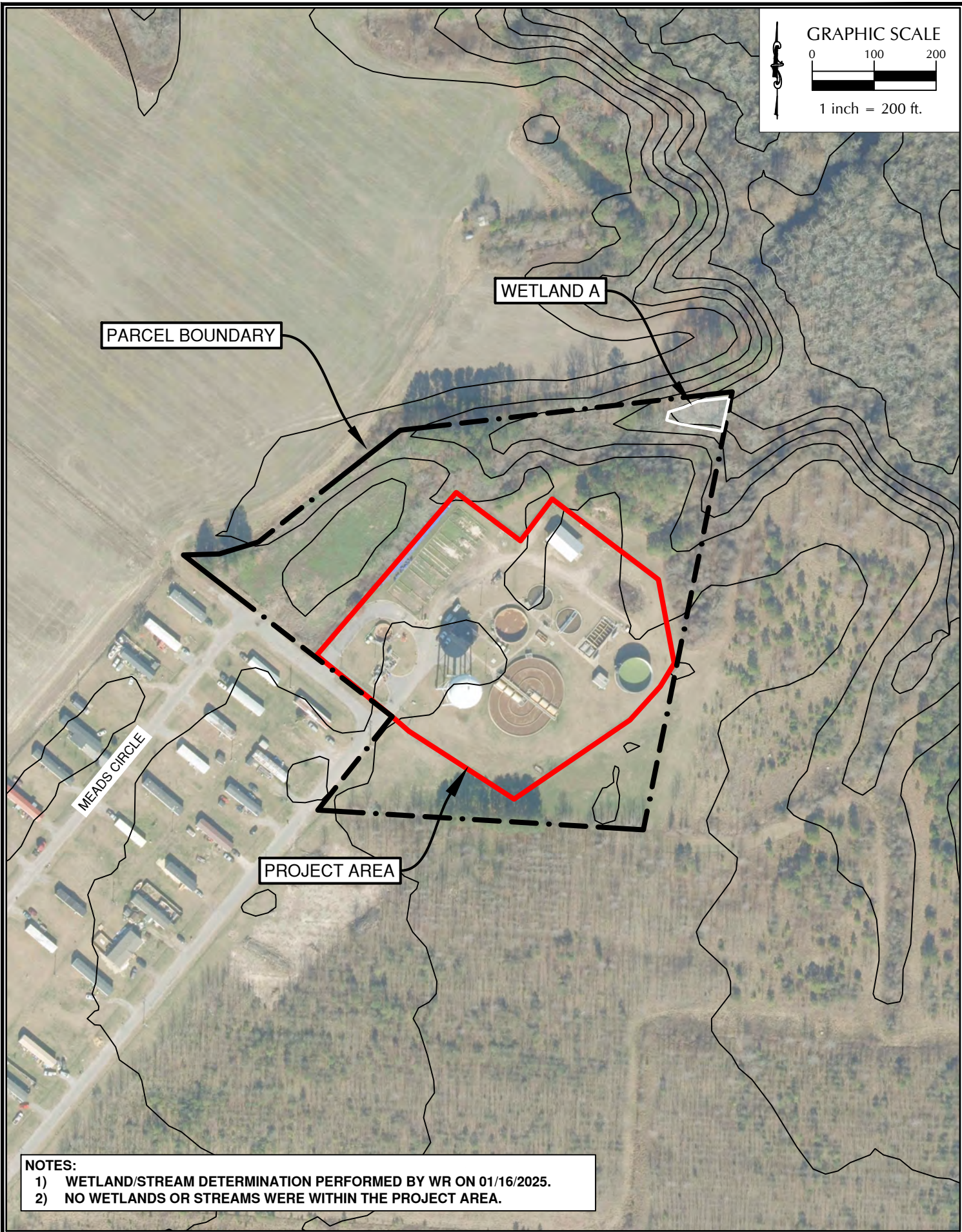
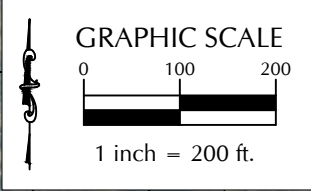
OVERALL PARCEL BOUNDARY

PROJECT AREA
±4 ACRES

MEADS CIRCLE

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WETLAND/STREAM DETERMINATION EXHIBIT



NOTES:

- 1) WETLAND/STREAM DETERMINATION PERFORMED BY WR ON 01/16/2025.
- 2) NO WETLANDS OR STREAMS WERE WITHIN THE PROJECT AREA.

PHOTO DOCUMENTATION



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**Hertford WWTP – Hertford, Perquimans County
WWTP Rehabilitation
Photographic Documentation (01/16/2025)**



Photo 1: View of WWTP, facing northeast.



