
FIGURES

PREFERRED ALTERNATIVE FIGURE SET



FIGURE 5.1-1
OVERALL LOCATION MAP



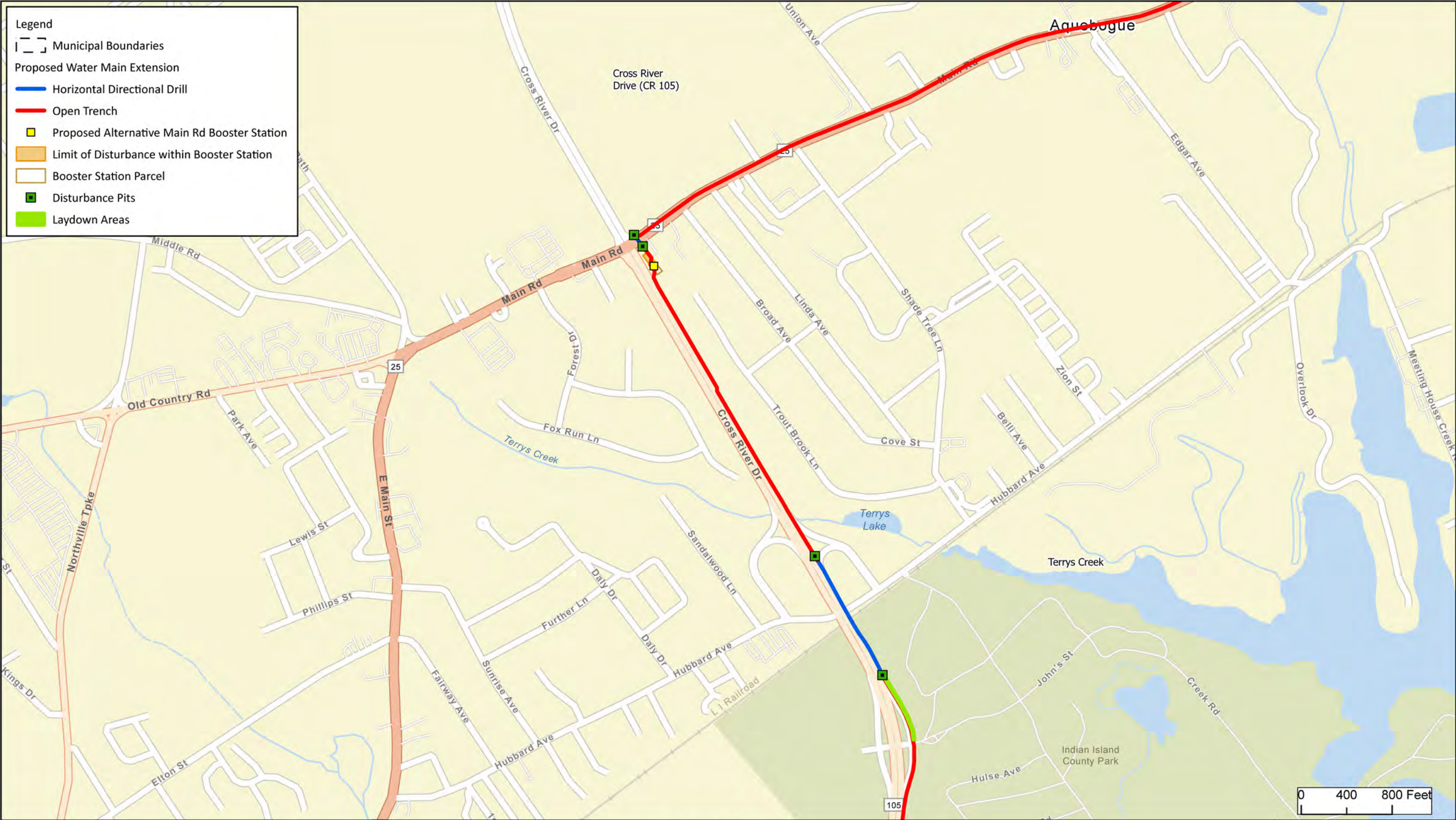
Sources: ESRI WMS, 2023; SCWA, 2025
Scale: 1 inch equals 11,000 feet



SCWA North Fork
Water Main Extensions

Preferred Alternate Route
and E. Marion to Orient





**FIGURE 5.1-1-B
LOCATION MAP**



Sources: ESRI WMS, 2023; SCWA, 2025
Scale: 1 inch equals 800 feet



**SCWA North Fork
Water Main Project**

Preferred Alternative Route



Sources: ESRI WMS, 2023; SCWA, 2025
Scale: 1 inch equals 800 feet

**FIGURE 5.1-1-C
LOCATION MAP**



**SCWA North Fork
Water Main Project**
Preferred Alternative Route







FIGURE 5.1-2-B
AERIAL MAP



Sources: ESRI WMS, 2023; SCWA, 2025
Scale: 1 inch equals 800 feet



SCWA North Fork
Water Main Project
Preferred Alternative Route



Sources: ESRI WMS, 2023; SCWA, 2025
Scale: 1 inch equals 800 feet

FIGURE 5.1-2-C
AERIAL MAP



SCWA North Fork
Water Main Project
Preferred Alternative Route

Legend

Municipal Boundaries

Proposed Water Main Extension

Open Trench

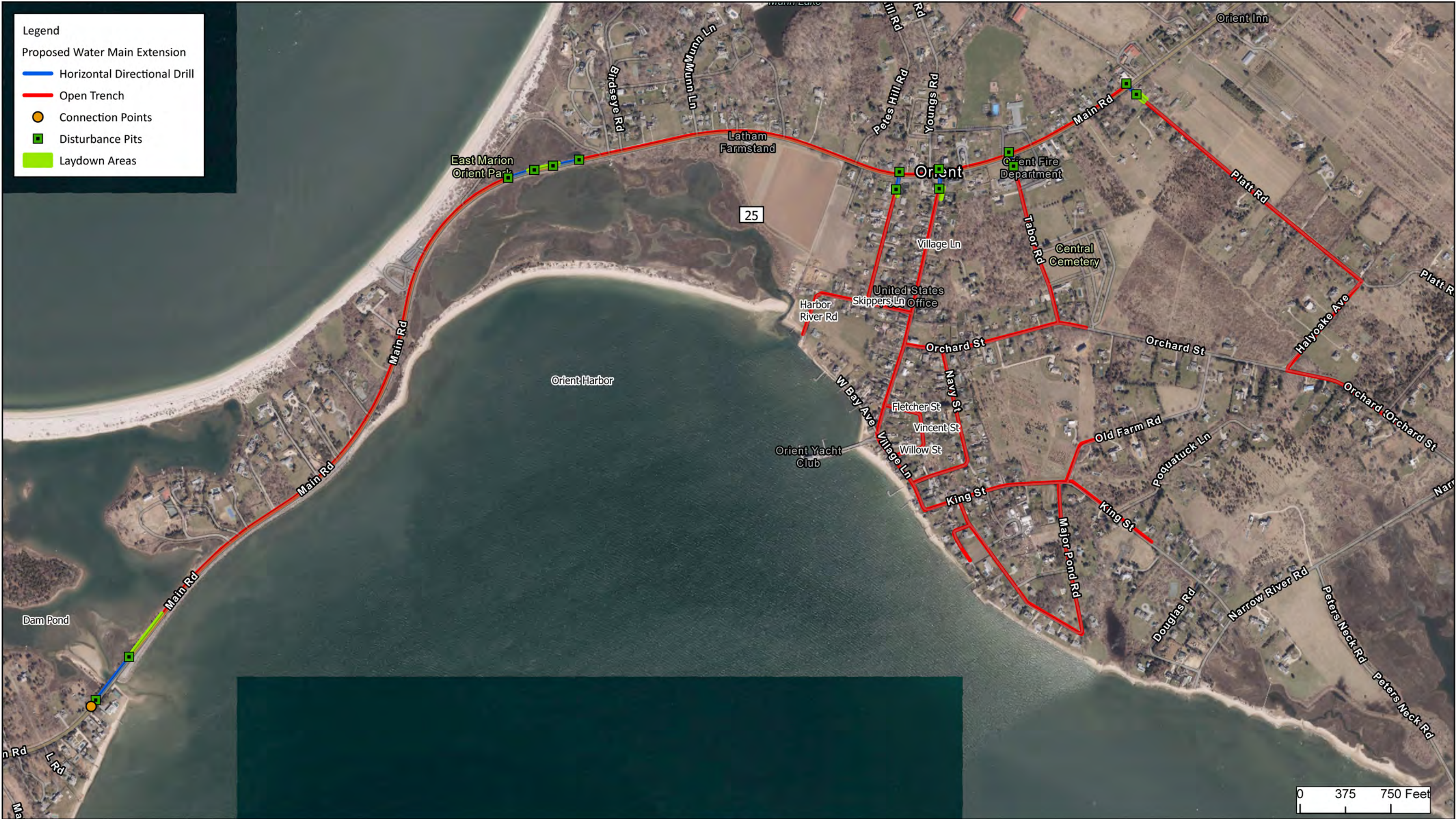
Connection Points



Legend

Proposed Water Main Extension

- Horizontal Directional Drill
- Open Trench
- Connection Points
- Disturbance Pits
- Laydown Areas



