



Full Environmental Assessment Form Part 1
North Salem Central School District
Athletic Fields Improvement Project
North Salem
Westchester County, New York

Issued: January 30, 2020

Prepared for:

*North Salem Central School District
Board of Education
230 June Road
North Salem, NY 10560*

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Chazen Project No. 318AJ.03

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PROJECT NARRATIVE

1.0 PROJECT DESCRIPTION

The North Salem School District (“District”) is proposing improvements to its North Salem Middle-High School campus located at 230 June Road in the Town of North Salem, Westchester County, New York (see Figure 1). The proposed improvements will include the construction of a new athletic field west of the school and a new bathroom addition on the existing school building, in addition to installing a new drainage system at Tompkins Field (these collectively are considered “proposed project”).

The new athletic field will be used for lacrosse, soccer, field hockey, and baseball/softball practice, will measure approximately 230 feet by 390 feet, and will be constructed of synthetic turf with an underdrain system. Site improvements will also include a press box and bleacher seating for up to 300 spectators, a concrete pad for food truck and table seating, LED field lighting, a four-foot-tall perimeter fence, 20-foot-tall ball stop netting, an eight-foot-wide ADA compliant pedestrian access path with pole lighting connecting the field to the existing parking lot to the south, a 12-foot-wide vehicular/maintenance path connecting the field to the existing school yard, and a stormwater management basin to be constructed to the north of the proposed athletic field, at the location of the school's abandoned tennis courts (refer to Attachment C). The new bathroom addition will be constructed adjacent to the existing basketball courts, will be internally and externally accessible, will measure approximately 670 SF, and will include four gender neutral stalls. The Tompkins Field drainage system will consist of strip drains installed in a herringbone pattern within the existing field (refer to Attachment C). Total site disturbance for the new athletic field, new bathroom addition, and new drainage system is estimated at approximately 5.0 acres, including 4.6 acres of permanent disturbance.

The school site consists of two tax parcels identified on the Town of North Salem Tax Map as parcels 5-1735-50 (approximately 65.6 acres) and 5-1735-22 (approximately 3.6 acres), which comprise a combined approximately 69.2 acres (see Figure 2). The existing facility has an enrollment of 279 middle school students and 379 high school students for the 2017-2018 school year and employs 86 staff persons. While the proposed project will only involve site disturbance totaling an estimated approximately 5.0 acres (as noted above), for purposes of this Part 1 Full Environmental Assessment Form (FEAF), the “project area” is defined as the approximately 69.2-acre North Salem Middle-High School campus that is the subject of the proposed improvements. Site specific impacts related to water resources are assessed for the proposed area of disturbance (the “project site”).

2.0 PLANNING AND ZONING

2.1 Town of North Salem Comprehensive Plan

The 2011 North Salem Comprehensive Plan refers to the North Salem School District under sections 8.4, Needs and Major Recommendations and Strategies, and 9.1.1, Educational Facilities. The plan recommends that the Town support the expansion of recreational facilities and seek opportunities in shared services with the school (Section 9.1.7), in addition to advising that the Town create strategies to better manage the school traffic demand. The proposed project consists of the construction of a new athletic field and a new bathroom expansion, in addition to a new drainage system for the existing Tompkins Field. As discussed in Section 5.0, “Traffic,” below, impacts related to temporary traffic generated by athletic events are not expected to be significant and are not expected to occur during peak weekday or weekend traffic periods. Therefore, the proposed project would be consistent with the Town of North Salem Comprehensive Plan.

2.2 Watershed Plans

The North Salem School District parcel is located within the NYC Watershed Boundary and the Croton River Watershed. The Town of North Salem is mentioned in both the *Stormwater Reconnaissance Plan for the Croton River and Inland Long Island Sound Watershed* and *The Croton Plan for Westchester: The Comprehensive Croton Watershed Water Quality Protection Plan (The Croton Plan)*. The Croton Plan recommends that public schools, such as the North Salem School District, could support the health of the watershed by developing pollution prevention plans (Recommendation 43: Public Land Management). There are no mentions or recommendations for the project area within these plans. Therefore, the proposed project would not result in significant impacts related to watershed plans.

2.3 Open Space and Farmland Protection Plans

The Town of North Salem is noted in the 2009 *North Salem Open Space Plan* and the 2004 *Westchester County Agriculture and Farmland Protection Plan*. There are no specific recommendations for the project area within these documents and the project area is not within an agricultural district. Therefore, the proposed project would not result in significant impacts related to open space and farmland protection plans.

2.3 Zoning

The project area is located within a Rural Density Residential (R-4) zoning district. Per the North Salem Zoning Code, uses permitted as-of-right in R-4 districts include: the raising of field and garden crops and vineyards and orchard farming; keeping, breeding, and raising of up to 25 cattle, sheep, and goats; keeping, breeding, and raising of up to three pigs; keeping, breeding, and raising up to 25 fowl; keeping, breeding, and raising up to 25 rabbits, foxes, mink, and other fur-bearing animals; fire or ambulance stations; uses of the Town of North Salem; public schools; and single-family detached dwellings. As the proposed project consists of uses associated with the existing North Salem Middle-High School campus (a public school), it is a permitted use and is consistent with the Town's zoning.

3.0 SOIL AND WATER RESOURCES

3.1 Soils

Figure 4 shows the soil types that are expected to be present within the project area according to Westchester County Soil Survey information available in GIS. Table 3-1 provides characteristics of the soil types within the area of disturbance (e.g. project site), according to the Natural Resource Conservation Service website.

Total temporary ground disturbance is estimated to be approximately 5.0 acres, and permanent ground disturbance is estimated at 4.6 acres. Bedrock is expected to be encountered during construction activities. Any rock that is encountered will be removed by mechanical methods; no blasting is anticipated. Groundwater encountered during installation will be pumped and discharged in accordance with the Stormwater Pollution Prevention Plan (SWPPP).

Based on this information, the proposed project will not result in any significant adverse impacts related to soils.

Table 3-1: Characteristics of Soil Types within Project Site

| % OF PROJECT SITE | SOIL SYMBOL | SOIL TYPE | SLOPES | DRAINAGE | DEPTH TO WATER TABLE (INCHES) | DEPTH TO BEDROCK (INCHES) |
|-------------------|-------------|----------------------------|------------------|-------------------------|-------------------------------|---------------------------|
| ~31% | CrC | Charlton-Chatfield Complex | 0 to 15 percent | Well Drained | > 78 inches | > 78 inches |
| ~17% | CsD | Chatfield-Charlton Complex | 15 to 35 percent | Well Drained | > 78 inches | > 78 inches |
| ~16% | ChB | Charlton fine sandy loam | 3 to 8 percent | Well Drained | > 78 inches | > 78 inches |
| ~1% | ChD | Charlton fine sandy loam | 15 to 25 percent | Well Drained | > 78 inches | > 78 inches |
| ~14% | LcB | Leicester loam | 3 to 8 percent | Somewhat poorly drained | 11.8 inches | > 78 inches |
| ~20% | NcA | Natchaug muck | 0 to 2 percent | Very poorly drained | 0 inches | > 78 inches |

3.2 Water Resources

3.2.1 Surface Water

According to NYSDEC Wetland and Stream mapping available through GIS (Figure 3), the EAF Mapper, and Environmental Resource Map (Figure 6):

- There are no mapped NYSDEC regulated streams within the project site. A NYSDEC-mapped Class C, Standard C (864-294) non-regulated stream is located southwest of the proposed athletic field, within the greater North Salem Middle-High School Campus (e.g., project area), as shown in Figures 3 and 6.
- There are no NYSDEC regulated wetlands mapped within the project site. A NYSDEC-mapped wetland (Wetland ID L-32, Class 2) is located southwest of the proposed athletic field, within the greater North Salem Middle-High School Campus (e.g., project area), and the 500-foot check zone for the mapped wetland extends into the project site (see Figure 6).
- There are no US Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) mapped wetlands or streams within the project site. There are NWI-mapped wetlands and streams to the west and south of the proposed athletic field, within the greater North Salem Middle-High School Campus (e.g., project area), as shown in Figures 3 and 6.

On October 30th, 2019, the proposed athletic field site was investigated by a Chazen biologist for the presence of wetlands and streams in accordance with the methods in the US Army Corps of Engineers (USACOE) Delineation Manual and the regional supplement to that manual. No wetlands or streams were observed within the proposed athletic field or the remainder of the project site.

As no wetlands or streams were observed within the project site, there are no wetlands or streams under the jurisdiction of the USACOE or NYSDEC. No wetland disturbance is proposed, and no significant adverse impacts on water resources would occur as a result of the proposed project.

4.0 UTILITIES

4.1 Water

The proposed project consists of the construction of a new athletic field and a bathroom addition, in addition to installing a new drainage system at Tompkins Field. As the bathroom addition will be used by existing students and staff of the North Salem Middle-High School, it is not expected to result in a significant increase in water demand. The proposed project will result in a minor increase in water usage for intermittent cleaning/maintenance of the proposed synthetic turf field. This minor additional water demand would be supplied from the private well that currently serves the North Salem Middle-High School. The existing private well has adequate pumping capacity to handle this minor increase in water demand, and no significant adverse impacts on water utilities are anticipated.

4.2 Wastewater

The proposed project will not generate additional wastewater. While the proposed project includes the construction of a new bathroom addition, the bathroom addition will be used by existing students, staff, and sport spectators of the North Salem Middle-High School and, therefore, will not result in an increase in wastewater generation. Plumbing for the addition will connect to internal plumbing systems.

4.3 Stormwater

Construction of the proposed athletic field will require the preparation of a Stormwater Pollution Prevention Plan (SWPPP) and coverage under the State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity (GP-0-20-001). Stormwater runoff from the new artificial turf field will be directed to a stormwater infiltration basin north of the field. The stormwater basin will have an outlet control structure that will control the rate of runoff to match pre-development conditions for discharge to the west through a wooded area that ultimately flows to a stream along the western boundary of the school's property. In addition, there will be a stabilized emergency overflow weir that will discharge to the west. An Erosion and Sediment Control Plan will be provided and shall be employed during the construction phase to protect off-site waters from the adverse effects of sedimentation and erosion.

The proposed drainage system for Tompkins Field will not introduce new point source discharges. The proposed drainage system will convey stormwater to existing outfalls using the existing pipe network.

Therefore, construction and operation of the proposed project are not expected to result in any adverse impacts in regard to stormwater.

4.4 Energy

New energy demand generated by the proposed project will consist of the LED field lighting at the athletic field, seven LED pedestrian scale lights along the proposed path between the field and the parking lot, electricity to serve the proposed press box, score board, and concessions/food truck pad, and electricity to

serve the proposed bathroom expansion. As described below, the combined energy demand from these uses is not expected to be significant.

A typical high school football stadium requires 300 to 400 lux, which equates to approximately 35,000 Watts of LED lights.² The average wattage of a streetlight is approximately 80 watts.³ Based on preliminary plans, the proposed press box is expected to require electricity demand of 6,150 watts, with an additional 60A service for the concession/food truck pad. Lastly, a typical scoreboard has a maximum power consumption of 1,740 Watts.⁴ Conservatively assuming all the above electrical components are utilized 8 hours per day, 15 days per month, year round, the proposed lighting would consume up to 62,568 kilowatts (KW) per year.

Electricity for the proposed project will be provided by private utility. No new or upgrades to electrical utility capacities are projected as a result of this projected maximum increase in electricity demand generated by the proposed project; therefore, no significant adverse energy impacts are anticipated.

5.0 TRAFFIC

The proposed project consists of the construction of a new athletic field and bathroom to serve the existing North Salem Middle-High School, in addition to a new drainage system at the existing Tompkins Field. No new school staff or students are anticipated as a result of the proposed project; therefore, no additional traffic generation is expected as a result of staffing. Occasional temporary increases in traffic may occur during athletic events; however, impacts related to this temporary traffic are not expected to be significant and are not expected to occur during peak traffic periods.

6.0 NOISE

Occasional temporary increases in noise may occur during athletic events. The nearest residence will be over 1,000 feet from the proposed athletic field and will be separated from the field by heavy vegetation. As such, these temporary noise increases are expected to be negligible at nearby sensitive receptors, and no significant adverse impacts related to this temporary noise increases are anticipated.

7.0 ENDANGERED, THREATENED AND RARE SPECIES AND SIGNIFICANT HABITAT

The NYSDEC Environmental Resource Mapper (Figure 6) illustrates that the project area is within or on the edges of NYSDEC occurrence records. The NYSDEC EAF mapper indicates that the occurrence records near the project area are for the northern long-eared bat (NLEB). Based on a letter provided by NYSDEC Natural Heritage, there is a documented winter hibernaculum of the NLEB within three miles of the project site (see Attachment A). The Official Species List obtained from the USFWS online Information for Planning and Consultation (IPaC) system (Attachment A) indicates that the project site is located within the range of the NLEB, Indiana bat, and bog turtle. The Official Species List indicates that there are no critical habitats within the Project Area under its jurisdiction.

² <https://www.ledsmaster.com/channel/How-much-do-Stadium-Lamps-Cost-and-Running-the-Stadium-Lights--61.html>

³ <https://hypertextbook.com/facts/2004/MarinaAvetisyan.shtml>

⁴ <https://www.electro-mech.com/wp-content/uploads/manuals/MM-170.pdf>

Bog Turtle

The bog turtle is a State endangered and Federally threatened species. Since no wetlands were observed in the project site, there are no concerns for bog turtles and no additional consultation is required for this species.

Indiana Bat

The Indiana Bat is a State and Federally endangered species. While the NYSDEC EAF mapper does not indicate any occurrence records for the Indiana Bat in the vicinity of the project site, USFWS has identified the project site as being in the range of this species. This species has no incidental take allowance under the Federal Endangered Species Act. Once the detailed design plans are finalized, it can be reviewed for trees that are greater than 6" dbh. As less than 10 acres of trees will be removed, the USFWS is likely to find that restricting tree clearing to winter months (November 1 to March 31) is adequate mitigation to avoid impacts to this species. As the proposed project does not involve federal permits or loans, consultation on this species will be performed between the USFWS and the USACOE under Section 10 of the Endangered Species Act, as required prior to any clearing activities.