Photo 2: View of WWTP, facing east.



Photo 3: View of WWTP, facing north.



Photo 4: View of WWTP, facing south.



Photo 5: View of WWTP, facing east.



Photo 5: View of WWTP, facing south.

APPENDIX B.11: Hertford WWTP Photo Documentation



Grit Chamber from Above Access Grate (Side 1)



Grit Chamber from Above Access Grate (Side 2)



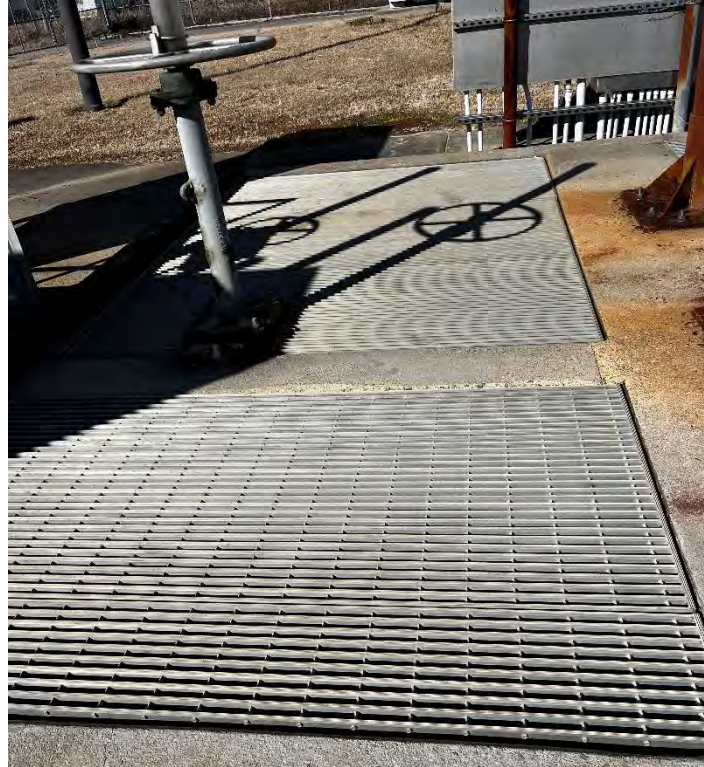
Grit Chamber and Panels



Grit Screw Classifier



Belt Conveyor, Grit Pump, and Classifier



Intake Pumps 1, 2, & 3 Grates



Intake Pumps 1 & 2's Shared Wet Well



Intake Pump 3's Wet Well



Influent Pump Control Panel



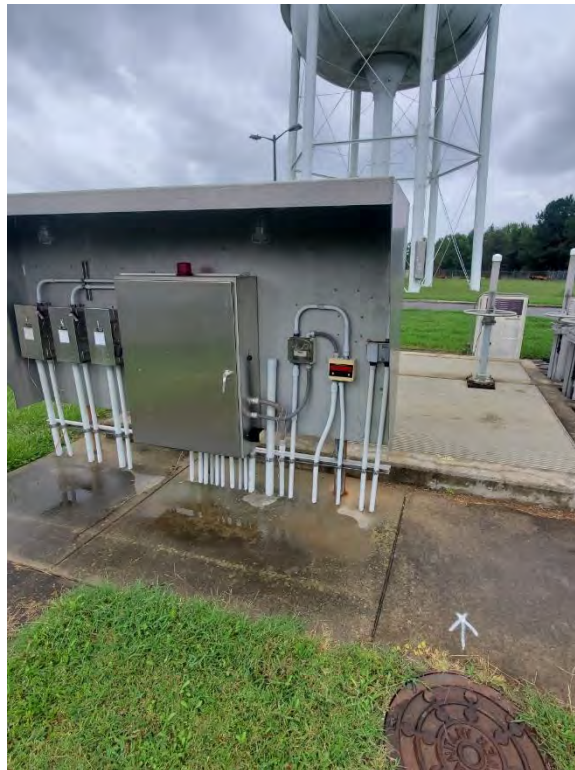
Safety Switches 1, 2, & 3 at Influent Control Panel



Inside of Influent Control Panel



Temporary Dual-Pump Controller for Influent Pump Station Controls



Influent Pump Control Panel



Oxidation Ditch Aerators



Oxidation Ditch



Oxidation Ditch



Aerobic Digester



Clarifiers



Flow Splitter Box



Sludge Holding Tank



Disc Filters



Chlorine Contact Chamber



Permanently Closed Slide Gate



Permanently Open Slide Gate



Effluent Pump Station



Effluent Pump Check Valves



Effluent Pump Panel



SCADA Panel