Sources: ESRI WMS, 2023; SCWA, 2025
Scale: 1 inch equals 750 feet

FIGURE 5.1-2-E
AERIAL MAP



SCWA North Fork
Water Mains Project

E. Marion to Orient

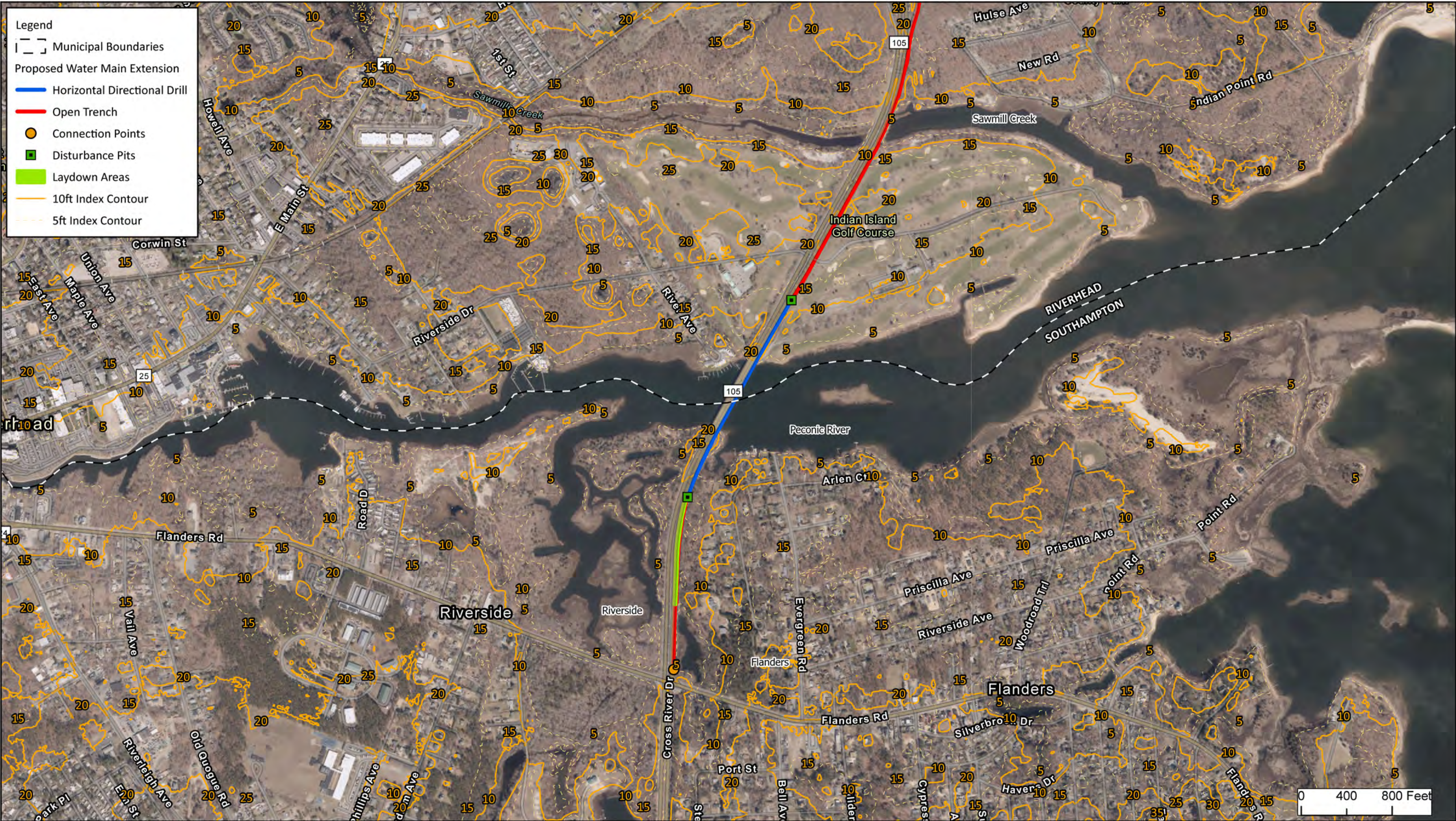


FIGURE 5.1-3-A
TOPOGRAPHY MAP



Sources: ESRI WMS, 2023; SCWA, 2025; USGS Long Island LiDAR Collection, 2014
Scale: 1 inch equals 800 feet

SCWA North Fork
Water Main Project
Preferred Alternative Route

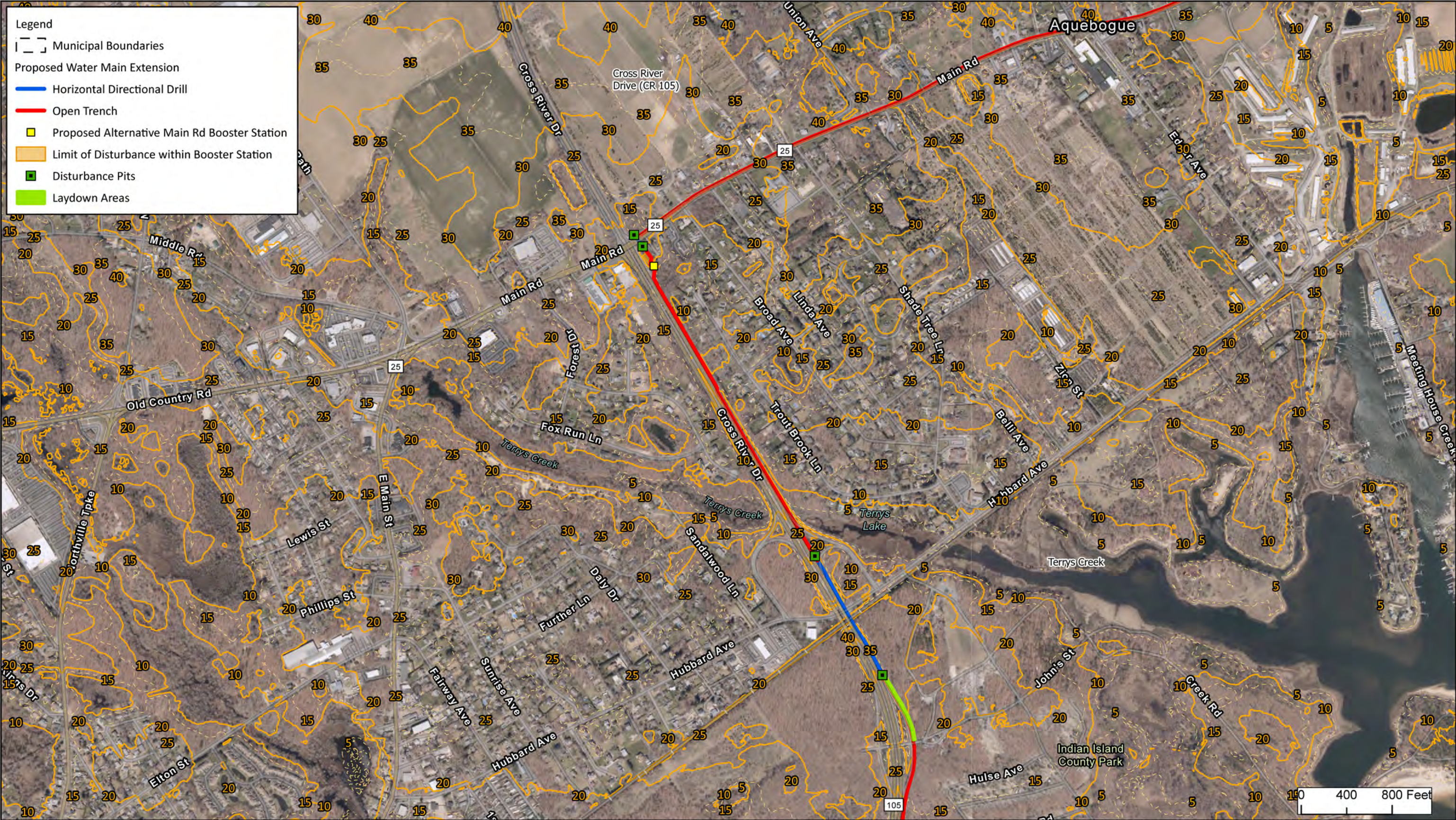


FIGURE 5.1-3-B
TOPOGRAPHY MAP



Sources: ESRI WMS, 2023; SCWA, 2025; USGS Long Island LiDAR Collection, 2014
Scale: 1 inch equals 800 feet



SCWA North Fork
Water Main Project
Preferred Alternative Route



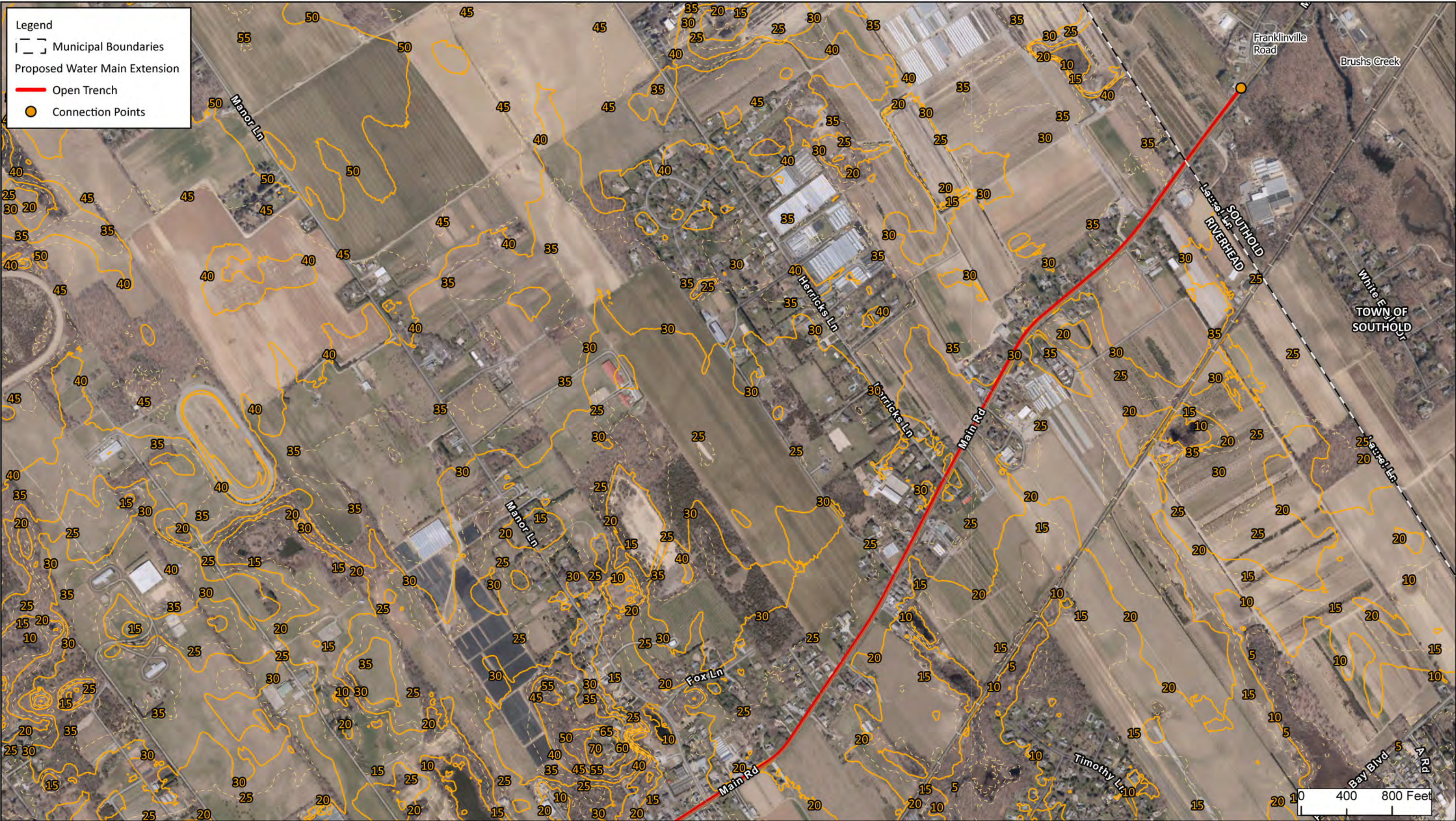
Sources: ESRI WMS, 2023; SCWA, 2025; USGS Long Island LiDAR Collection, 2014
Scale: 1 inch equals 800 feet