Northern Long-Eared Bat

The NLEB is a State and Federally threatened species. Both the NYSDEC and USFWS identifies this species as being in the range of the project site. Hibernaculum for the species are located 3.1 miles from the project site (along the east shore of the Croton Falls Reservoir), but the NYSDEC "Protection of Northern Long-Eared Bat" website indicates that the NYSDEC has no summer occurrence records for this species in the vicinity of the project site. While this species has a take allowance for tree clearing, since the proposed project is in the range of the Federally listed Indiana Bat, the timeframe restrictions for that species supersedes the NLEB allowance for take. Tree clearing is allowed from November 1 to March 31.

Regulatory Agency Coordination

As noted above, since there are no wetlands within the project site, there are no concerns for bog turtles, and no additional consultation with USFWS is required for this species. Given the habitat types on site, and the nature of the proposed project, it is unlikely that NYSDEC will require an Incidental Take Permit for the proposed project's construction. As the proposed project does not require federal permits or federal USDA loans, the landowner is required to complete a review to ensure that there is no take of federally listed species under Section 10 of the Endangered Species Act. As less than 10 acres of trees will be removed and tree clearing will be limited to winter months (November 1 to March 31), the USFWS is likely to find this to be adequate mitigation to avoid impacts to this species.

8.0 HISTORIC AND ARCHEOLOGICAL RESOURCES

According to the NYS Office of Parks, Recreation, and Historic Preservation (NYSOPRHP) Cultural Resource Information System (CRIS) mapping (Figure 7), there are no National Historic Register sites within or contiguous to the project area. The proposed project consists of the construction of a new athletic field and bathroom expansion, in addition to installing a new drainage system at the existing Tompkins Field. As the sites of the new bathroom expansion and Tompkins Field consist of previously disturbed land, the Assessment of Archaeological Potential: Tompkins Field & Bathroom Addition, North Salem High School report (included

in Attachment B) concluded that there is no potential for intact archaeological deposits within these locations and that no additional archaeological investigation of this portion of the project sit is warranted.

As the proposed athletic field would result in construction in a location that was not previously disturbed, Hudson Valley Cultural Resource Consultants conducted a Phase 1A Literature Search and Sensitivity Assessment for the proposed athletic field in November 2019, which is included in Attachment B. The report concluded that precontact and historical cultural resources may be present within the project area. Therefore, a Phase 1B Archaeological Field Reconnaissance Survey was conducted for the proposed athletic field in January 2020; the Phase 1B report is included in Attachment B. The Phase 1B report concluded that there are no archaeological sites or historic structures on the site and, therefore, the proposed athletic field will not affect any potentially significant cultural resources. The Phase 1A and Phase 1B archaeological reports have been shared with NYSOPRHP for their review and impact determination.

FULL ENVIRONMENTAL ASSESSMENT FORM (FEAF) PART 1 FORM

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either “Yes” or “No”. If the answer to the initial question is “Yes”, complete the sub-questions that follow. If the answer to the initial question is “No”, proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Applicant/Sponsor Information.

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------|
| Name of Action or Project: North Salem Central School District Athletic Fields Improvements Project | | |
| Project Location (describe, and attach a general location map): See Figures 1 and 2 230 June Road, North Salem, Westchester County, NY (p/o Parcel ID: 5-1735-50 & 5-1735-22) | | |
| Brief Description of Proposed Action (include purpose or need): Proposed improvements include the construction of a new athletic field west of the school and a new bathroom addition on the existing school building, in addition to installing a new drainage system at Tompkins Field. The new athletic field will be used for lacrosse, soccer, field hockey, and baseball/softball practices, will measure approximately 230 feet by 390 feet, and will be constructed of synthetic turf, with an underdrain system. Site improvements will also include a press box and bleacher seating for up to 300 spectators, a concrete pad for food truck and table seating, LED field lighting, a perimeter fence, ball stop netting, a pedestrian access path with pole lighting connecting the field to the existing parking lot to the south, a vehicular/maintenance path connecting the field to the existing school yard, and a stormwater management basin to be constructed to the north of the proposed athletic field, at the location of the school's abandoned tennis courts. The new bathroom addition will be constructed adjacent to the existing basketball courts, will be internally and externally accessible, will measure approximately 670 SF, and will include four gender neutral stalls. The Tompkins Field drainage system will consist of strip drains installed in a herringbone pattern within the existing field. | | |
| Name of Applicant/Sponsor: North Salem Central School District Board of Education | Telephone: 914-669-5414 | E-Mail: boe@northsalemschools.org |
| Address: 230 June Road | | |
| City/PO: North Salem | State: NY | Zip Code: 10560 |
| Project Contact (if not same as sponsor; give name and title/role): Kenneth Freeston, Superintendent | Telephone: 914-669-5414 | E-Mail: kfreeston@northsalemschools.org |
| Address: 230 June Road | | |
| City/PO: North Salem | State: NY | Zip Code: 10560 |
| Property Owner (if not same as sponsor): Same as Applicant | Telephone: | E-Mail: |
| Address: | | |
| City/PO: | State: | Zip Code: |

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. (“Funding” includes grants, loans, tax relief, and any other forms of financial assistance.)

| Government Entity | If Yes: Identify Agency and Approval(s) Required | Application Date (Actual or projected) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------|
| a. City Counsel, Town Board, <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No or Village Board of Trustees | | |
| b. City, Town or Village Planning Board or Commission <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| c. City, Town or Village Zoning Board of Appeals <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| d. Other local agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| e. County agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| f. Regional agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| g. State agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | GP-0-20-001 SPDES General Permit (NYSDEC), NYSED Approval, SHPO consultation | Summer 2020 |
| h. Federal agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| <p>i. Coastal Resources.</p> <p><i>i.</i> Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><i>ii.</i> Is the project site located in a community with an approved Local Waterfront Revitalization Program? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><i>iii.</i> Is the project site within a Coastal Erosion Hazard Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> | | |

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? Yes No

- **If Yes**, complete sections C, F and G.
- **If No**, proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans. See Endnotes 2.1, 2.2, and 2.3

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? Yes No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? Yes No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) Yes No

If Yes, identify the plan(s):

NYC Watershed Boundary, Stormwater Reconnaissance Plan for the Croton River and Inland Long Island Sound Watersheds, The Croton Plan for Westchester: The Comprehensive Croton Watershed Water Quality Protection Plan

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? Yes No

If Yes, identify the plan(s):

The North Salem Open Space Plan 2009, Westchester County Agriculture and Farmland Protection Plan 2004

C.3. Zoning

See Endnote 2.3

- a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. Yes No
 If Yes, what is the zoning classification(s) including any applicable overlay district?
Rural Density Residential (R-4)
- b. Is the use permitted or allowed by a special or conditional use permit? Yes No
- c. Is a zoning change requested as part of the proposed action? Yes No
 If Yes,
 i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

- a. In what school district is the project site located? North Salem Central School District
- b. What police or other public protection forces serve the project site?
North Salem Police, Westchester County Sheriff
- c. Which fire protection and emergency medical services serve the project site?
North Salem Fire Department, Croton Falls Fire Department, North Salem Volunteer Ambulance Corps.
- d. What parks serve the project site?
Mountain Lakes Camp, Westchester County Park

D. Project Details**D.1. Proposed and Potential Development**

- a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Recreational
- b. a. Total acreage of the site of the proposed action? _____ 69.2 acres
 b. Total acreage to be physically disturbed? _____ 5.0 acres
 c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ 69.2 acres
- c. Is the proposed action an expansion of an existing project or use? Yes No
 i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: 4.6 acres
- d. Is the proposed action a subdivision, or does it include a subdivision? Yes No
 If Yes,
 i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types) _____
 ii. Is a cluster/conservation layout proposed? Yes No
 iii. Number of lots proposed? _____
 iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____
- e. Will the proposed action be constructed in multiple phases? Yes No
 i. If No, anticipated period of construction: _____ months
 ii. If Yes:
 • Total number of phases anticipated _____ 2
 • Anticipated commencement date of phase 1 (including demolition) _____ 12 month 2020 year
 • Anticipated completion date of final phase _____ 8 month 2022 year
 • Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

The initial phase of work would be to construct the new synthetic turf field and bathrooms. Once completed, reconstruction of Tompkins Field for drainage improvements would occur.

f. Does the project include new residential uses? Yes No
 If Yes, show numbers of units proposed.

| | <u>One Family</u> | <u>Two Family</u> | <u>Three Family</u> | <u>Multiple Family (four or more)</u> |
|---------------|-------------------|-------------------|---------------------|---------------------------------------|
| Initial Phase | _____ | _____ | _____ | _____ |
| At completion | _____ | _____ | _____ | _____ |
| of all phases | _____ | _____ | _____ | _____ |

g. Does the proposed action include new non-residential construction (including expansions)? Yes No
 If Yes,

i. Total number of structures 2 (bathroom addition & press box/bleachers)
 ii. Dimensions (in feet) of largest proposed structure: 19.2 height; 26 width; and 87 length (press box + bleachers)
 iii. Approximate extent of building space to be heated or cooled: 770 square feet (inc. 670 SF bathroom + 100 SF press box)

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? Yes No
 If Yes,

i. Purpose of the impoundment: _____
 ii. If a water impoundment, the principal source of the water: Ground water Surface water streams Other specify: _____
 iii. If other than water, identify the type of impounded/contained liquids and their source. _____
 iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres
 v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length
 vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): _____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? Yes No
 (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)
 If Yes:

i. What is the purpose of the excavation or dredging? _____
 ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?
 • Volume (specify tons or cubic yards): _____
 • Over what duration of time? _____
 iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them. _____

 iv. Will there be onsite dewatering or processing of excavated materials? Yes No
 If yes, describe. _____

 v. What is the total area to be dredged or excavated? _____ acres
 vi. What is the maximum area to be worked at any one time? _____ acres
 vii. What would be the maximum depth of excavation or dredging? _____ feet
 viii. Will the excavation require blasting? Yes No
 ix. Summarize site reclamation goals and plan: _____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? Yes No
 If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will the proposed action cause or result in disturbance to bottom sediments? Yes No
If Yes, describe: _____

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? Yes No
If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____
- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

c. Will the proposed action use, or create a new demand for water? See Endnote 4.1 Yes No
If Yes:

i. Total anticipated water usage/demand per day: _____ TBD gallons/day

ii. Will the proposed action obtain water from an existing public water supply? Yes No
If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? Yes No
- Is the project site in the existing district? Yes No
- Is expansion of the district needed? Yes No
- Do existing lines serve the project site? Yes No

iii. Will line extension within an existing district be necessary to supply the project? Yes No
If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____
- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? Yes No
If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

The project will utilize the existing private water supply well that currently serves the project area.

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ 40 gallons/minute.

d. Will the proposed action generate liquid wastes? Yes No
If Yes: See Endnote 4.2

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

iii. Will the proposed action use any existing public wastewater treatment facilities? Yes No
If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? Yes No
- Is the project site in the existing district? Yes No
- Is expansion of the district needed? Yes No

• Do existing sewer lines serve the project site? Yes No
 • Will a line extension within an existing district be necessary to serve the project? Yes No
 If Yes:
 • Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? Yes No
 If Yes:
 • Applicant/sponsor for new district: _____
 • Date application submitted or anticipated: _____
 • What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? Yes No
 See Endnote 4.3
 If Yes:
 i. How much impervious surface will the project create in relation to total size of project parcel?
 _____ Square feet or -0.01 acres (impervious surface)
 _____ Square feet or 69.2 acres (parcel size)
 ii. Describe types of new point sources. Artificial turf field and pathways

 iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?
The turf field's stormwater runoff will be directed to a stormwater infiltration basin, which will have an outlet control structure that will control the rate of runoff to match pre-development conditions to the west and will ultimately flow to a stream along the western boundary of the project area.

 • If to surface waters, identify receiving water bodies or wetlands: _____

 • Will stormwater runoff flow to adjacent properties? Yes No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? Yes No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? Yes No
 If Yes, identify:
 i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

 ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

 iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? Yes No
 If Yes:
 i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) Yes No
 ii. In addition to emissions as calculated in the application, the project will generate:
 • _____ Tons/year (short tons) of Carbon Dioxide (CO₂)
 • _____ Tons/year (short tons) of Nitrous Oxide (N₂O)
 • _____ Tons/year (short tons) of Perfluorocarbons (PFCs)
 • _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆)
 • _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflouorocarbons (HFCs)
 • _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? Yes No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? Yes No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? Yes No
See Endnote 5.0

If Yes:

i. When is the peak traffic expected (Check all that apply): Morning Evening Weekend
 Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? Yes No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____

vi. Are public/private transportation service(s) or facilities available within 1/2 mile of the proposed site? Yes No

vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? Yes No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? Yes No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? Yes No
See Endnote 4.4

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____
62,568 kW

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):
Private utility

iii. Will the proposed action require a new, or an upgrade, to an existing substation? Yes No

l. Hours of operation. Answer all items which apply.

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>i. During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ 7 AM - 6 PM • Saturday: _____ 8 AM - 5 PM • Sunday: _____ NA • Holidays: _____ NA | <p>ii. During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ 6 AM - 10 PM • Saturday: _____ 6 AM - 10 PM • Sunday: _____ 6 AM - 10 PM • Holidays: _____ None |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? Yes No
See Endnote 6.0
If yes:
i. Provide details including sources, time of day and duration:
Noise that exceeds local ambient noise levels may occur occasionally during athletic events (operation). Elevated noise levels will be short term, of short duration, and consistent with the current noise-generating characteristics of the school.