FIGURE 5.1-3-C
TOPOGRAPHY MAP



SCWA North Fork
Water Main Project

Preferred Alternative Route



Sources: ESRI WMS, 2023; SCWA, 2025; USGS Long Island LiDAR Collection, 2014
Scale: 1 inch equals 800 feet

FIGURE 5.1-3-D
TOPOGRAPHY MAP



SCWA North Fork
Water Main Project
Preferred Alternative Route

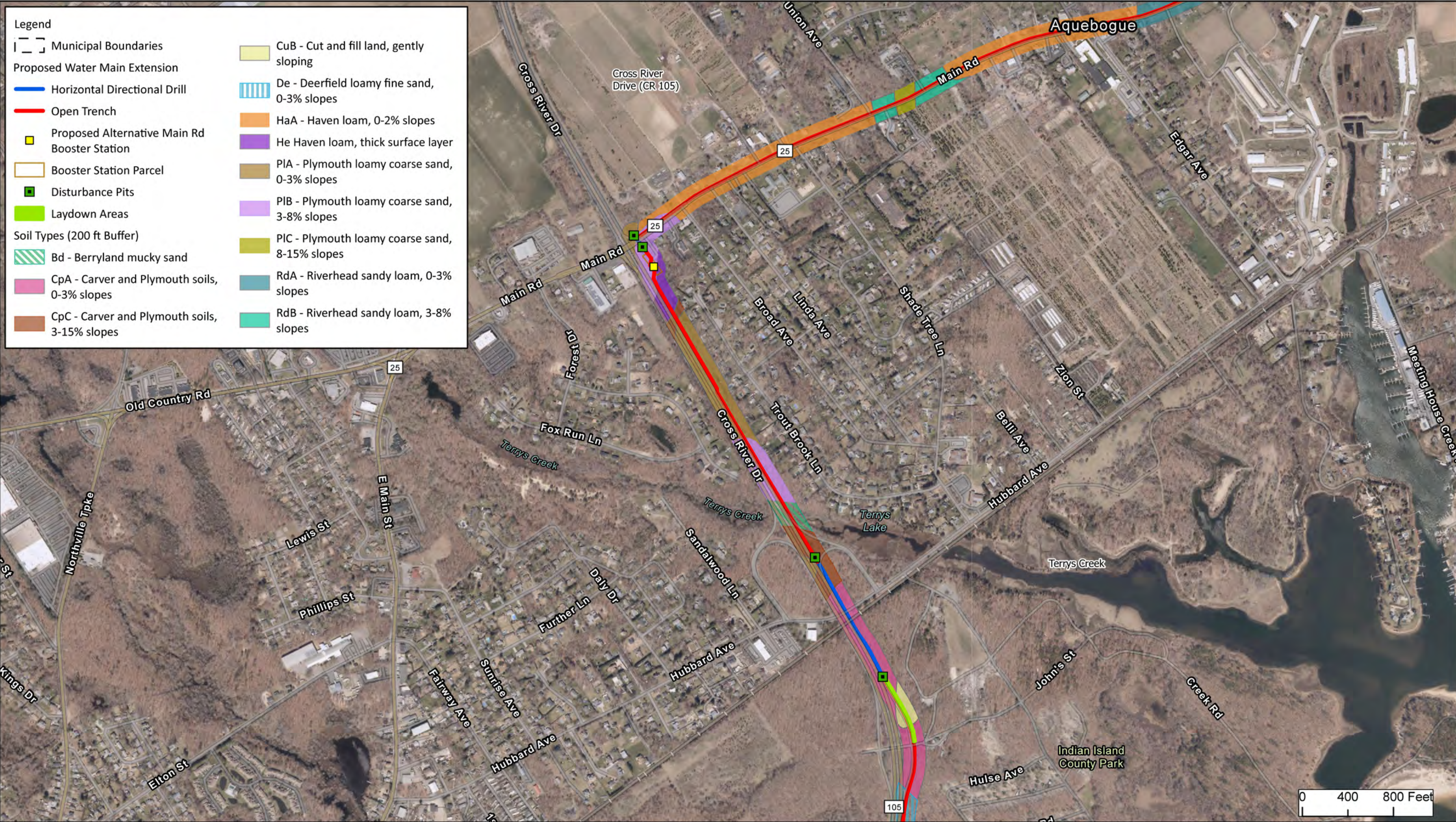


Sources: ESRI WMS, 2023; SCWA, 2025; USDA, 2025
Scale: 1 inch equals 800 feet

FIGURE 5.1-4-A
SOILS MAP



SCWA North Fork
Water Main Project
Preferred Alternative Route

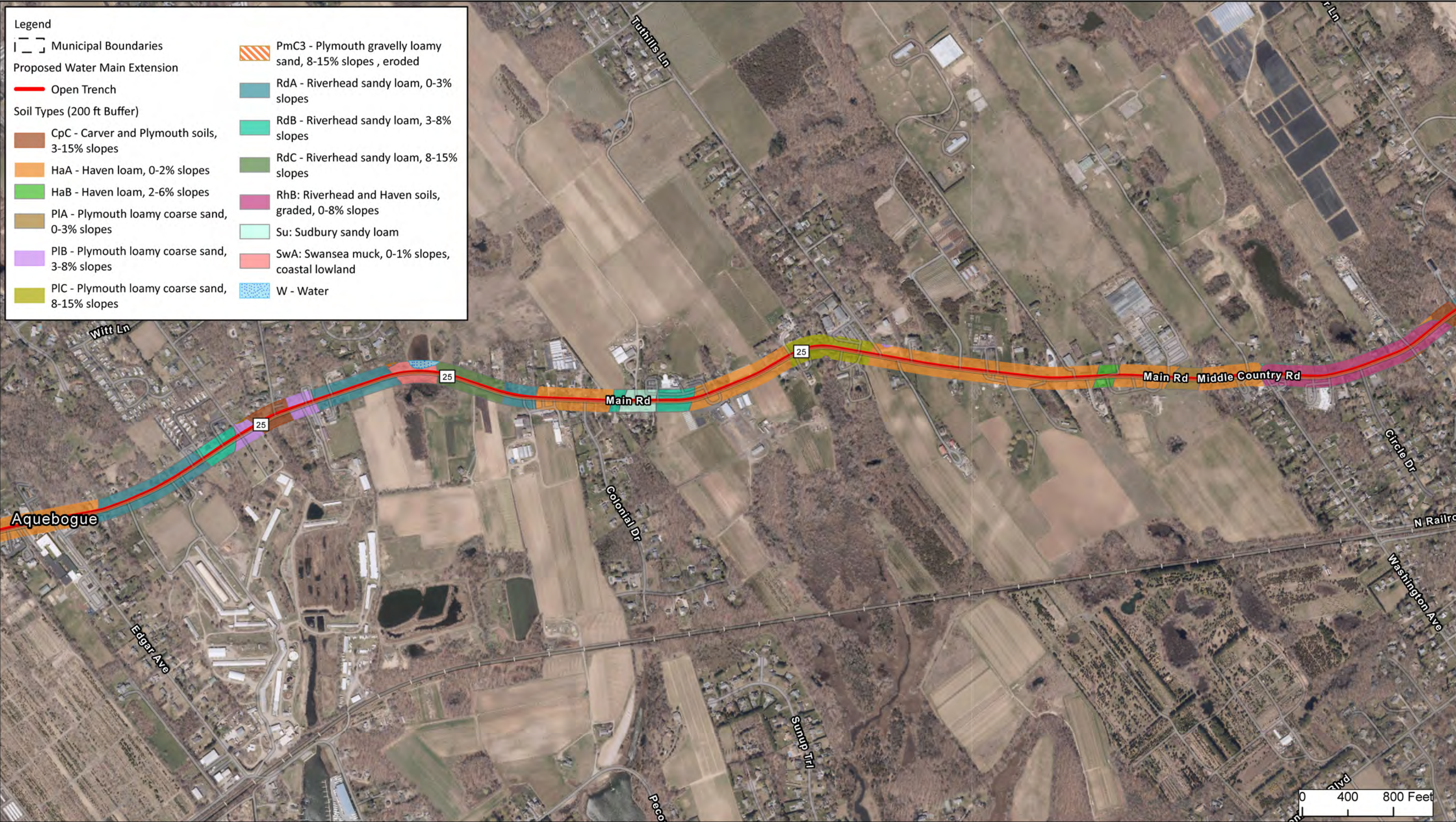


Sources: ESRI WMS, 2023; SCWA, 2025; USDA, 2025
Scale: 1 inch equals 800 feet

**FIGURE 5.1-4-B
SOILS MAP**



SCWA North Fork
Water Main Project
Preferred Alternative Route



Legend

Municipal Boundaries

Proposed Water Main Extension

Open Trench

Connection Points

Soil Types (200 ft Buffer)

HaA - Haven loam, 0-2% slopes

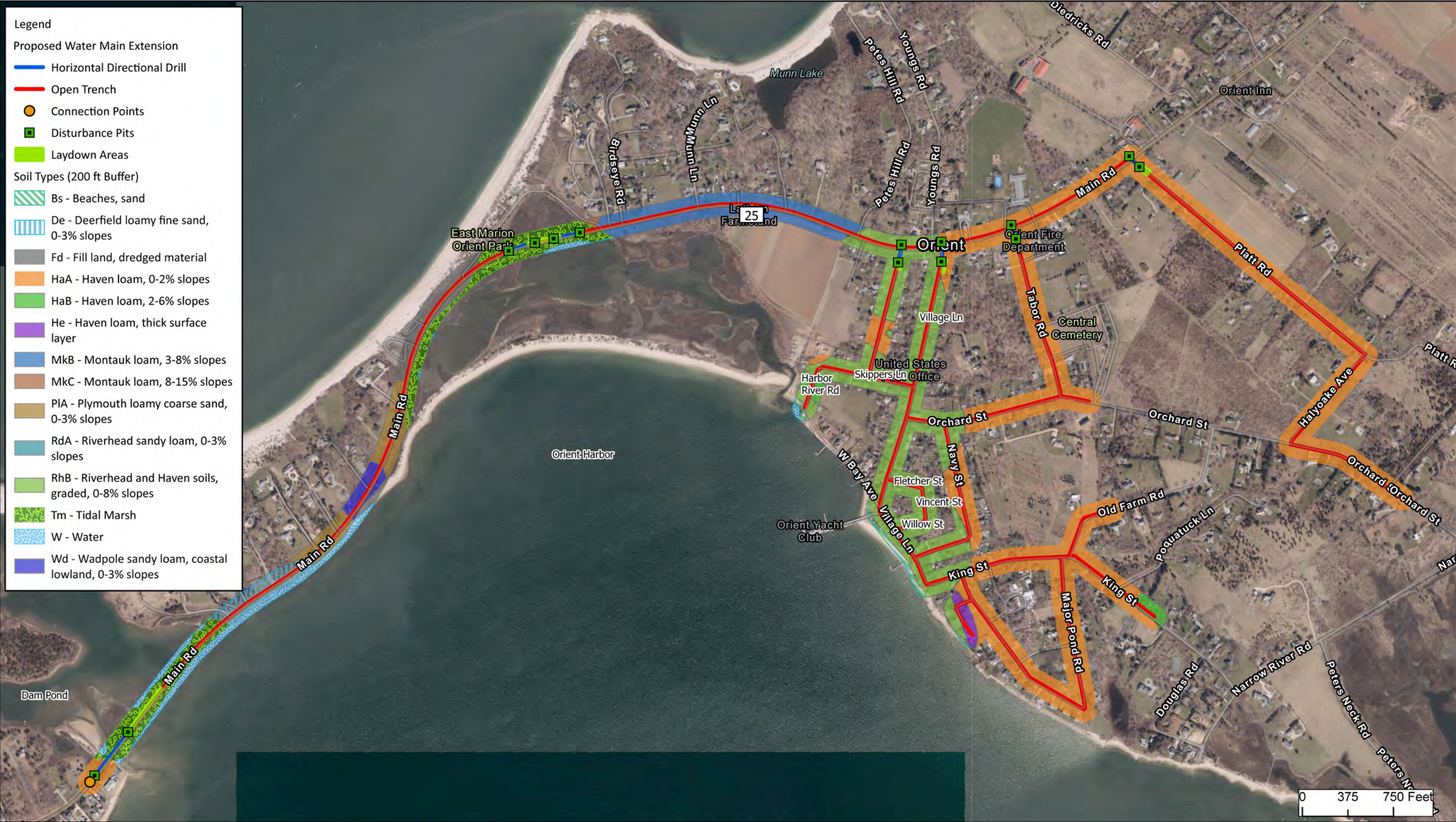
HaB - Haven loam, 2-6% slopes

PmC3 - Plymouth gravelly loamy sand, 8-15% slopes , eroded

RdA - Riverhead sandy loam, 0-3% slopes

RdB - Riverhead sandy loam, 3-8% slopes





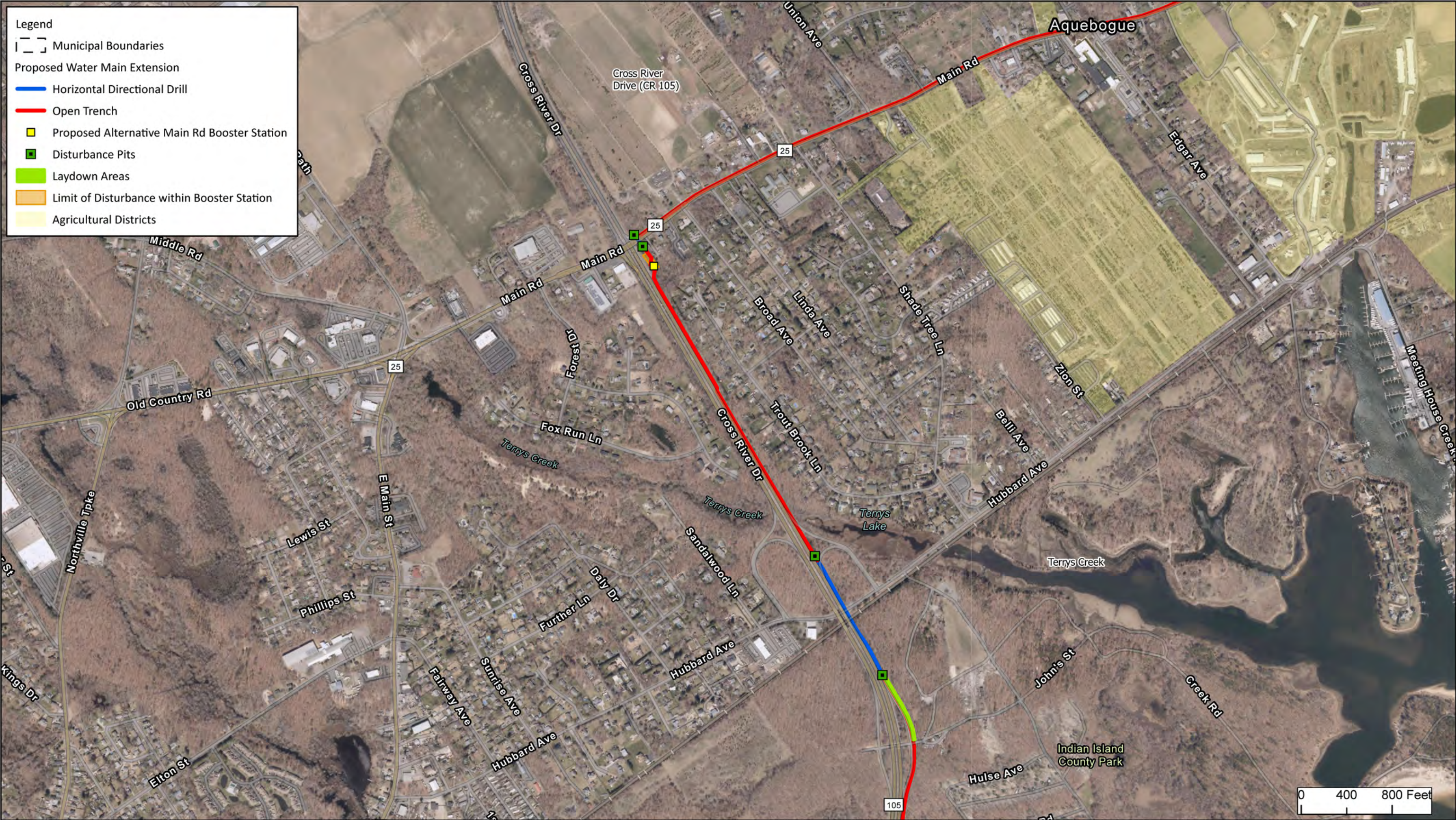


FIGURE 5.1-5-B
NYS AGRICULTURAL DISTRICTS MAP



Sources: ESRI WMS, 2023; SCWA, 2025; NYS Department of Agriculture and Markets, 2022
Scale: 1 inch equals 800 feet



SCWA North Fork
Water Main Project
Preferred Alternative Route



Sources: ESRI WMS, 2023; SCWA, 2025; NYS Department of Agriculture and Markets, 2022
Scale: 1 inch equals 800 feet

FIGURE 5.1-5-C
NYS AGRICULTURAL DISTRICTS MAP



SCWA North Fork
Water Main Project
Preferred Alternative Route





FIGURE 5.1-5-E
NYS AGRICULTURAL DISTRICTS MAP

Sources: ESRI WMS, 2023; SCWA, 2025; NYS Department of Agriculture and Markets, 2022
Scale: 1 inch equals 750 feet



SCWA North Fork
Water Mains Project
E. Marion to Orient



FIGURE 5.1-6-A
NYS DEC WETLANDS MAP



Sources: ESRI WMS, 2023; SCWA, 2025; NYS DEC, 2016
Scale: 1 inch equals 800 feet



SCWA North Fork
Water Main Project

Preferred Alternative Route



Sources: ESRI WMS, 2023; SCWA, 2025; NYS DEC, 2016
Scale: 1 inch equals 800 feet

FIGURE 5.1-6-C
NYS DEC WETLANDS MAP



SCWA North Fork
Water Main Project
Preferred Alternative Route





FIGURE 5.1-7-B
NATIONAL WETLAND INVENTORY MAP



Sources: ESRI WMS, 2023; SCWA, 2025; USFWS 2021
Scale: 1 inch equals 800 feet



SCWA North Fork
Water Main Project

Preferred Alternative Route



Legend

Proposed Water Main Extension

- Horizontal Directional Drill
- Open Trench
- Connection Points
- Disturbance Pits
- Laydown Areas