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? Yes No
Describe: Approximately 3.0 acres of tree clearing/removal will occur. A significant amount of additional existing natural barriers will remain between the project site and adjacent properties.

n. Will the proposed action have outdoor lighting? Yes No
If yes:
i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:
Seven 12' high pedestrian light fixtures spaced at 60' increments along the proposed pedestrian access path; Four LED field lighting fixtures along the perimeter of the proposed athletic field

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? Yes No
Describe: Approximately 3.0 acres of tree clearing/removal will occur. A significant amount of additional existing natural barriers will remain between the project site and adjacent properties.

o. Does the proposed action have the potential to produce odors for more than one hour per day? Yes No
If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? Yes No
If Yes:
i. Product(s) to be stored _____
ii. Volume(s) _____ per unit time _____ (e.g., month, year)
iii. Generally, describe the proposed storage facilities: _____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? Yes No
If Yes:
i. Describe proposed treatment(s): _____

ii. Will the proposed action use Integrated Pest Management Practices? Yes No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? Yes No
If Yes:
i. Describe any solid waste(s) to be generated during construction or operation of the facility:
• Construction: _____ tons per _____ (unit of time)
• Operation : _____ tons per _____ (unit of time)
ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:
• Construction: _____

• Operation: _____

iii. Proposed disposal methods/facilities for solid waste generated on-site:
• Construction: _____

• Operation: _____

s. Does the proposed action include construction or modification of a solid waste management facility? Yes No
 If Yes:
 i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____
 ii. Anticipated rate of disposal/processing:
 • _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
 • _____ Tons/hour, if combustion or thermal treatment
 iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? Yes No
 If Yes:
 i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

 ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

 iii. Specify amount to be handled or generated _____ tons/month
 iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

 v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? Yes No
 If Yes: provide name and location of facility: _____

 If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses. See Figure 5
 i. Check all uses that occur on, adjoining and near the project site.
 Urban Industrial Commercial Residential (suburban) Rural (non-farm)
 Forest Agriculture Aquatic Other (specify): School (educational)
 ii. If mix of uses, generally describe:

b. Land uses and coverytypes on the project site.

| Land use or Coverytype | Current Acreage | Acreage After Project Completion | Change (Acres +/-) |
|------------------------------------------------------------------------------------------|-----------------|----------------------------------|--------------------|
| • Roads, buildings, and other paved or impervious surfaces | 0.28 | 0.27 | -0.01 |
| • Forested | 3.0 | 0 | -3.0 |
| • Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural) | 1.71 | 2.66 | +0.95 |
| • Agricultural (includes active orchards, field, greenhouse etc.) | 0 | 0 | 0 |
| • Surface water features (lakes, ponds, streams, rivers, etc.) | 0 | 0 | 0 |
| • Wetlands (freshwater or tidal) | 0 | 0 | 0 |
| • Non-vegetated (bare rock, earth or fill) | 0.01 | 0 | -0.01 |
| • Other Describe: <u>Synthetic turf</u> | 0 | 2.07 | +2.07 |

c. Is the project site presently used by members of the community for public recreation? Yes No
i. If Yes: explain: Areas of the site are used by students and community members for recreational activities.

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? Yes No
If Yes,
i. Identify Facilities:
The project site is occupied by the North Salem Middle-High School, a public school serving the area.

e. Does the project site contain an existing dam? Yes No
If Yes:
i. Dimensions of the dam and impoundment:
• Dam height: _____ feet
• Dam length: _____ feet
• Surface area: _____ acres
• Volume impounded: _____ gallons OR acre-feet
ii. Dam's existing hazard classification: _____
iii. Provide date and summarize results of last inspection:

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? Yes No
If Yes:
i. Has the facility been formally closed? Yes No
• If yes, cite sources/documentation: _____
ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

iii. Describe any development constraints due to the prior solid waste activities: _____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? Yes No
If Yes:
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? Yes No
If Yes:
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: Yes No
 Yes – Spills Incidents database Provide DEC ID number(s): _____
 Yes – Environmental Site Remediation database Provide DEC ID number(s): _____
 Neither database
ii. If site has been subject of RCRA corrective activities, describe control measures: _____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? Yes No
If yes, provide DEC ID number(s): _____
iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

v. Is the project site subject to an institutional control limiting property uses? Yes No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? Yes No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? _____ Over 6.5 feet

b. Are there bedrock outcroppings on the project site? Yes No
 If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ 0.002 %

| | | | |
|------------------------------------------------------|----------------------------------|------|---------------------------------|
| c. Predominant soil type(s) present on project site: | Charlton-Chatfield complex (CrC) | 31 % | See Figure 4 and Endnote 3.1 |
| | Chatfield-Charlton complex (CsD) | 17 % | |
| | Natchaug muck (NcA) | 20 % | |

d. What is the average depth to the water table on the project site? Average: 0 to > 6.5 feet

e. Drainage status of project site soils: Well Drained: _____ 65 % of site
 Moderately Well Drained: _____ % of site
 Poorly Drained _____ 35 % of site

f. Approximate proportion of proposed action site with slopes: 0-10%: _____ 77 % of site
 10-15%: _____ 14 % of site
 15% or greater: _____ 9 % of site

g. Are there any unique geologic features on the project site? Yes No
 If Yes, describe: _____

h. Surface water features. See Figures 3 and 6 and Endnote 3.2

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? Yes No

ii. Do any wetlands or other waterbodies adjoin the project site? Yes No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? Yes No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name 864-294 Classification C
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name Federal Waters, NYS Wetland, Federal Waters, Fe... Approximate Size NYS Wetland (in a...
- Wetland No. (if regulated by DEC) L-32

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? Yes No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? Yes No

j. Is the project site in the 100-year Floodplain? Yes No

k. Is the project site in the 500-year Floodplain? Yes No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? Yes No

If Yes:
 i. Name of aquifer: _____



m. Identify the predominant wildlife species that occupy or use the project site:
Typical Westchester County species _____

n. Does the project site contain a designated significant natural community? Yes No
 If Yes:
 i. Describe the habitat/community (composition, function, and basis for designation): _____
 ii. Source(s) of description or evaluation: _____
 iii. Extent of community/habitat:
 • Currently: _____ acres
 • Following completion of project as proposed: _____ acres
 • Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? Yes No See Figure 6 and Endnote 7.0
 If Yes:
 i. Species and listing (endangered or threatened): _____
 Northern Long-eared Bat

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? Yes No
 If Yes:
 i. Species and listing: _____

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? Yes No
 If yes, give a brief description of how the proposed action may affect that use: _____

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? Yes No
 If Yes, provide county plus district name/number: WEST001

b. Are agricultural lands consisting of highly productive soils present? Yes No
 i. If Yes: acreage(s) on project site? _____
 ii. Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? Yes No
 If Yes:
 i. Nature of the natural landmark: Biological Community Geological Feature
 ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? Yes No
 If Yes:
 i. CEA name: _____
 ii. Basis for designation: _____
 iii. Designating agency and date: _____

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? If Yes: i. Nature of historic/archaeological resource: <input type="checkbox"/> Archaeological Site <input type="checkbox"/> Historic Building or District ii. Name: _____ iii. Brief description of attributes on which listing is based: _____ | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No See Figure 7 |
| f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| g. Have additional archaeological or historic site(s) or resources been identified on the project site? If Yes: i. Describe possible resource(s): _____ ii. Basis for identification: _____ | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No See Endnote 8.0 |
| h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? See Figure 8 If Yes: i. Identify resource: <u>several S/NR historic districts and historic resources, Mountain Lakes Camp County Park, several municipal recreation facilities</u> ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): <u>S/NR; state, county, and municipal recreation</u> iii. Distance between project and resource: _____ Up to 5 miles. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? If Yes: i. Identify the name of the river and its designation: _____ ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No |

F. Additional Information

Attach any additional information which may be needed to clarify your project.

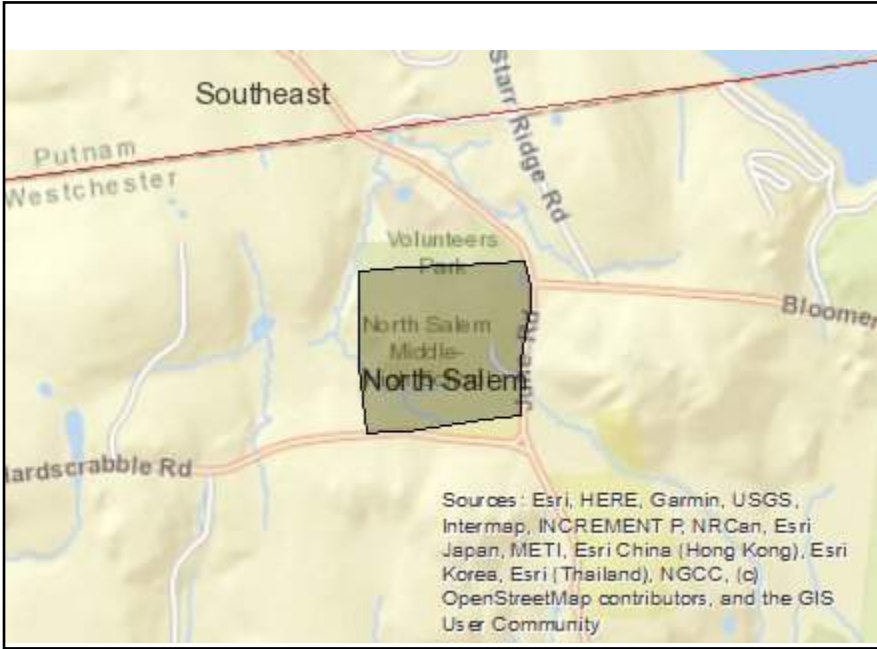
If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name _____ Date _____

Signature _____ Title _____



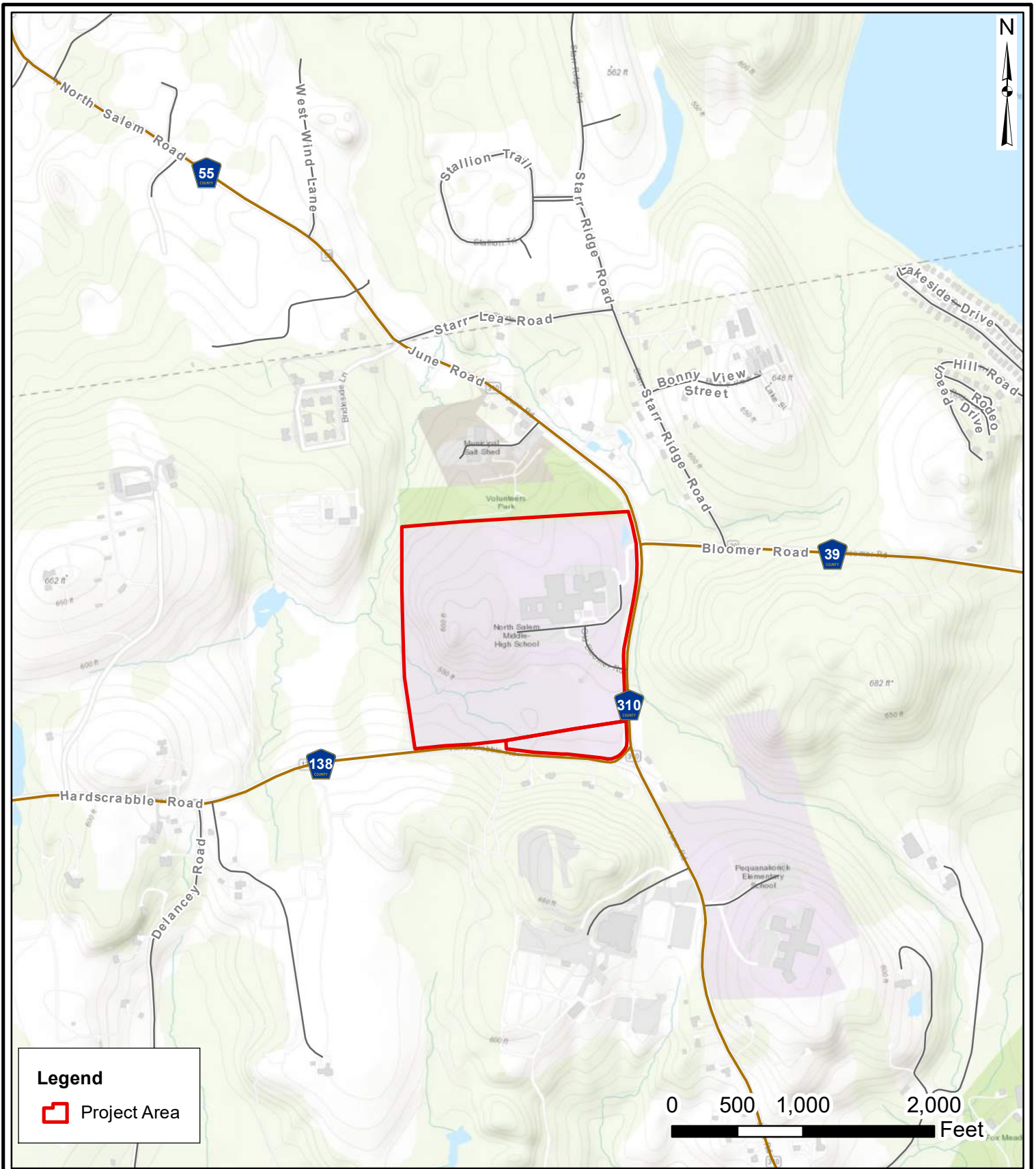
Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



| | |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| B.i.i [Coastal or Waterfront Area] | No |
| B.i.ii [Local Waterfront Revitalization Area] | No |
| C.2.b. [Special Planning District] | Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook. |
| C.2.b. [Special Planning District - Name] | NYC Watershed Boundary |
| E.1.h [DEC Spills or Remediation Site - Potential Contamination History] | Digital mapping data are not available or are incomplete. Refer to EAF Workbook. |
| E.1.h.i [DEC Spills or Remediation Site - Listed] | Digital mapping data are not available or are incomplete. Refer to EAF Workbook. |
| E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database] | Digital mapping data are not available or are incomplete. Refer to EAF Workbook. |
| E.1.h.iii [Within 2,000' of DEC Remediation Site] | No |
| E.2.g [Unique Geologic Features] | No |
| E.2.h.i [Surface Water Features] | Yes |
| E.2.h.ii [Surface Water Features] | Yes |
| E.2.h.iii [Surface Water Features] | Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook. |
| E.2.h.iv [Surface Water Features - Stream Name] | 864-294 |
| E.2.h.iv [Surface Water Features - Stream Classification] | C |
| E.2.h.iv [Surface Water Features - Wetlands Name] | Federal Waters, NYS Wetland |
| E.2.h.iv [Surface Water Features - Wetlands Size] | NYS Wetland (in acres):47.0 |

| | |
|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| E.2.h.iv [Surface Water Features - DEC Wetlands Number] | L-32 |
| E.2.h.v [Impaired Water Bodies] | No |
| E.2.i. [Floodway] | No |
| E.2.j. [100 Year Floodplain] | No |
| E.2.k. [500 Year Floodplain] | No |
| E.2.l. [Aquifers] | No |
| E.2.n. [Natural Communities] | No |
| E.2.o. [Endangered or Threatened Species] | Yes |
| E.2.o. [Endangered or Threatened Species - Name] | Northern Long-eared Bat |
| E.2.p. [Rare Plants or Animals] | No |
| E.3.a. [Agricultural District] | Yes |
| E.3.a. [Agricultural District] | WEST001 |
| E.3.c. [National Natural Landmark] | No |
| E.3.d [Critical Environmental Area] | No |
| E.3.e. [National or State Register of Historic Places or State Eligible Sites] | Digital mapping data are not available or are incomplete. Refer to EAF Workbook. |
| E.3.f. [Archeological Sites] | No |
| E.3.i. [Designated River Corridor] | No |