National Wetland Inventory Categories

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Pond
- Other
- Riverine





FIGURE 5.1-8-A
CRITICAL ENVIRONMENTAL AREAS MAP



Sources: ESRI WMS, 2023; SCWA, 2025; USDA, 2025
Scale: 1 inch equals 800 feet



SCWA North Fork
Water Main Project
Preferred Alternative Route

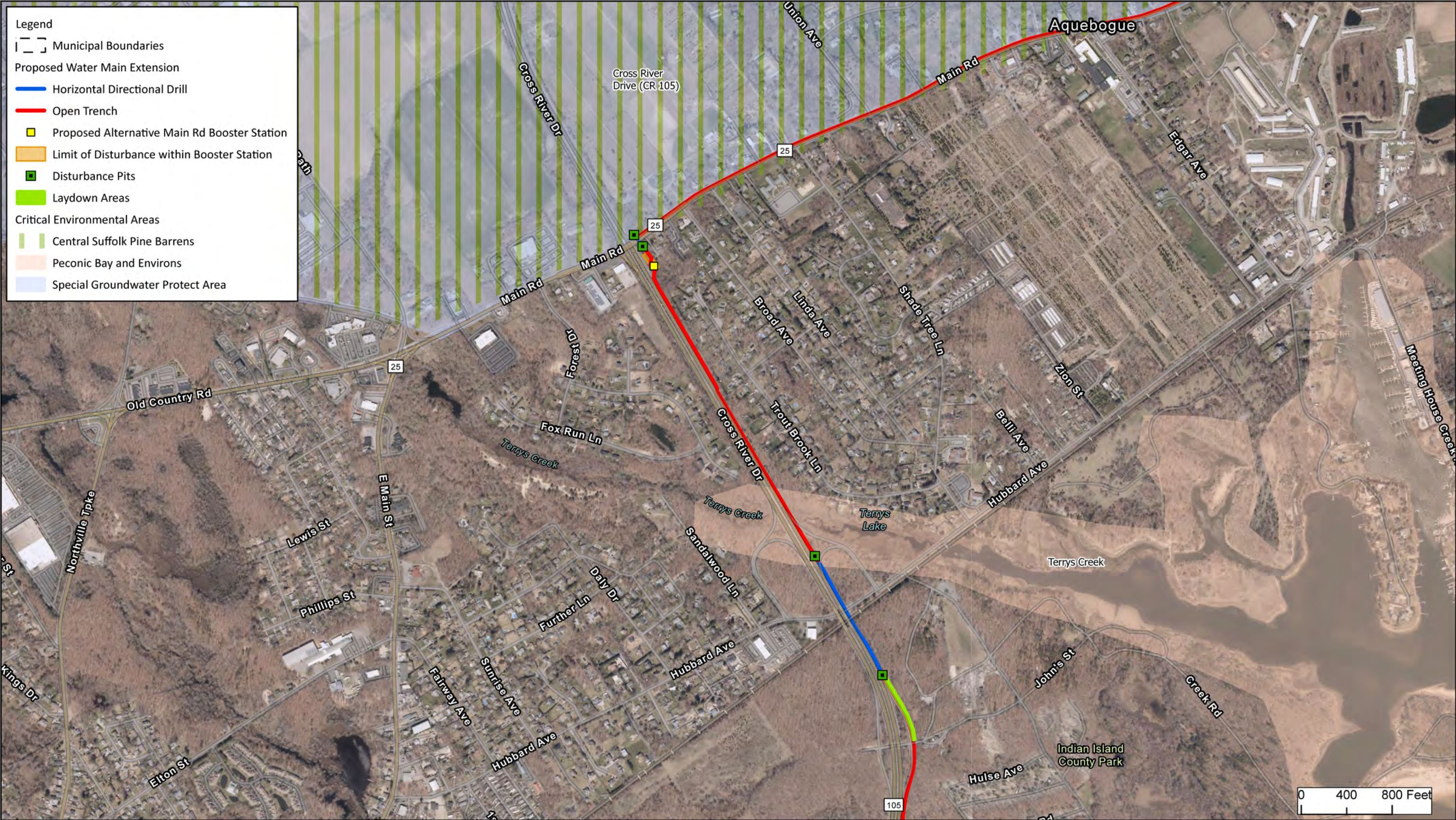


FIGURE 5.1-8-B
CRITICAL ENVIRONMENTAL AREAS MAP



Sources: ESRI WMS, 2023; SCWA, 2025; USDA, 2025
Scale: 1 inch equals 800 feet



SCWA North Fork
Water Main Project
Preferred Alternative Route



FIGURE 5.1-8-C
CRITICAL ENVIRONMENTAL AREAS MAP



Sources: ESRI WMS, 2023; SCWA, 2025; USDA, 2025
Scale: 1 inch equals 800 feet



SCWA North Fork
Water Main Project
Preferred Alternative Route

Legend

Municipal Boundaries

Proposed Water Main Extension

Open Trench

Connection Points

Critical Environmental Areas

Brushs Creek

Central Suffolk Pine Barrens

Peconic Bay and Environs

Special Groundwater Protect Area



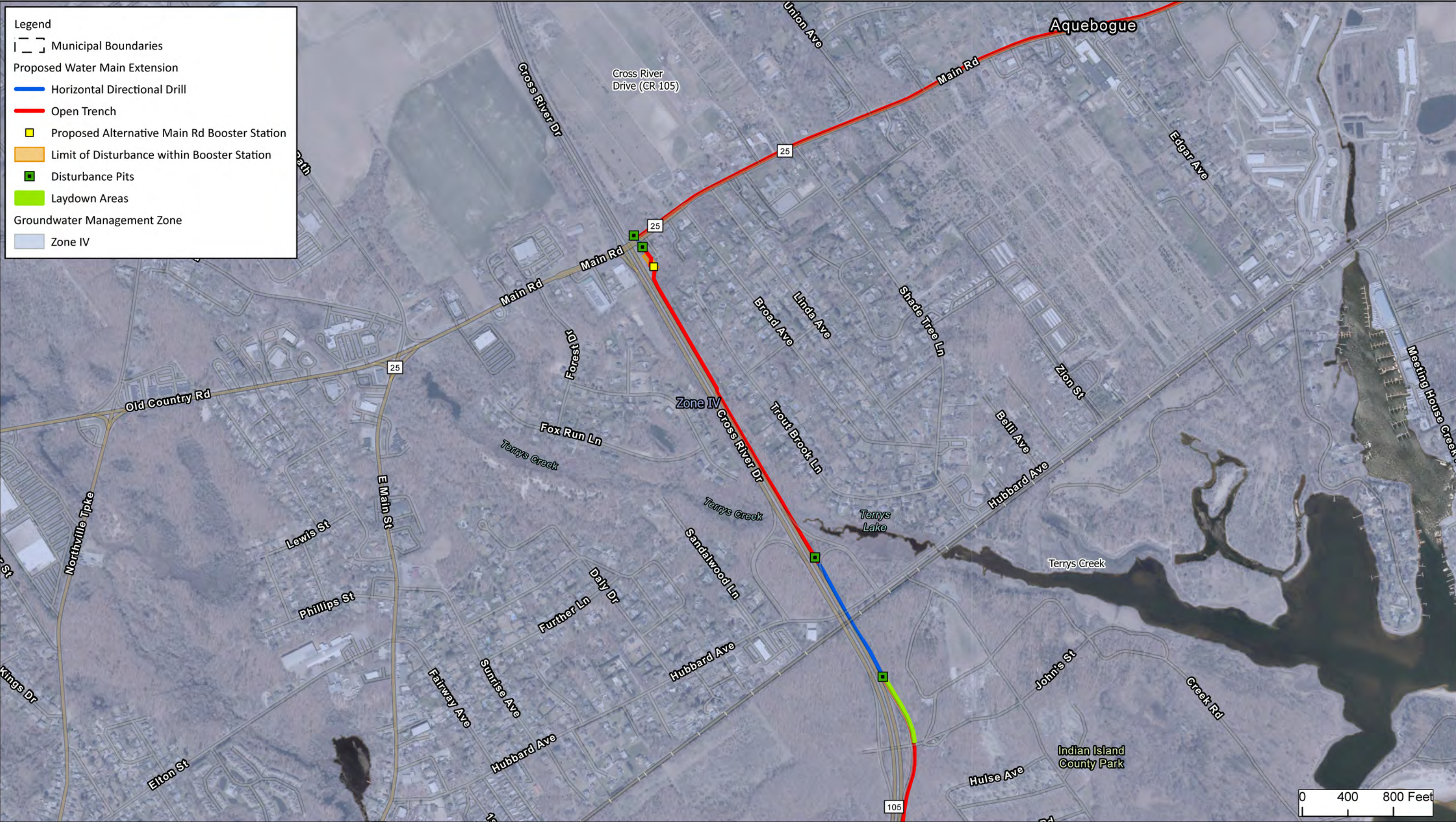


FIGURE 5.1-9-B
SUFFOLK COUNTY GROUNDWATER MANAGEMENT ZONE MAP



Sources: ESRI WMS, 2023; SCWA, 2025
Scale: 1 inch equals 800 feet



SCWA North Fork
Water Main Project

Preferred Alternative Route



Sources: ESRI WMS, 2023; SCWA, 2025
Scale: 1 inch equals 800 feet

FIGURE 5.1-9-C
SUFFOLK COUNTY GROUNDWATER MANAGEMENT ZONE MAP



SCWA North Fork
Water Main Project

Preferred Alternative Route



Sources: ESRI WMS, 2023; SCWA, 2025
Scale: 1 inch equals 800 feet

FIGURE 5.1-9-D
SUFFOLK COUNTY GROUNDWATER MANAGEMENT ZONE MAP



SCWA North Fork
Water Main Project
Preferred Alternative Route



FIGURE 5.1-9-E
SUFFOLK COUNTY GROUNDWATER MANAGEMENT ZONE MAP



Sources: ESRI WMS, 2023; SCWA, 2025
Scale: 1 inch equals 750 feet



SCWA North Fork
Water Mains Project

E. Marion to Orient

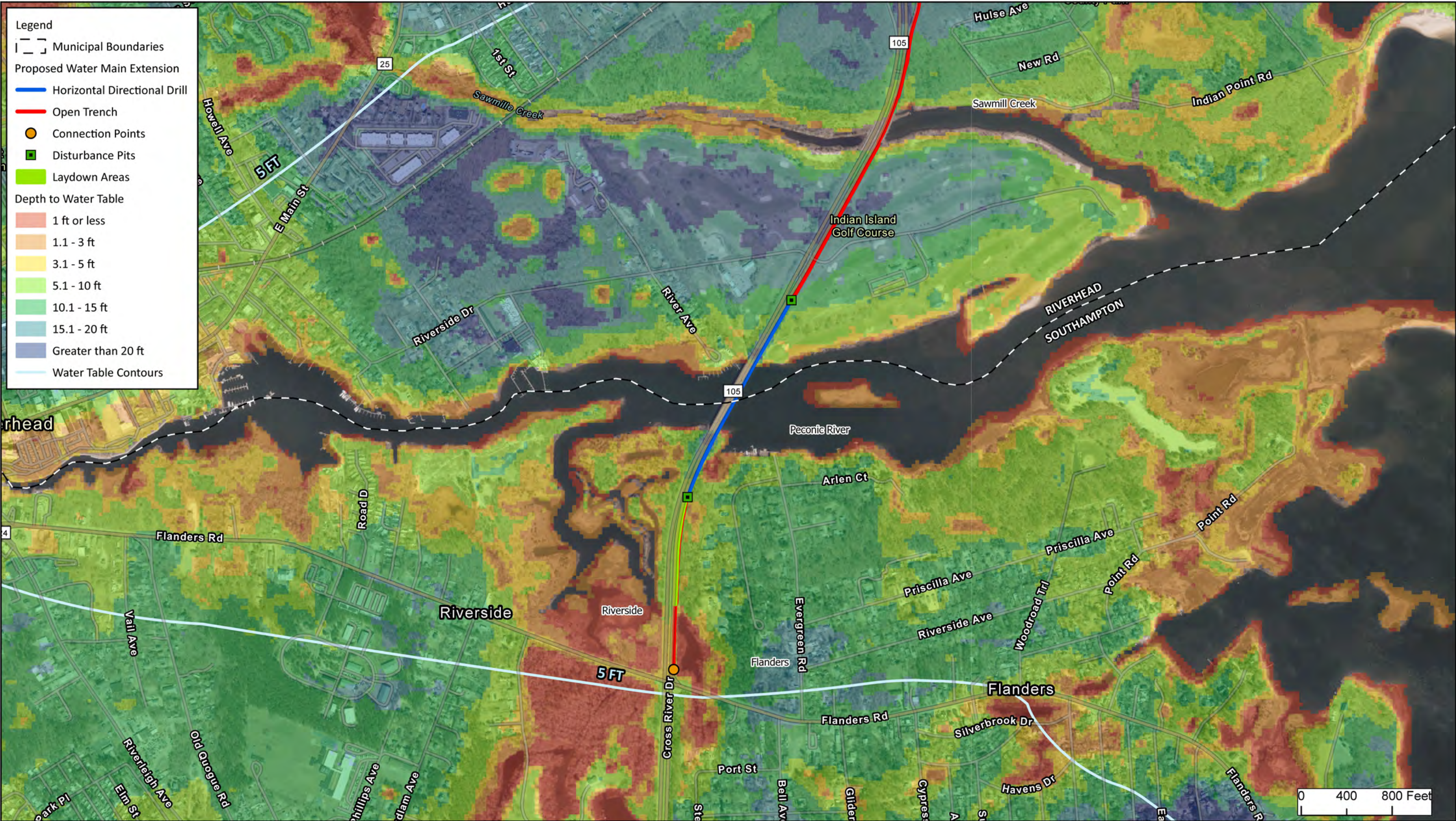


FIGURE 5.1-10-A
GROUNDWATER CONTOUR AND DEPTH TO GROUNDWATER MAP



Sources: ESRI WMS, 2023; SCWA, 2025; USGS, 2010; USGS, 2016
Scale: 1 inch equals 800 feet



SCWA North Fork
Water Main Project
Preferred Alternative Route

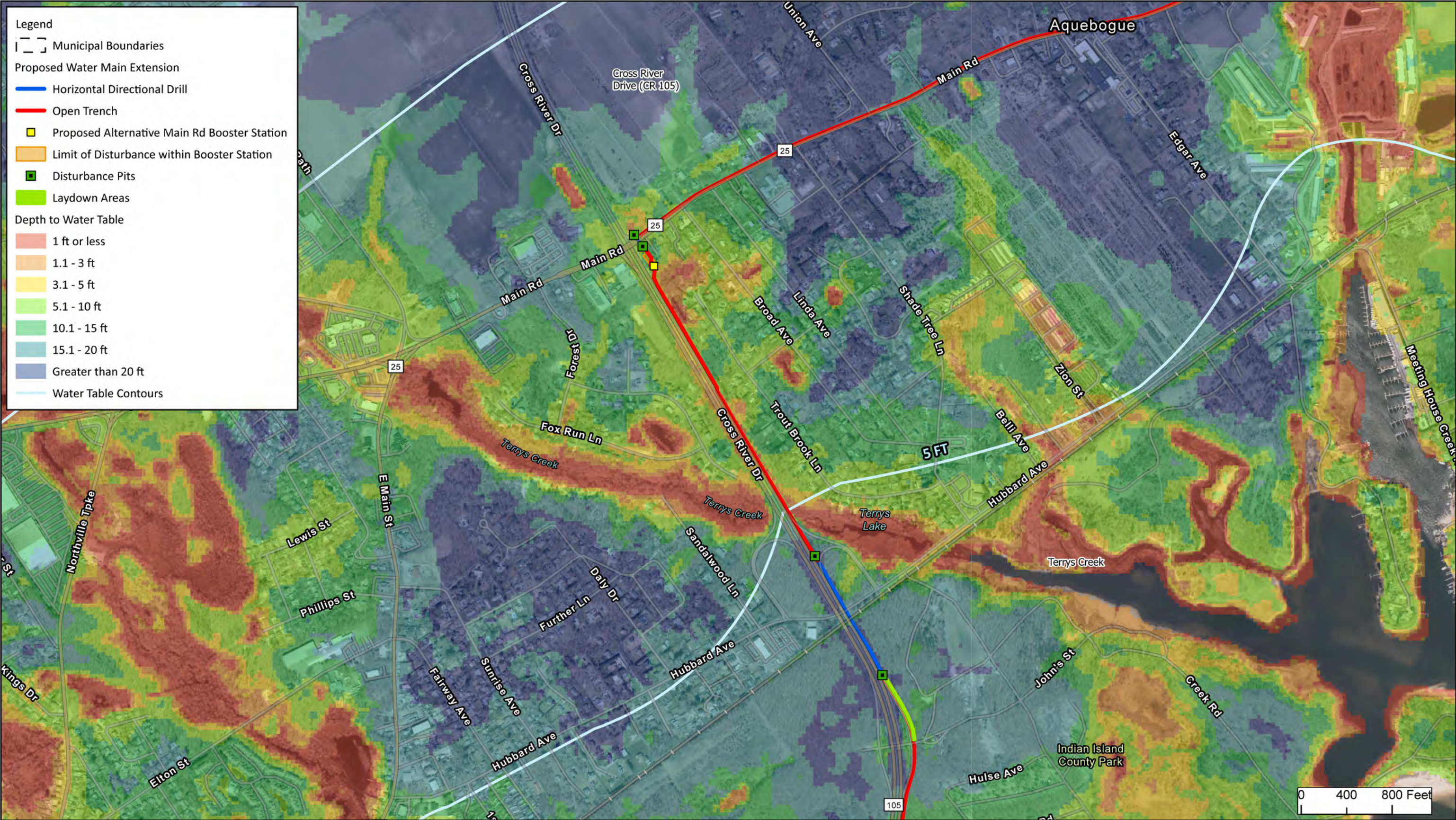


FIGURE 5.1-10-B
GROUNDWATER CONTOUR AND DEPTH TO GROUNDWATER MAP

Sources: ESRI WMS, 2023; SCWA, 2025; USGS, 2010; USGS, 2016
Scale: 1 inch equals 800 feet