FIGURES



THE Chazen COMPANIES
ENGINEERS
 LAND SURVEYORS
 PLANNERS
 ENVIRONMENTAL & SAFETY PROFESSIONALS
 LANDSCAPE ARCHITECTS

Dutchess County Office:
 21 Fox Street, Poughkeepsie, NY 12601
 Phone: (845) 454-3980

Capital District Office:
 547 River Street, Troy, NY 12180
 Phone: (518) 273-0055

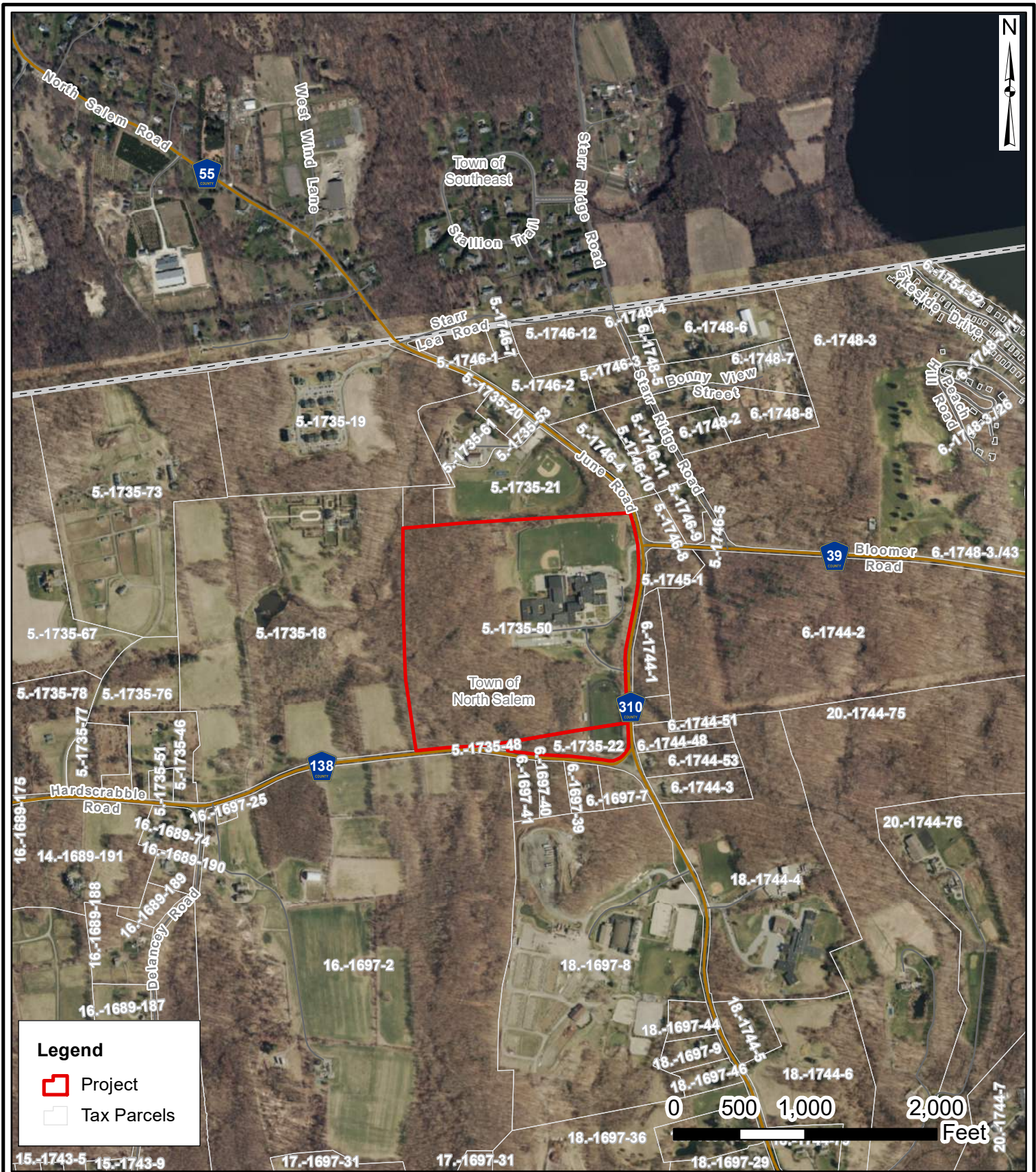
North Country Office:
 20 Elm Street, Glens Falls, NY 12801
 Phone: (518) 812-0513

**North Salem Central School District
 Athletic Fields Improvement Project**

Site Location Map

Town of North Salem - Westchester County, NY

| | |
|----------|---------------------|
| Drawn: | JC |
| Date: | 12/5/2019 |
| Scale: | 1 inch = 1,000 feet |
| Project: | 318AJ.03 |
| Figure: | 1 |



Legend

- Project
- Tax Parcels

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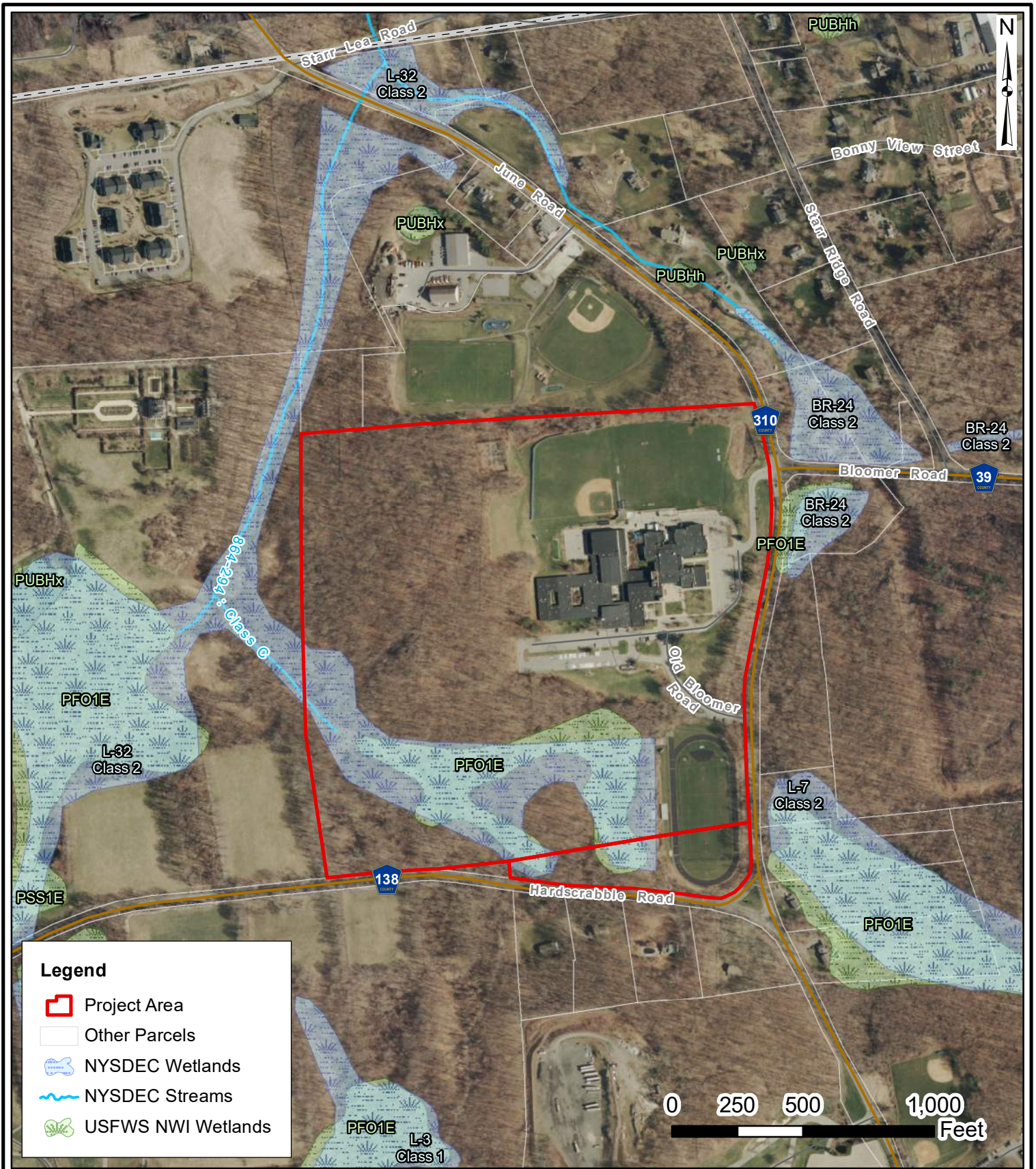
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**North Salem Central School District
 Athletic Fields Improvement Project**

Orthophoto Map

Town of North Salem - Westchester County, NY

| | |
|----------|---------------------|
| Drawn: | JC |
| Date: | 12/5/2019 |
| Scale: | 1 inch = 1,000 feet |
| Project: | 318AJ.03 |
| Figure: | 2 |



Legend

- Project Area
- Other Parcels
- NYSDEC Wetlands
- ~ NYSDEC Streams
- USFWS NWI Wetlands

THE Chazen COMPANIES
ENGINEERS
 LAND SURVEYORS
 PLANNERS
 ENVIRONMENTAL & SAFETY PROFESSIONALS
 LANDSCAPE ARCHITECTS

Dutchess County Office:
 21 Fox Street, Poughkeepsie, NY 12601
 Phone: (845) 454-3980

Capital District Office:
 547 River Street, Troy, NY 12180
 Phone: (518) 273-0055

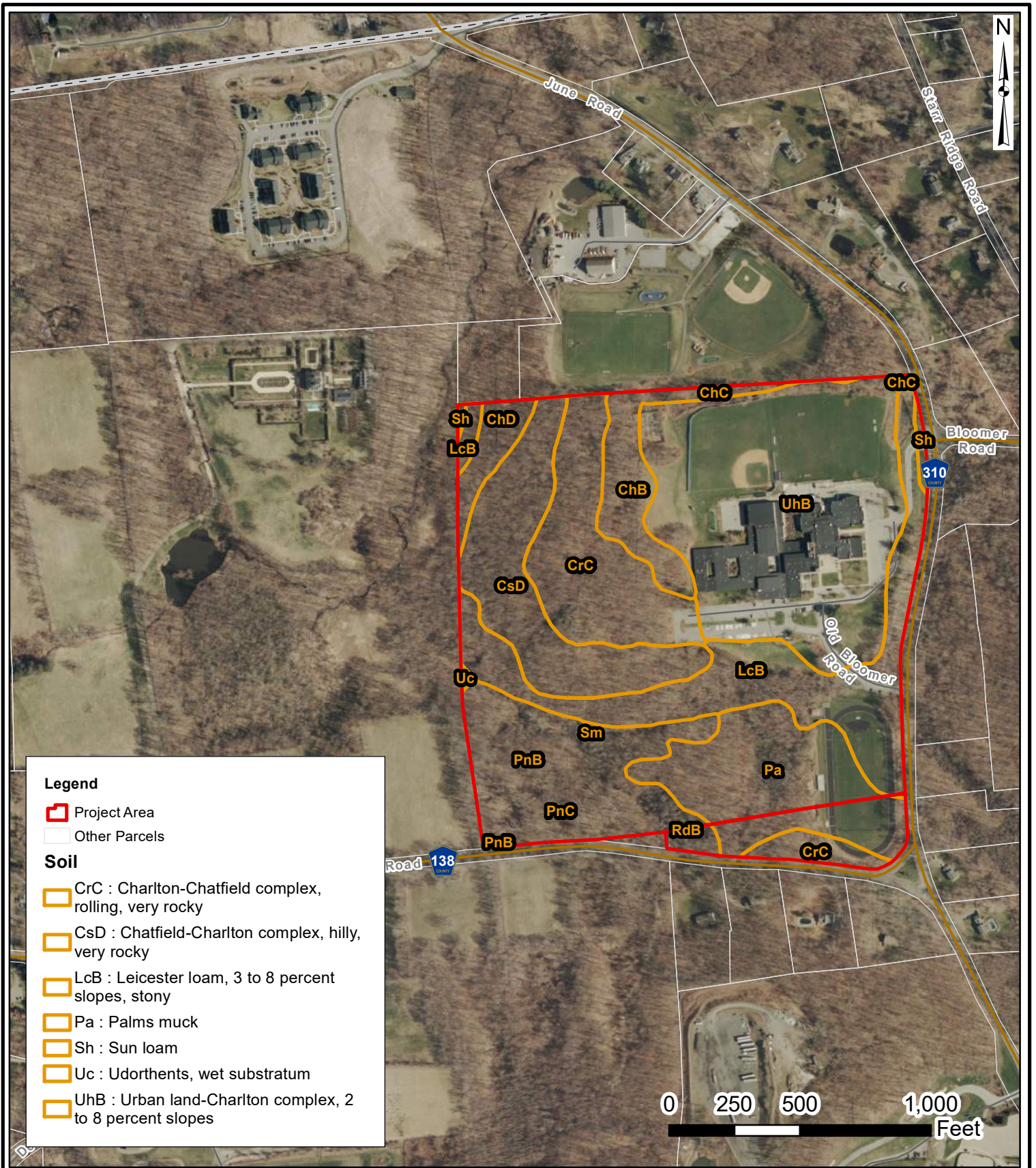
North Country Office:
 20 Elm Street, Glens Falls, NY 12801
 Phone: (518) 812-0513

**North Salem Central School District
 Athletic Fields Improvement Project**

Wetlands and Streams

Town of North Salem - Westchester County, NY

| | |
|----------|-------------------|
| Drawn: | JC |
| Date: | 12/5/2019 |
| Scale: | 1 inch = 500 feet |
| Project: | 318AJ.03 |
| Figure: | 3 |



Legend

- Project Area
- Other Parcels

Soil

- CrC : Charlton-Chatfield complex, rolling, very rocky
- CsD : Chatfield-Charlton complex, hilly, very rocky
- LcB : Leicester loam, 3 to 8 percent slopes, stony
- Pa : Palms muck
- Sh : Sun loam
- Uc : Udorthents, wet substratum
- UhB : Urban land-Charlton complex, 2 to 8 percent slopes

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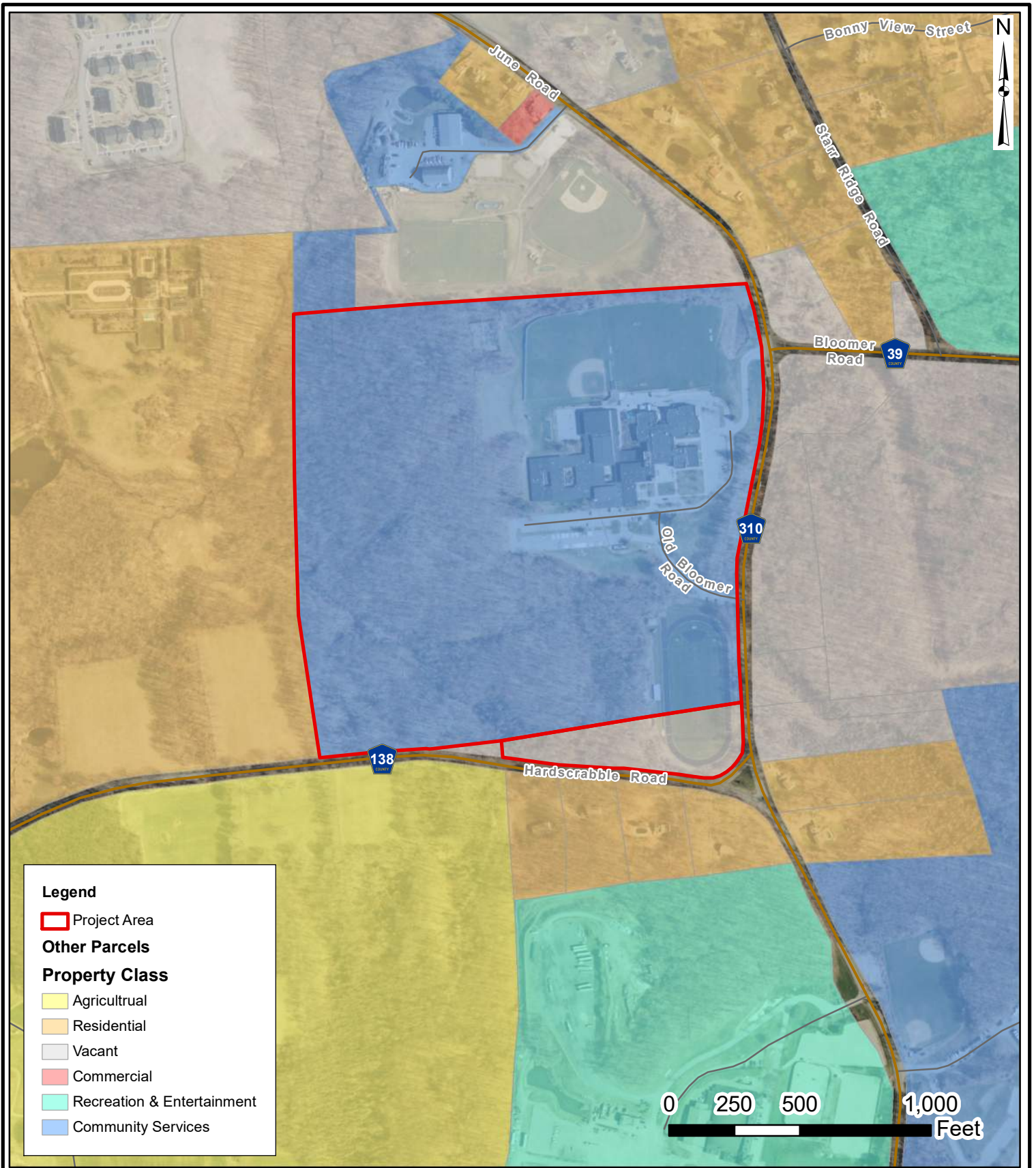
North Country Office:
 20 Elm Street, Glens Falls, NY 12801
 Phone: (518) 812-0513

**North Salem Central School
 Athletic Fields Improvement Project**

Soils Map

Town of North Salem - Westchester County, NY

| | |
|----------|-------------------|
| Drawn: | JC |
| Date: | 12/5/2019 |
| Scale: | 1 inch = 500 feet |
| Project: | 318AJ.03 |
| Figure: | 4 |



Legend

Project Area

Other Parcels

Property Class

- Agricultural
- Residential
- Vacant
- Commercial
- Recreation & Entertainment
- Community Services

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 Phone: (518) 812-0513

**North Salem Central School District
 Athletic Fields Improvement Project**

Land Use Map

Town of North Salem - Westchester County, NY

| | |
|----------|-------------------|
| Drawn: | JC |
| Date: | 12/5/2019 |
| Scale: | 1 inch = 500 feet |
| Project: | 318AJ.03 |
| Figure: | 5 |



Legend

-  Project Area
-  Rare Plants or Animals
-  State Regulated Freshwater Wetlands
-  State Regulated Wetland Checkzone

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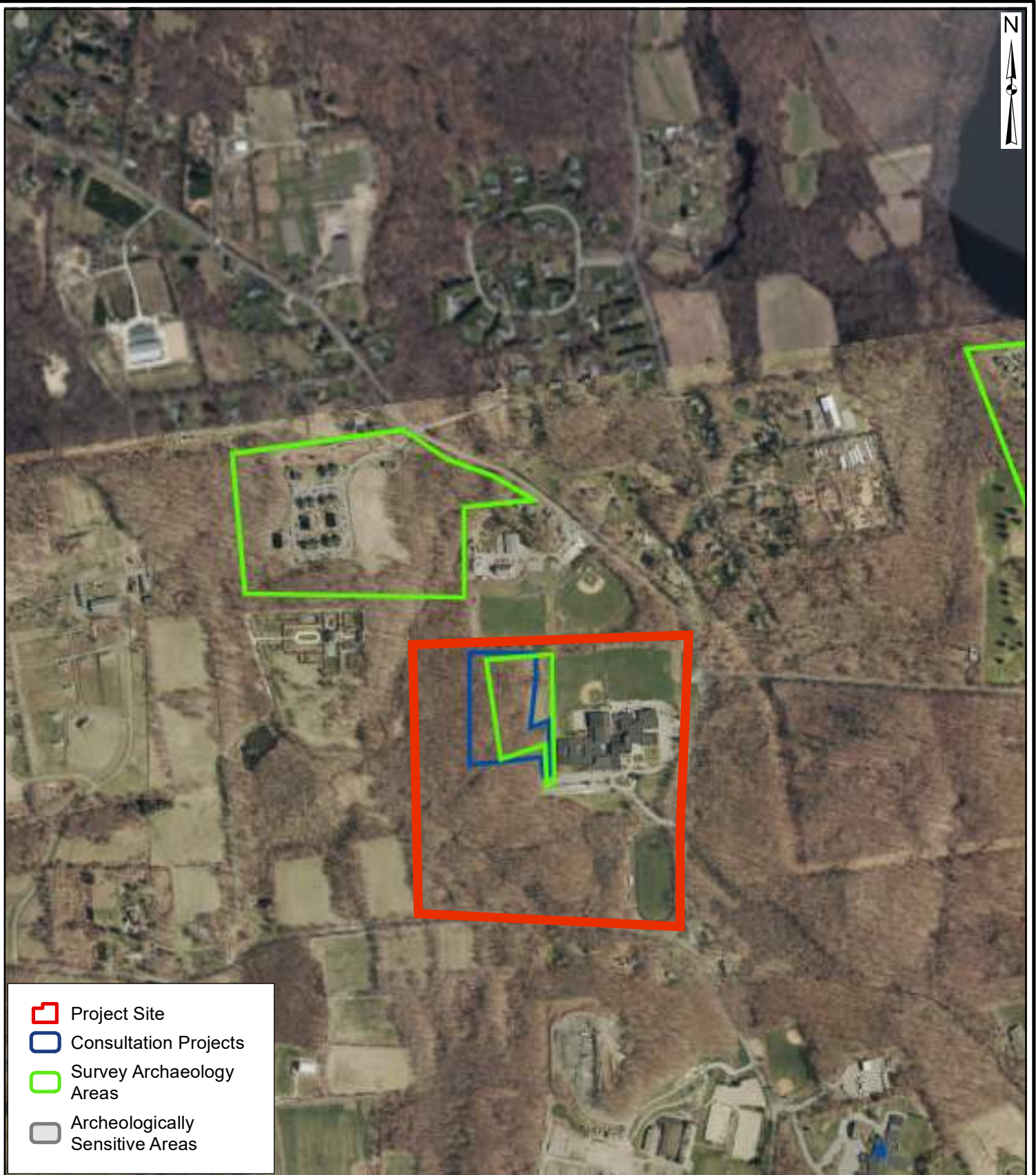
North Country Office:
 20 Elm Street, Glens Falls, NY 12801
 Phone: (518) 812-0513

**North Salem Central School District
 Athletic Fields Improvement Project**

NYSDEC Environmental Resource Map

Town of North Salem - Westchester County, NY

| | |
|----------|--------------|
| Drawn: | JC |
| Date: | 01/30/2020 |
| Scale: | Not to scale |
| Project: | 318AJ.03 |
| Figure: | 6 |



-  Project Site
-  Consultation Projects
-  Survey Archaeology Areas
-  Archeologically Sensitive Areas

THE Chazen COMPANIES
ENGINEERS
 LAND SURVEYORS
 PLANNERS
 ENVIRONMENTAL & SAFETY PROFESSIONALS
 LANDSCAPE ARCHITECTS

Dutchess County Office:
 21 Fox Street, Poughkeepsie, NY 12601
 Phone: (845) 454-3980

Capital District Office:
 547 River Street, Troy, NY 12180
 Phone: (518) 273-0055

North Country Office:
 20 Elm St, Suite 110
 Glens Falls, NY 12801
 Phone: (518) 812-0513

**North Salem Central School District
 Athletic Improvement Project**

**NYSOPRHP Cultural Resource
 Information System (CRIS) Map**

Town of North Salem - Westchester County, NY

| | |
|----------|--------------|
| Drawn: | JC |
| Date: | 01/30/2020 |
| Scale: | Not to Scale |
| Project: | 318AJ.03 |
| Figure: | 7 |

ATTACHMENT A
NYSDEC NHP Correspondence and
USFWS Official Species List

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, New York Natural Heritage Program
625 Broadway, Fifth Floor, Albany, NY 12233-4757
P: (518) 402-8935 | F: (518) 402-8925
www.dec.ny.gov

January 3, 2020

Norabelle Greenberger
The Chazen Companies
20 Elm Street, Suite 110
Glens Falls, NY 12801

Re: North Salem Middle-High School Synthetic Turf Field
County: Westchester Town/City: North Salem

Dear Ms. Greenberger:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

We have no records of rare or state-listed animals or plants, or significant natural communities at the project site.

Within three miles of the project site is a documented winter hibernaculum of **Northern long-eared bat** (*Myotis septentrionalis*, state and federally listed as Threatened). These bats may travel five miles or more from documented locations. The main impact of concern for bats is the cutting or removal of potential roost trees. For information about any permit considerations for your project, contact the Permits staff at the NYSDEC Region 3 Office at dep.r3@dec.ny.gov, (845) 256-3054.

For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other resources may be required to fully assess impacts on biological resources.

For information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the NYS DEC Region 3 Office, Division of Environmental Permits, as listed above.

Sincerely,



Nicholas Conrad
Information Resources Coordinator
New York Natural Heritage Program



United States Department of the Interior



FISH AND WILDLIFE SERVICE
New York Ecological Services Field Office
3817 Luker Road
Cortland, NY 13045-9385

Phone: (607) 753-9334 Fax: (607) 753-9699

<http://www.fws.gov/northeast/nyfo/es/section7.htm>

In Reply Refer To:

December 02, 2019

Consultation Code: 05E1NY00-2020-SLI-0817

Event Code: 05E1NY00-2020-E-02519

Project Name: North Salem Central School District

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 *et seq.*). This list can also be used to determine whether listed species may be present for projects without federal agency involvement. New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list.

Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC site at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list. If listed, proposed, or candidate species were identified as potentially occurring in the project area, coordination with our office is encouraged. Information on the steps involved with assessing potential impacts from projects can be found at: <http://www.fws.gov/northeast/nyfo/es/section7.htm>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (<http://www.fws.gov/windenergy/>

[eagle_guidance.html](#)). Additionally, wind energy projects should follow the Services wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the ESA. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New York Ecological Services Field Office

3817 Luker Road

Cortland, NY 13045-9385

(607) 753-9334

This project's location is within the jurisdiction of multiple offices. Expect additional species list documents from the following office, and expect that the species and critical habitats in each document reflect only those that fall in the office's jurisdiction:

Long Island Ecological Services Field Office

340 Smith Road

Shirley, NY 11967-2258

(631) 286-0485

Project Summary

Consultation Code: 05E1NY00-2020-SLI-0817

Event Code: 05E1NY00-2020-E-02519

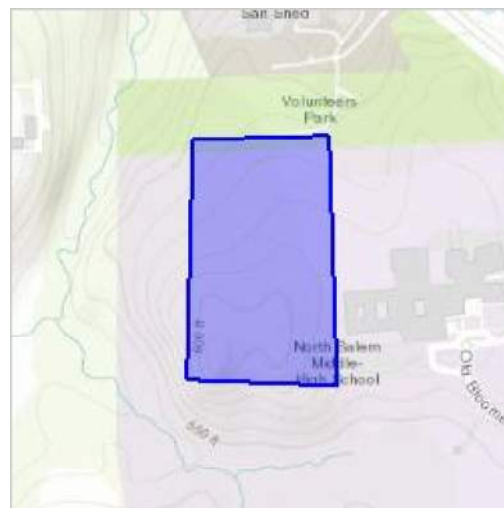
Project Name: North Salem Central School District

Project Type: RECREATION CONSTRUCTION / MAINTENANCE

Project Description: The study area is approximately 13 acres and is located north of Route 138 and west of Route 310 in the Town of North Salem, Westchester County, NY. This project is associated with a new synthetic turf athletic field with ancillary facilities proposed at the North Salem Central School District campus.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/41.35576869666074N73.59786285134797W>



Counties: Westchester, NY

Endangered Species Act Species

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

| NAME | STATUS |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Indiana Bat <i>Myotis sodalis</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5949 | Endangered |
| Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045 | Threatened |

Reptiles

| NAME | STATUS |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Bog Turtle <i>Clemmys muhlenbergii</i> Population: Wherever found, except GA, NC, SC, TN, VA No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6962 Species survey guidelines: https://ecos.fws.gov/ipac/guideline/survey/population/182/office/52410.pdf Habitat assessment guidelines: https://ecos.fws.gov/ipac/guideline/assessment/population/182/office/52410.pdf | Threatened |

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Long Island Ecological Services Field Office
340 Smith Road
Shirley, NY 11967-2258
Phone: (631) 286-0485 Fax: (631) 286-4003

In Reply Refer To:

December 02, 2019

Consultation Code: 05E1LI00-2020-SLI-0125

Event Code: 05E1LI00-2020-E-00276

Project Name: North Salem Central School District

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

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We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
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Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Long Island Ecological Services Field Office

340 Smith Road
Shirley, NY 11967-2258
(631) 286-0485

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New York Ecological Services Field Office

3817 Luker Road
Cortland, NY 13045-9385
(607) 753-9334

Project Summary

Consultation Code: 05E1LI00-2020-SLI-0125

Event Code: 05E1LI00-2020-E-00276

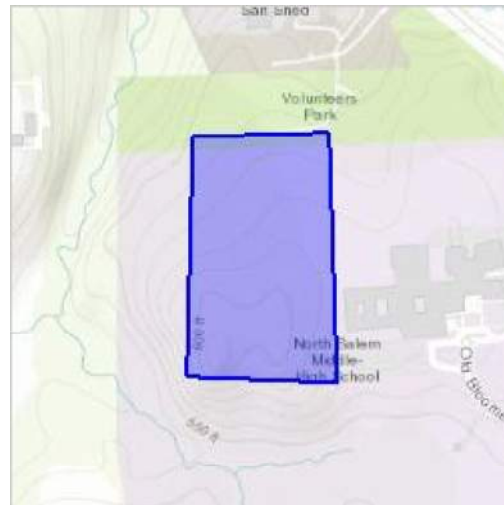
Project Name: North Salem Central School District

Project Type: RECREATION CONSTRUCTION / MAINTENANCE

Project Description: The study area is approximately 13 acres and is located north of Route 138 and west of Route 310 in the Town of North Salem, Westchester County, NY. This project is associated with a new synthetic turf athletic field with ancillary facilities proposed at the North Salem Central School District campus.

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See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

| NAME | STATUS |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Indiana Bat <i>Myotis sodalis</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5949 | Endangered |
| Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045 | Threatened |

Reptiles

| NAME | STATUS |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Bog Turtle <i>Clemmys muhlenbergii</i> Population: Wherever found, except GA, NC, SC, TN, VA No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6962 | Threatened |

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

ATTACHMENT B
Archaeology Reports

**ASSESSMENT OF ARCHAEOLOGICAL POTENTIAL
TOMPKINS FIELD & BATHROOM ADDITION
NORTH SALEM HIGH SCHOOL**

NORTH SALEM, WESTCHESTER COUNTY, NEW YORK

PREPARED FOR:

**THE CHAZEN COMPANIES
21 FOX STREET
POUGHKEEPSIE, NY 12601**



**HUDSON VALLEY
CULTURAL RESOURCE CONSULTANTS, LTD.
3 LYONS DRIVE POUGHKEEPSIE, NY 12601**

JANUARY 2020

MANAGEMENT SUMMARY

Involved State and Federal Agencies (DEC, CORPS, FHWA, etc.): **SEQRA**

Phase of Survey **Assessment of Archaeological Potential**

Local Information

Site Name: **Tompkins Field & Bathroom Addition- North Salem High School**

Location: **230 June Road**

Minor Civil Division: **North Salem**

County: **Westchester County**

Survey Area (Metric & English)

Length: **650'/198.17 m**

Width: **325'/99 m**

Depth (when appropriate):

Number of Acres Surveyed: **±4.84 (1.95 hectares)**

Project Information

The proposed undertaking includes improvements to an existing drainage system, within an existing athletic field (Tompkins Field). The scope of work includes adding a small addition to the western elevation of the school building to create additional bathroom spaces. These proposed tasks are located in areas that have been previously disturbed. The landscape within the sports field has been dug out, graded and leveled, with drainage lines installed underneath the existing surface of the field. The landscape adjacent to the High School building has been disturbed through the construction of the building, and addition in the late twentieth century, and the leveling of the landscape for basketball courts. This area is currently partially covered with asphalt.

USGS 7.5 Minute Quadrangle Map: **Peach Lake, New York 2019**

Report Author (s): **Beth Selig, MA, RPA**

Date of Report: **January, 21, 2020**

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- Photo 3: View to the northeast toward the school entrance road. The landscape rises to the north.
- Photo 4: The western side of the field is bordered with a chain-link fence. Bleachers and a storage structure are also located near the field. View to the south.
- Photo 5: View to the east toward the location of the proposed bathroom addition. This portion of the school was added c. 1995.
- Photo 6: View to the northeast of the location of the proposed bathroom addition.

ASSESSMENT OF ARCHAEOLOGICAL POTENTIAL

1.0 TOMPKINS FIELD DRAINAGE IMPROVEMENTS & BATHROOM ADDITION PROJECT

In January of 2020, Hudson Valley Cultural Resource Consultants (HVCRC),) was retained by the Chazen Companies to complete an Assessment of Archaeological Potential for the proposed Tompkins Field Drainage Improvements and a Bathroom Addition at the North Salem High School in the Town of North Salem, Westchester County, New York. An initial review of the project location indicates that it has been profoundly disturbed by the construction of the sports field, and the existing school facility.

The background research, as well as the cultural and environmental overviews were completed by Beth Selig, MA, RPA, President and Principal Investigator with HVCRC. Ms. Selig has a Master's degree from SUNY Empire State College and has more than 15 years of experience in the CRM/Archaeology industry.

The purpose of this Assessment is to determine whether previously identified cultural resources (historic and archeological sites) are located within the boundaries of the proposed project, and to evaluate the potential for previously unidentified cultural resources to be located within the boundaries of the Project Area of Potential Effect (APE). All work was completed in accordance with the *Standards for Cultural Resource Investigations and the Curation of Archeological Collections published by the New York Archeological Council (NYAC)* and recommended for use by New York State Office of Parks, Recreation and Historic Preservation (OPRHP). The report has been prepared according to New York State OPRHP's *Phase 1 Archeological Report Format Requirements*, established in 2005.

The proposed improvements to Tompkins Field include the installation of drains in a herringbone pattern, underneath the surface of the field. These drains will be covered with a sand and gravel combination to allow for sufficient water movement into the drains. New sod or reseeding will take place on the surface of the field. Additional drainage culverts will be installed around the perimeter of the field.

The proposed bathroom addition consists of a small (670 sq. ft.) addition that will house four new single occupant bathrooms. This addition is proposed on the western wall of the school, in a small alcove created by the southern wing of the structure. The ground surface in this location is currently partially covered with asphalt.

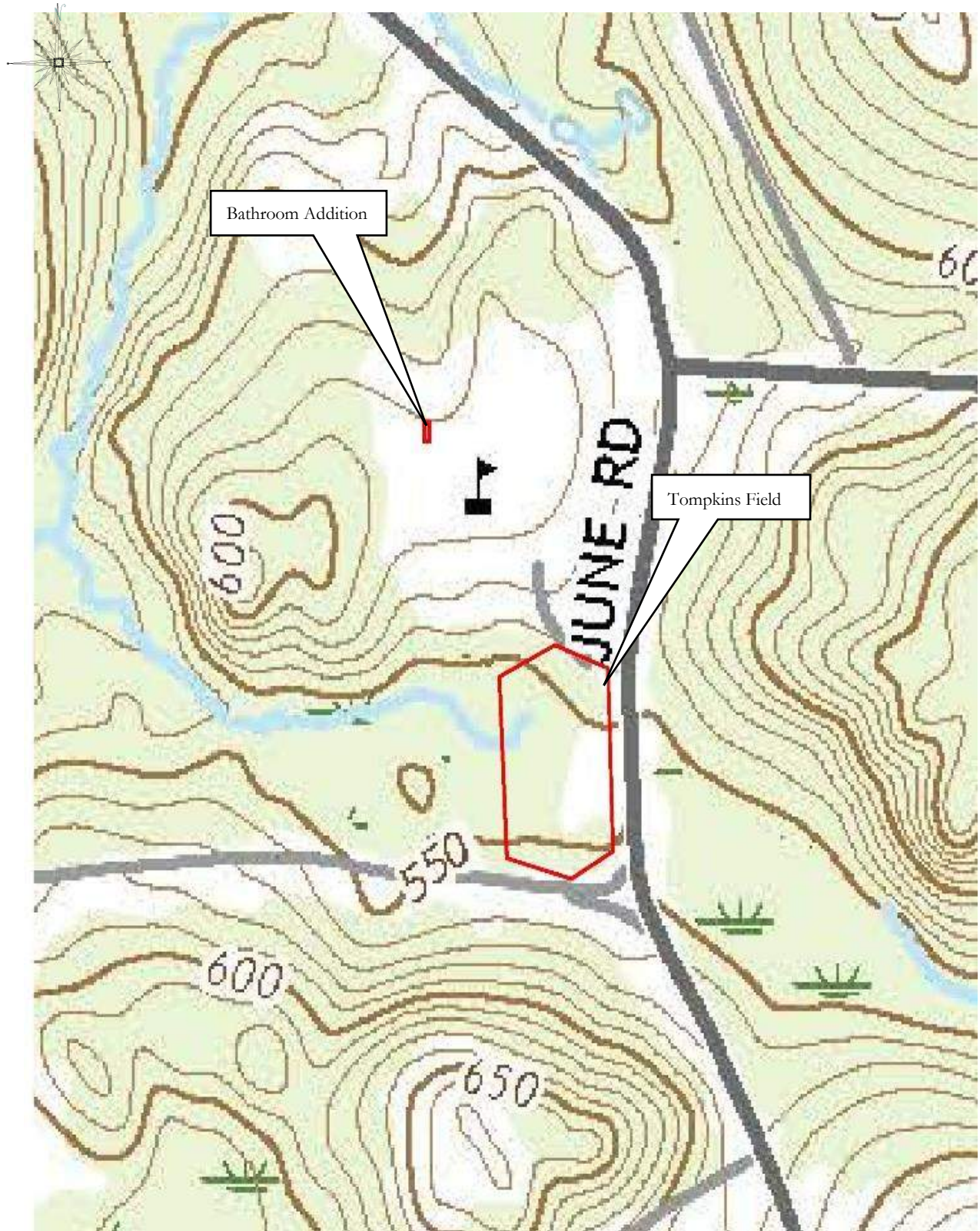


Figure 1: 2019 Peach Lake, NY USGS Topographical Quadrangle. (Source: USGS.gov). Scale: 1"=450'.



Figure 2: 2018 Aerial Image showing the locations of the proposed improvement areas. (Source: Google Earth). Scale: 1"= 215'.

2.0 SITE DESCRIPTION

The proposed undertaking includes improvements to an existing drainage system, within an existing athletic field (Tompkins Field). The scope of work includes adding a small addition to the western elevation of the school building to create additional bathroom spaces. These proposed tasks are located in areas that have been previously disturbed. The landscape within the sports field has been dug out, graded and leveled, with drainage lines installed underneath the field surface. The landscape adjacent to the High School building has been disturbed through the construction of the building, and addition in the late twentieth century, and the leveling of the landscape for basketball courts.

On January 13, 2020 the existing conditions within these areas were assessed and photographed. A surface reconnaissance was completed within the sports field, and around the perimeter of the building. The land surface within the existing athletic field (Tompkins Field) consists of a grass field that is mown and level, surrounded by a composite rubber surface. The field is bordered to the south by wetlands and to the north by a small slope that leads up to the school building and parking lot.