SCWA North Fork
Water Main Project
Preferred Alternative Route



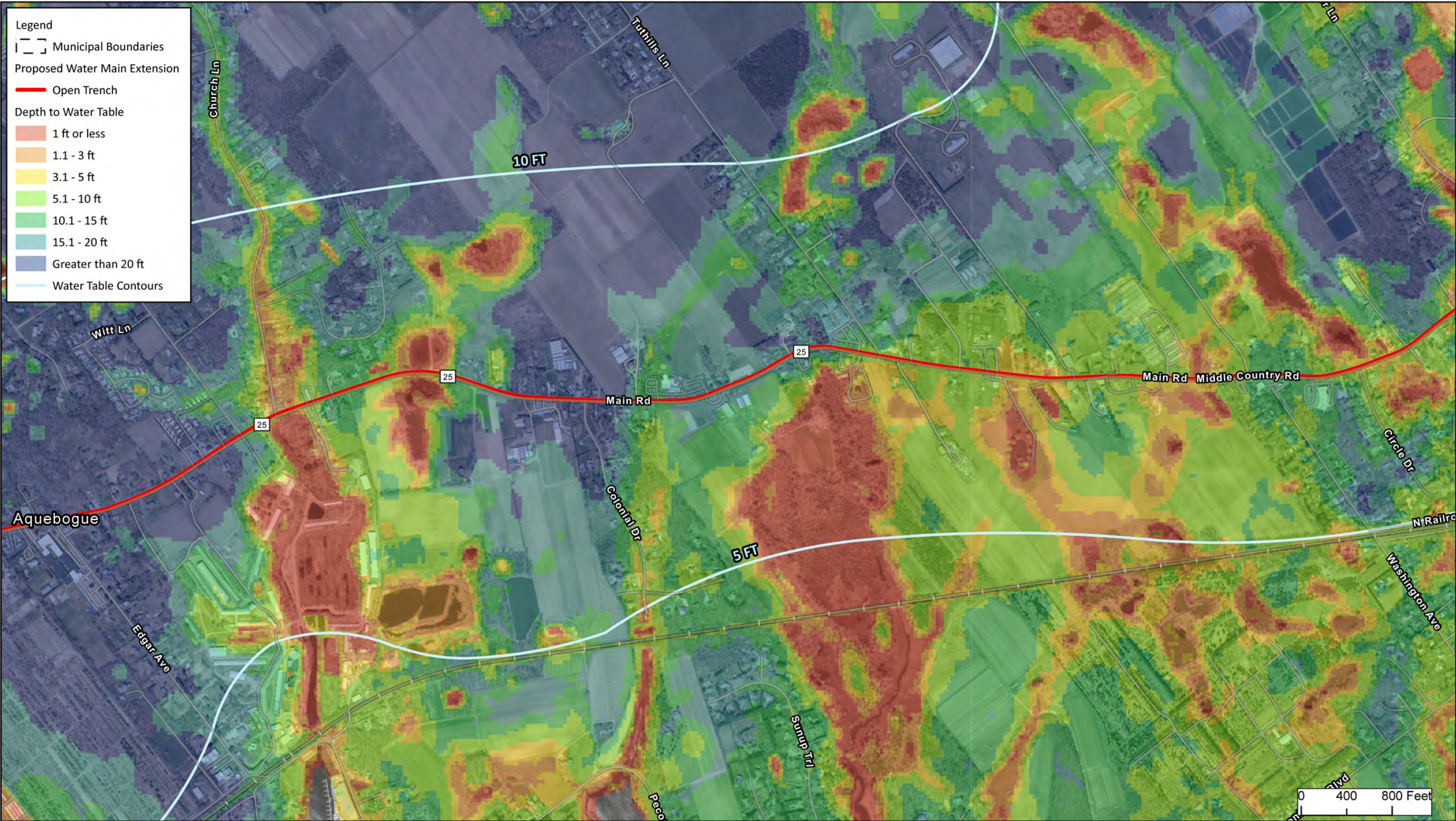


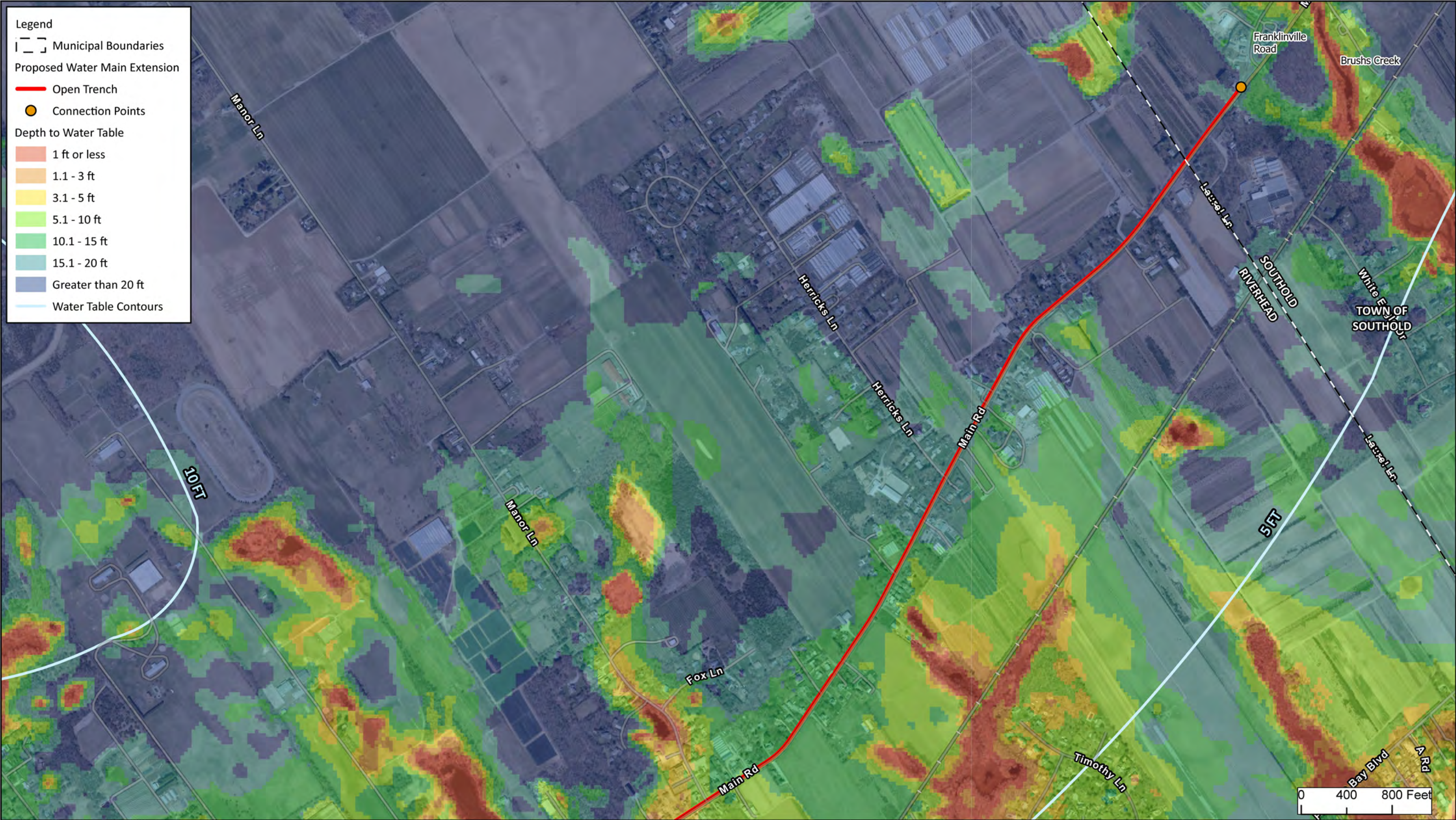
FIGURE 5.1-10-C
GROUNDWATER CONTOUR AND DEPTH TO GROUNDWATER MAP



Sources: ESRI WMS, 2023; SCWA, 2025; USGS, 2010; USGS, 2016
Scale: 1 inch equals 800 feet



SCWA North Fork
Water Main Project
Preferred Alternative Route



Legend

Municipal Boundaries

Proposed Water Main Extension

Open Trench

Connection Points

Depth to Water Table

1 ft or less

1.1 - 3 ft

3.1 - 5 ft

5.1 - 10 ft

10.1 - 15 ft

15.1 - 20 ft

Greater than 20 ft

Water Table Contours

FIGURE 5.1-10-D
GROUNDWATER CONTOUR AND DEPTH TO GROUNDWATER MAP

Sources: ESRI WMS, 2023; SCWA, 2025; USGS, 2010; USGS, 2016
Scale: 1 inch equals 800 feet

SCWA North Fork
Water Main Project

Preferred Alternative Route





Sources: ESRI WMS, 2023; SCWA, 2025; USDA, 2025
Scale: 1 inch equals 800 feet

FIGURE 5.1-11-A
ECOLOGICAL RESOURCES MAP



SCWA North Fork
Water Main Project

Preferred Alternative Route



Sources: ESRI WMS, 2023; SCWA, 2025; USDA, 2025
Scale: 1 inch equals 800 feet

FIGURE 5.1-11-C
ECOLOGICAL RESOURCES MAP



SCWA North Fork
Water Main Project

Preferred Alternative Route



**FIGURE 5.1-11-D
ECOLOGICAL RESOURCES MAP**





FIGURE 5.1-12-A
EXISTING LAND USE MAP



Sources: ESRI WMS, 2023; SCWA, 2025
Scale: 1 inch equals 800 feet

SCWA North Fork
Water Main Project
Preferred Alternative Route





Legend

Municipal Boundaries

Proposed Water Main Extension

Open Trench

Connection Points

Land Use

Agriculture

Single Family Residential

Two Family Residential

Three Family Residential

Vacant Land

Commercial

Outdoor Recreation, Parks & Conservation Lands

Community Services

Public Services



FIGURE 5.1-12-D
 EXISTING LAND USE MAP

Legend

Proposed Water Main Extension

- Horizontal Directional Drill
- Open Trench
- Connection Points
- Disturbance Pits
- Laydown Areas

Land Use

- Agriculture
- Single Family Residential
- Two Family Residential
- Three Family Residential
- Vacant Land
- Apartments
- Commercial
- Indoor Recreation & Entertainment
- Outdoor Recreation, Parks & Conservation Lands
- Community Services
- Public Services



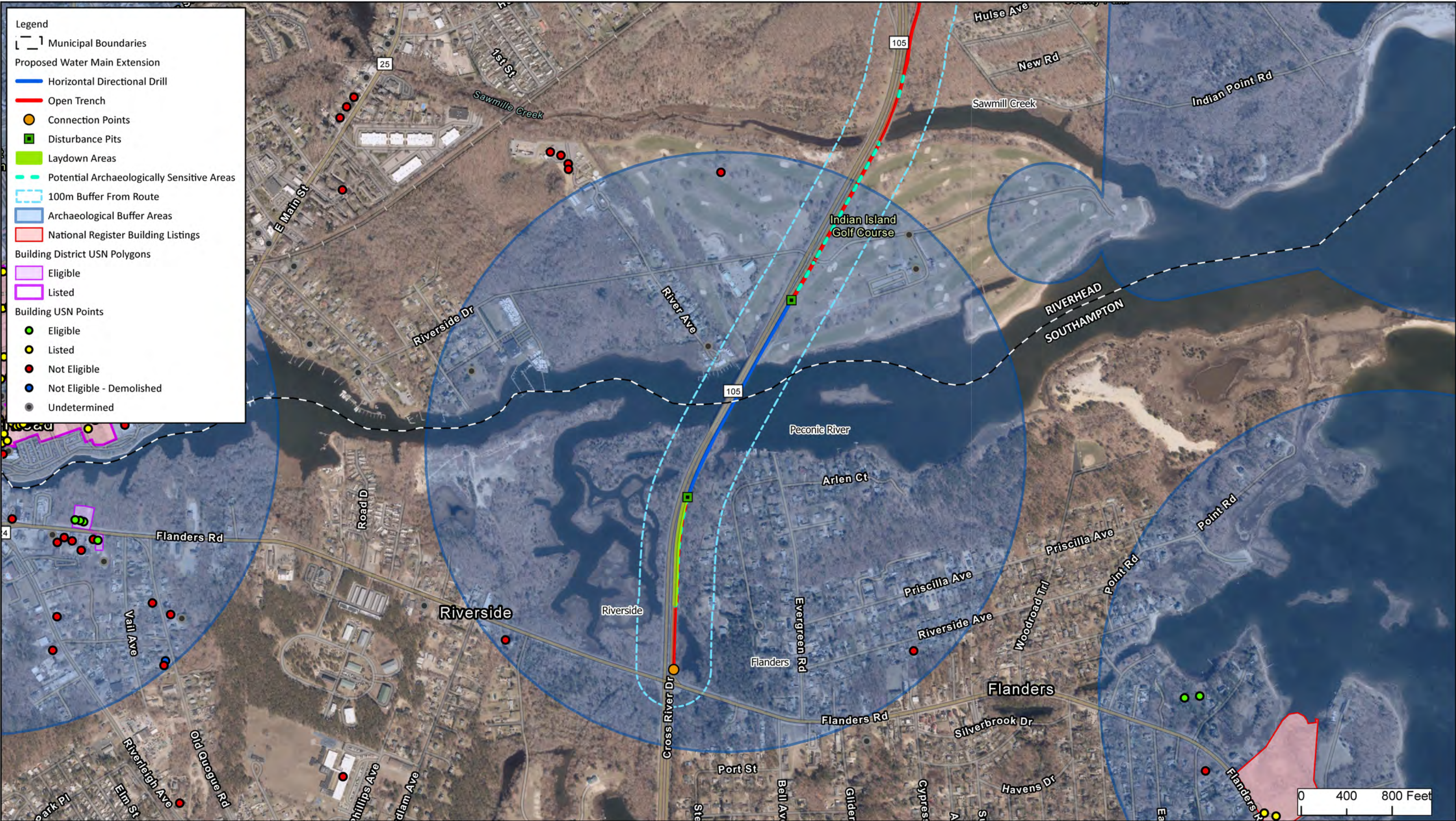


FIGURE 5.1-13-A
HISTORIC & ARCHAEOLOGICAL RESOURCES MAP



Sources: ESRI WMS, 2023; SCWA, 2025; NYS Office of Parks, Recreation & Historic Preservation, 2025
Scale: 1 inch equals 800 feet



SCWA North Fork
Water Main Project
Preferred Alternative Route

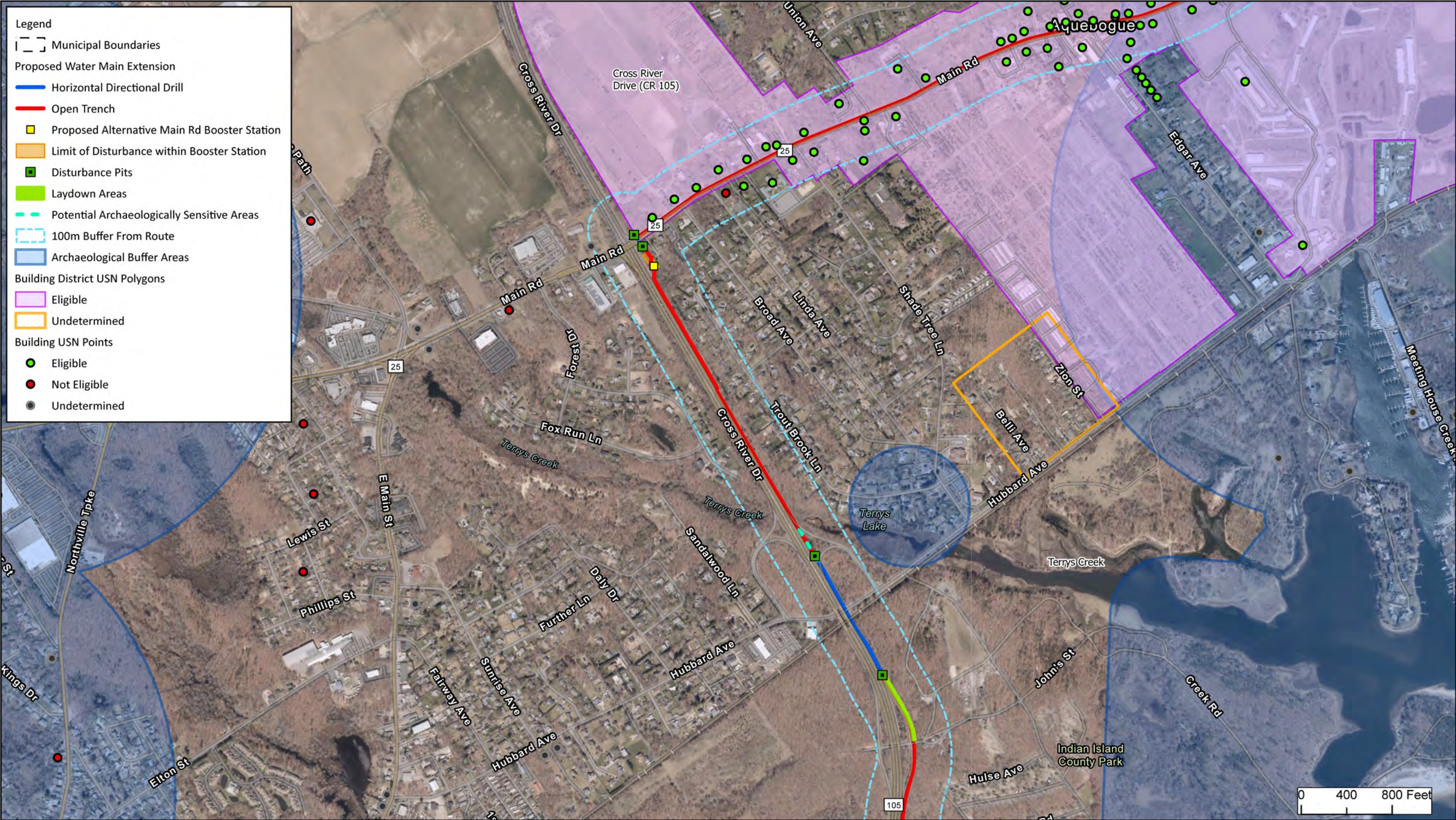


FIGURE 5.1-13-B
HISTORIC & ARCHAEOLOGICAL RESOURCES MAP

Sources: ESRI WMS, 2023; SCWA, 2025; NYS Office of Parks, Recreation & Historic Preservation, 2025
Scale: 1 inch equals 800 feet

SCWA North Fork
Water Main Project
Preferred Alternative Route



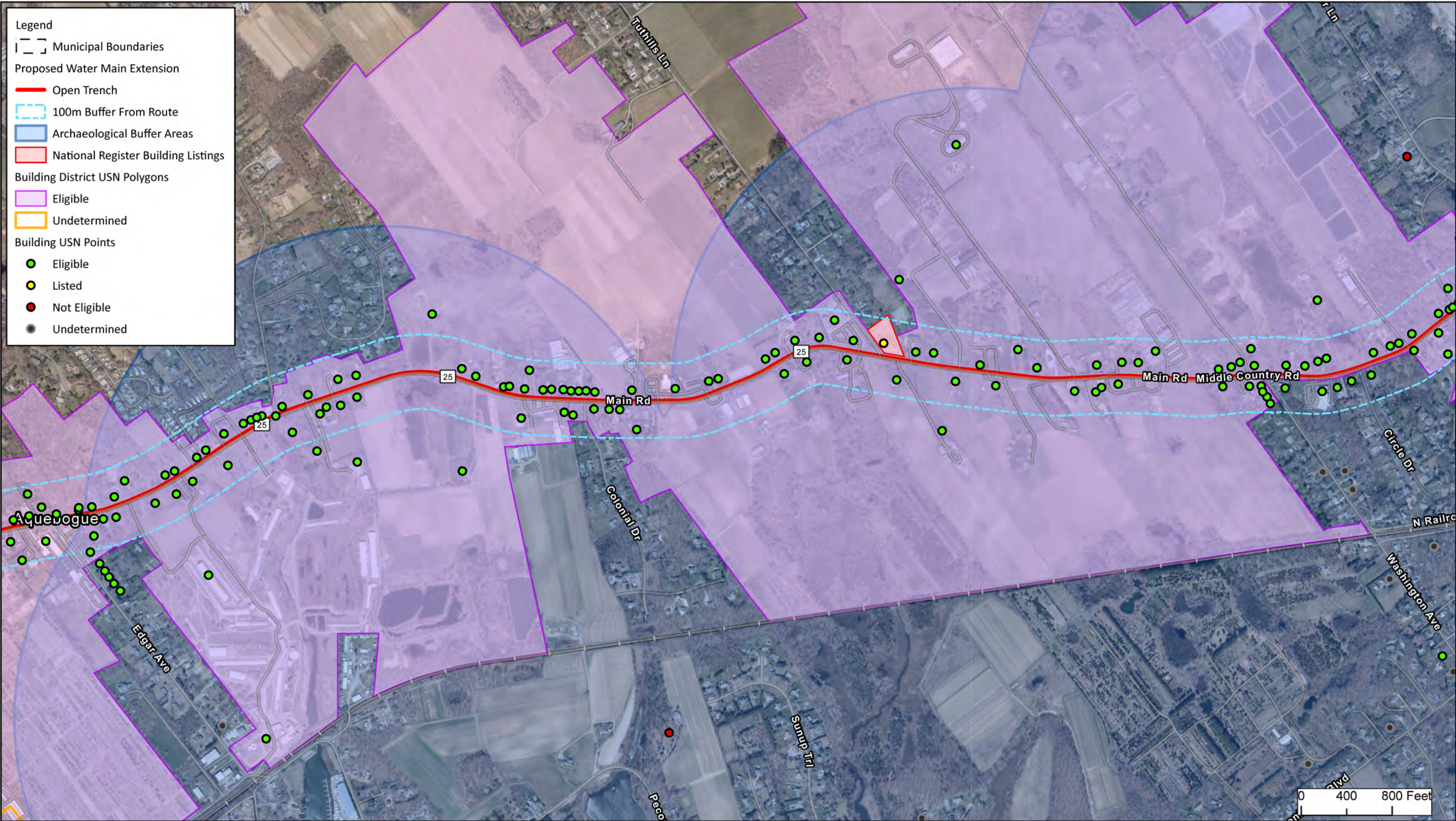


FIGURE 5.1-13-C
HISTORIC & ARCHAEOLOGICAL RESOURCES MAP



Sources: ESRI WMS, 2023; SCWA, 2025; NYS Office of Parks, Recreation & Historic Preservation, 2025
Scale: 1 inch equals 800 feet



SCWA North Fork
Water Main Project
Preferred Alternative Route

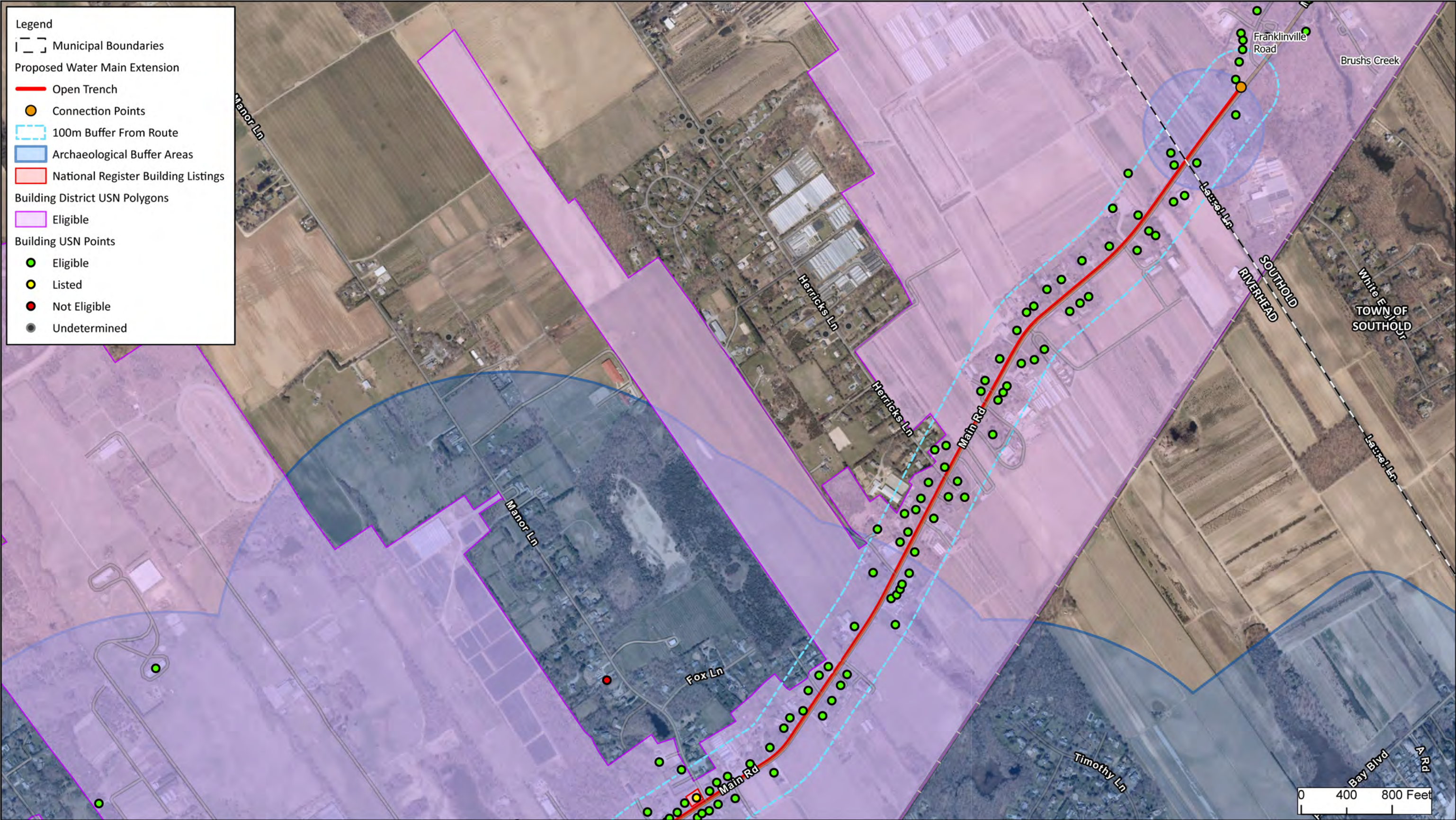


FIGURE 5.1-13-D
HISTORIC & ARCHAEOLOGICAL RESOURCES MAP



Sources: ESRI WMS, 2023; SCWA, 2025; NYS Office of Parks, Recreation & Historic Preservation, 2025
Scale: 1 inch equals 800 feet



SCWA North Fork
Water Main Project
Preferred Alternative Route



FIGURE 5.1-13-E
HISTORIC & ARCHAEOLOGICAL RESOURCES MAP



Sources: ESRI WMS, 2023; SCWA, 2025; NYS Office of Parks, Recreation & Historic Preservation, 2025
Scale: 1 inch equals 750 feet



SCWA North Fork
Water Mains Project

E. Marion to Orient