In the location of the proposed Bathroom Addition, the landscape has been graded. This area is also partially covered with asphalt for basketball courts. The landscape bordering the basketball courts has been graded and leveled, and is used by the school for student recess activities.

3.0 ENVIRONMENTAL CONDITIONS

The elevation of Tompkins Field is 553 feet (168.5 m) Above Mean Sea Level (AMSL), and the elevation of the proposed addition is 570 feet (173.7 m) AMSL.

SOILS

The characteristics of the soils within an area have an important impact on the potential for the presence of cultural material, since the types of soils present affected the ability of an area to support human populations. The Natural Resources Conservation Service indicates that the soils within the project area are well drained Urban Land, and poorly drained sandy loam and muck.

| Table 1: Soil Unit Descriptions for the project area | | | | | |
|-------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------|--------------------------------|
| Map Unit Symbol | Map Unit Name | Soil Horizons & Texture | Slope | Drainage | Landform |
| LcB | Leicester loam | H1 - 0 to 8 inches: loam H2 - 8 to 26 inches: sandy loam C - 26 to 60 inches: sandy loam | 3 to 8% | Somewhat poorly drained | Hills, ridges, till plains |
| NcA | Natchaug muck | Oa1 - 0 to 12 inches: muck Oa2 - 12 to 31 inches: muck 2Cg1 - 31 to 39 inches: silt loam 2Cg2 - 39 to 79 inches: fine sandy loam | 0 to 2% | Very poorly drained | Depressions |
| UhB | Urban land-Charlton complex | M - 0 to 10 inches: cemented material | 3 to 8% | Varied | Made lands |
| | | Ap - 0 to 7 inches: fine sandy loam Bw - 7 to 22 inches: gravelly fine sandy loam C - 22 to 65 inches: gravelly fine sandy loam | | Well drained | Hills, ground moraines, ridges |



Figure 3: Aerial Image showing soil units within the proposed improvement areas. (Source: Natural Resources Conservation Service) Scale 1" = 215'.



Photo 1: View to the south of Tompkins Field. Drainage culverts are located along the edge of the track.



Photo 2: The track surface is a rubber composite. View to the southeast.



Photo 3: View to the northeast toward the school entrance road. The landscape rises to the north.



Photo 4: The western side of the field is bordered with a chain-link fence. Bleachers and a storage structure are also located near the field. View to the south.

4.0: PRECONTACT AND HISTORIC CONTEXT

PRECONTACT SITE RESEARCH

During the Paleoindian period, mobile bands of hunter-gatherers occupied what is now New York State. These bands exploited the resources of the landscape by hunting game and gathering plants. Paleoindian sites have been identified in the upland regions a short distance from the Hudson River. Subsistence patterns in this period revolved primarily around hunting. The early inhabitants of the area moved seasonally along major river valleys, keeping to the elevated terraces. In the lower Hudson Valley area, information on Paleoindian sites is limited. The Piping Rock site in the Village of Ossining, a Clovis Point recovered from the Purdy House in White Plains and a fluted point recovered at Croton Point are among the few Paleoindian finds that have been reported in Westchester County (Ritchie 1973).

With the lowering of the water table during the Archaic period, subsistence methods and technologies changed in response to climatic warming. This was accompanied by an increase in vegetation density and diversity, changing faunal migrations and a change in sea levels (Sirkin 1977). The Archaic Period was likely a time of incipient sedentism among the inhabitants of the area. With the increase in vegetation and the establishment of a mixed deciduous forest, the population density also increased.

Changes in settlement and subsistence patterns that occurred during the Late Archaic period reflect an increased focus on coastal and riverine resources. Ground stone food processing tools are more common, reflecting an increase in processed plant resources in the diet. Projectile points commonly found at Late Archaic sites include narrow stemmed, broad stemmed and side notched types. The Laurentian Tradition of the Late Archaic is the most represented throughout New York State, and subdivided into a series of phases: Vergennes, Vosburg, Sylvan Lake, River and Snook Kill. Archaic period sites have been identified along the banks of the Hudson River.

The Woodland period is distinguished from the Archaic in part, by the use of ceramics. Horticulture, although practiced in other parts of North America at an earlier date, does not appear in the Hudson River Valley until c. 1000 AD. The soil and water requirements of the cultivation of maize, beans and squash created a marked change in the pattern of land use and the selection of locations for villages. It was no longer necessary for the entire group to move from place to place following a seasonal round of migration fueled by fluctuating sources of food. Cord marked ceramics became common during the Middle Woodland period, and incised vessels, many with a collar area, are typical of Late Woodland cultures. In central and western New York State, the Late Woodland stage is known as the Owasco; no evidence for the Owasco culture has been identified in the Hudson Valley.

Indigenous people in the region were mainly Algonkian. During the first half of the seventeenth century, the Algonkian tribes sold approximately 25 tracts of land to the Dutch, including lands within Westchester County. These land transactions between the early colonists and the native populations were often ambiguous, causing disputes to arise. A peace treaty was established in 1645 to settle the land disputes (Cochran-Swanson and Green-Fuller 1982).

HISTORIC CONTEXT

At the time of its formation, Westchester County included nearly all of the southern part of New York that bordered the Hudson River. The land that now comprises Westchester County was first explored in 1524 by

Verrazano and later by Henry Hudson. The Dutch first settled the region on behalf of the Dutch West India Company (Cochran-Swanson and Green-Fuller 1982). The first recorded settlers, William Truesdale and Samuel Tuttle, purchased land in what is now the town of Salem. During the late eighteenth century Lewisboro consisted of small farms, subdivided from lands belonging to Cortland Manor. This sizeable tract, encompassing a considerable portion of this part of the lower Hudson Valley, was granted to Stephanus Van Cortlandt prior to 1700 and was first populated by tenant farmers (Shonnard and Spooner 1900).

By the late eighteenth century many of the county's inhabitants had suffered the loss of personal property such as horses, livestock, and dwellings due to the effects of the Revolutionary War (Shonnard and Spooner 1900). Despite the hardships of the Revolutionary War, Westchester County had the largest population in all of New York during the late eighteenth century (Cochran-Swanson and Green-Fuller 1982).

By the early 1800s Westchester County roads had been improved in order to facilitate the shipping of agricultural goods throughout the county. The Westchester Turnpike was established between Pelham and New Rochelle. The establishment of brickyards, iron foundries, and shoemaking factories all added to the expansion of local industries during the early nineteenth century. According to the 1855 census, Westchester County had 27 blacksmith shops, 52 boot and shoe shops, 33 brick manufacturers, 29 grist mills, six bakeries, two breweries and seven marble factories (French 1860).

In the 1840s, railroads became established within the region. Employment opportunities made possible by construction of the railroads drew thousands of Italians, eastern Europeans and Irish laborers to the area. In 1860, Westchester County's population was 99,000, and continual growth eventually brought the population to 300,000 by 1920 (Cochran-Swanson and Green-Fuller 1982).

The North Salem Middle School and High School is located in area that was settled in the late eighteenth century. The early settlers were primarily farmers. During the early nineteenth century, the roads in the vicinity generally followed the shoreline of the Titicus River, prior to its conversion to the Titicus Reservoir. Bloomer Road, formerly School House Road, connected Salem Center to the Village of Brewster (Trager 1976). This route, along with June Road and Route 24, were realigned in the early twentieth century. In the mid-nineteenth century, the intersection of Bloomer Road, June Road and Starr Ridge Road was known as Pine Tree Corners, and had a boarding house and school house along with several residences and farms.

In the late eighteenth century, Pine Tree School house was located on the northern side of the intersection of present day June Road and Hardscrabble Road. This school house was later built at the intersection of Starr Lea and Star Ridge Road. This school house was used until the early twentieth century, when the school in Purdy's was constructed. The current North Salem Middle and High school building was constructed in 1962 (Trager 1976).

5.0: RECORDED ARCHAEOLOGICAL SITES AND SURVEYS

To gather information on the history of the Project APE and the surrounding region HVCRC reviewed the combined site files of the New York State Office of Parks, Recreation, and Historic Preservation (OPRHP) and the New York State Museum (NYSM) for information regarding previously recorded archeological sites within one mile (1.6 km) of the Project APE. HVCRC also consulted regional Native American sources (e.g. Beauchamp 1900; Parker 1920; Ritchie 1980; Ritchie and Funk 1973) for descriptions of regional archeological sites.

PREVIOUSLY RECORDED ARCHAEOLOGICAL SITES

A single previously identified archaeological site has been identified within a one mile radius of the Project APE. The Peach Lake Historic Hotel Site 2 is located 5200' (1585.3 m) east of the Project APE. This is the location of a nineteenth century hotel that was later converted to a residential structure. This location will not be impacted by the proposed undertaking.

PREVIOUSLY COMPLETED ARCHAEOLOGICAL SURVEYS

As part of the research for this report, surveys completed for projects in the general area were consulted. More than four surveys have been completed within a one mile radius of the Project APE. In December of 2019 a Phase 1A Literature review and sensitivity assessment and Phase 1B Archaeological Field Reconnaissance Survey was completed for the Proposed Athletic Field, west of the existing school building. This survey investigated an undisturbed wooded area, but did not identify any cultural resources.

NATIONAL REGISTER ELIGIBLE/LISTED SITES

The National Register Database and OPRHP files were reviewed to identify structures on or in the vicinity of the Project APE that have been listed on the National Register of Historic Places or identified as National Register Eligible. Two historic properties have been identified within a one half mile radius of the Project APE. The Elias Titus House and Greenvale Farm are located to the south of the Project APE. These properties will not be impacted by the proposed undertaking.

6.0: SENSITIVITY ASSESSMENT

An assessment of whether significant cultural resources are likely to be present within the project area must consider what is known of the history of the area, including likely locations of archaeological sites and proximity to known sites. In addition, the history of the immediate area, including whether any historic structures or features are known to exist within the project area boundaries, must be considered. Prior disturbance to the landscape and underlying soil stratigraphy are also considered in this assessment.

In January of 2020 a review of the background information and a surface reconnaissance was completed for the Tompkins Field Drainage Improvements and Bathroom Addition at the North Salem High School in the Town of North Salem, Westchester County, New York. The project area includes 4.87 acres of land that has been previously disturbed during prior construction of the school and athletic field. No previously recorded archaeological sites are located within or near the project area boundaries.

In addition, in December 2019 a Phase 1A Literature Review and Sensitivity Assessment and Phase 1B Archaeological Field Reconnaissance Survey was completed to the west of the existing school building for the a new athletic field. This survey did not identify any cultural resources or historic properties.

7.0: CONCLUSIONS AND RECOMMENDATIONS

Due to the extensive changes to the soils within the Tompkins Field Drainage Improvements and Bathroom Addition location, including previously installed subsurface infrastructure and existing impervious surfaces, it is the opinion of Hudson Valley Cultural Resource Consultants that there is no potential for intact archaeological deposits within these locations and that no additional archaeological investigation of the for the proposed improvements is warranted.



Photo 5: View to the east toward the location of the proposed bathroom addition. This portion of the school was added c. 1995.



Photo 6: View to the northeast of the location of the proposed bathroom addition.

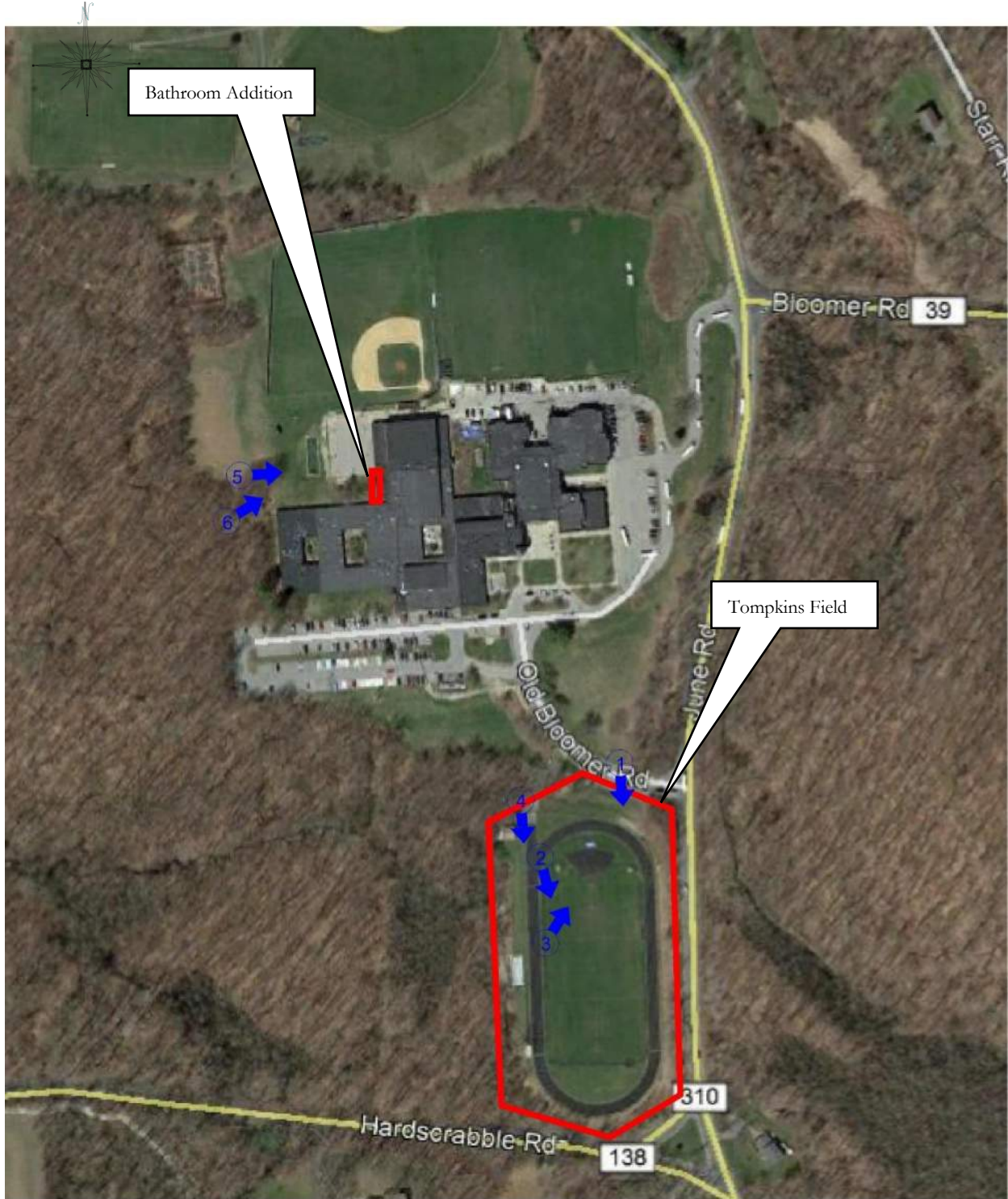


Figure 4: 2018 Aerial Image showing the locations of the proposed improvement areas. (Source: Google Earth). Scale: 1"= 215'.

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**PHASE 1A LITERATURE SEARCH AND SENSITIVITY ASSESSMENT
NORTH SALEM CSD ATHLETIC FIELD PROJECT**

NORTH SALEM, WESTCHESTER COUNTY, NEW YORK

PREPARED FOR:

**THE CHAZEN COMPANIES
21 FOX STREET
POUGHKEEPSIE, NY 12601**



**HUDSON VALLEY
CULTURAL RESOURCE CONSULTANTS, LTD.
3 LYONS DRIVE POUGHKEEPSIE, NY 12601**

NOVEMBER 2019

MANAGEMENT SUMMARY

SHPO Project Review Number (if available):

Involved State and Federal Agencies: **SEQR, DEC**

Phase of Survey: **Phase 1A Literature Search & Sensitivity Assessment**

Location Information:

Location: **230 June Road**

Minor Civil Division: **Town of North Salem**

County: **Westchester County**

Survey Area (Metric & English)

Length: **695'/211.8 m**

Width: **465'/141.7 m**

Depth (when appropriate):

Number of Acres: **±6.8 acres (2.75 hectares)**

Number of Square Meters & Feet Excavated (Phase II, Phase III only): **N/A**

Percentage of the Site Excavated (Phase II, Phase III only):

USGS 7.5 Minute Quadrangle Map: **Peach Lake, New York 2019**

Results of Archaeological Survey

Number & name of precontact sites identified:

Number & name of historic sites identified: **0**

Number & name of sites recommended for Phase II/Avoidance: **N/A**

Results of Architectural Survey

Number of buildings/structures/cemeteries within Project APE:

Number of buildings/structures/cemeteries adjacent to Project APE:

Number of previously determined NR listed or eligible buildings/structures/cemeteries/districts: **0**

Number of identified eligible buildings/structures/cemeteries/districts:

Report Author (s): **Beth Selig, MA, RPA,**

Date of Report: **November 20, 2019**

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I. PHASE 1A LITERATURE SEARCH AND SENSITIVITY ASSESSMENT

A. NORTH SALEM CSD ATHLETIC FIELD PROJECT DESCRIPTION

In November of 2019, Hudson Valley Cultural Resource Consultants (HVCRC) was retained by the Chazen Companies to complete a Phase 1A Literature Search and Sensitivity Assessment as part of the due diligence process for the proposed North Salem CSD Athletic Field in the Town of North Salem, Westchester County, New York. The Phase 1A survey includes the entirety of the area where improvements and new fields are proposed.

The purpose of the Phase 1 Cultural Resources Survey is to determine whether previously identified cultural resources (historic and archeological sites) are located within the boundaries of the proposed project, and to evaluate the potential for previously unidentified cultural resources to be located within the boundaries of the Project Area of Potential Effect (APE). All work was completed in accordance with the *Standards for Cultural Resource Investigations and the Curation of Archeological Collections published by the New York Archeological Council (NYAC)* and recommended for use by New York State Office of Parks, Recreation and Historic Preservation (OPRHP). The report has been prepared according to New York State OPRHP's *Phase 1 Archeological Report Format Requirements*, established in 2005.

The background research as well as the cultural and environmental overviews were completed by Beth Selig, MA, RPA, President and Principal Investigator with HVCRC. A project site visit was conducted on November 4, 2019 to observe and photograph existing conditions within the Project APE. The information gathered during the walkover reconnaissance is included in the relevant sections of the report.

The proposed North Salem CSD Athletic Field Project is located to the west of the existing North Salem High School building. The fields are proposed within a wooded area that is gently sloped and interspersed with areas of exposed bedrock and boulders. Overgrown and derelict tennis courts located in this area, west of the baseball fields. The wooded area is interspersed with small trails.

The proposed undertaking consists of a new sports field. The construction activities include the installation of stormwater basins, and creating pedestrian access from the existing parking lot. The new sports field will require grading and filling to create a level space to construct the turf fields. Drainage systems underneath the turf level are also proposed.

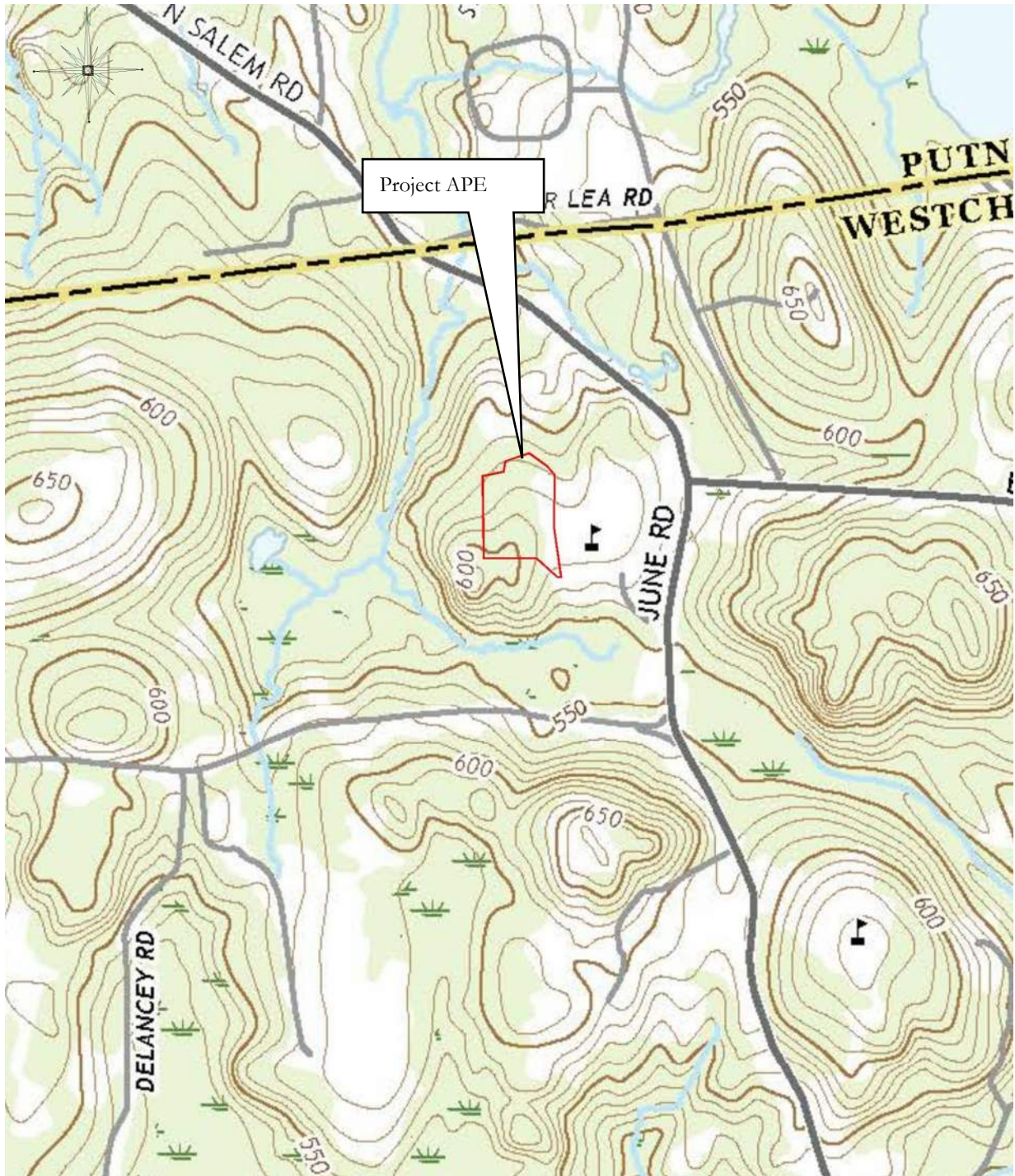


Figure 1: 2019 Peach Lake NY. USGS Topographic Quadrangle (Source: USGS.gov). Scale: 1" = 1050'.

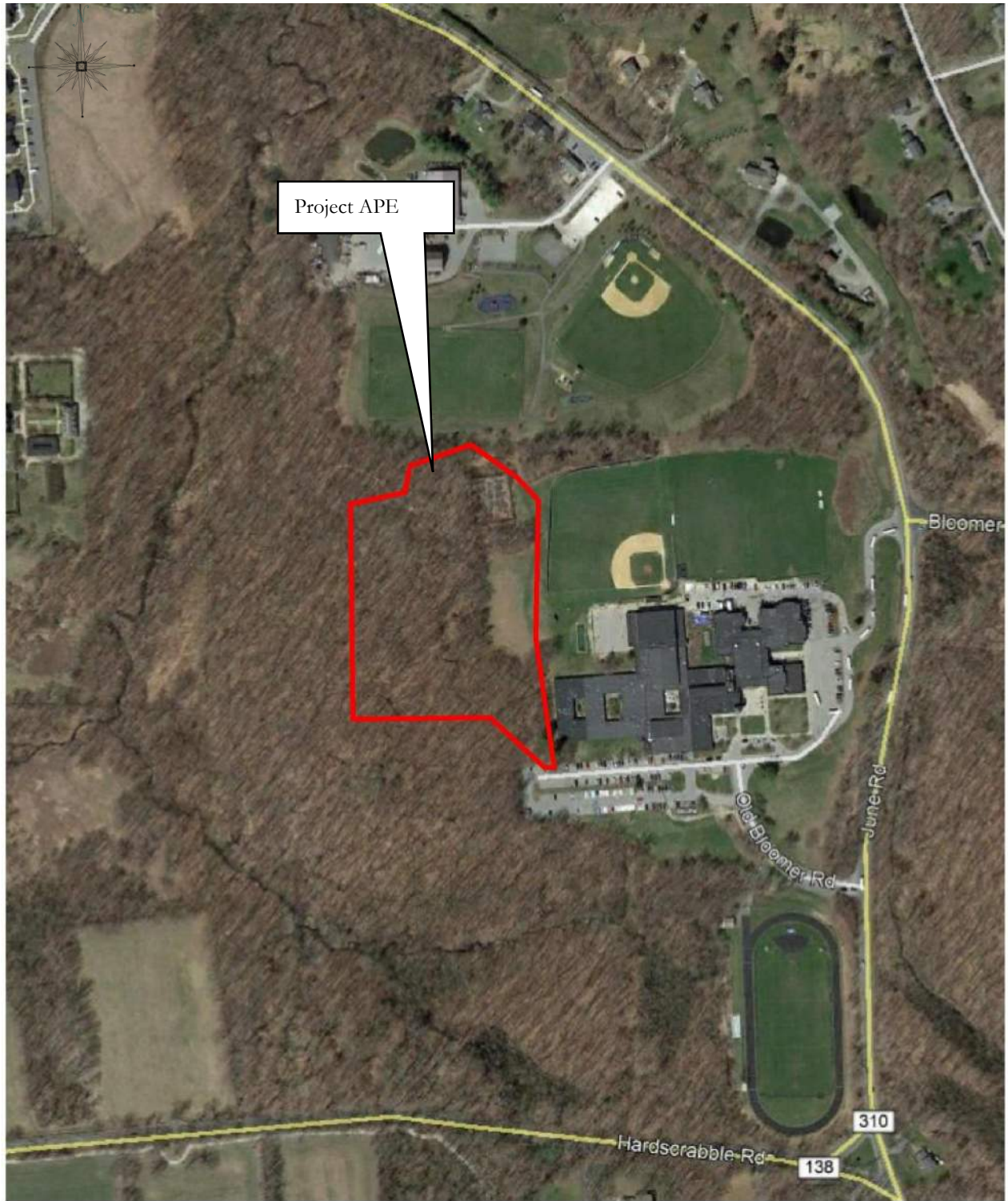


Figure 2: Aerial image showing the Project APE. Source: Google Earth (Scale: 1" = 390')

B. ENVIRONMENTAL CONDITIONS

The Project APE is primarily wooded with lawn areas located adjacent to the existing school. The elevation descends from the southeast to the northwest with the highest point of 600' (182.9 m) Above Mean Sea Level (AMSL) in the southeastern corner to 560' (170.7 m) AMSL along the northern boundary.

ECOLOGY

The Project APE lies within the Eastern Broadleaf Forest. This province is dominated by broadleaf deciduous trees featuring the drought-resistant oak-hickory varieties. The Northern reaches of the oak-hickory forest contain increasing numbers of maple, beech, and basswood (Bailey 1995).

GEOLOGY

The Project APE is situated within the Manhattan Prong physiographic province, which includes a portion of Staten Island, all of Manhattan Island, a small portion of western Long Island and most of Westchester County. The ridges and valleys trend north-northeast and south-southwest, giving the entire area a gently fluted surface of moderate relief. The topography is predominantly controlled by the bedrock, with superimposed glacial deposits, alluvial deposits and swamps being minor features. Glacial till, which is mostly sandy, lies over a highly irregular bedrock surface. Some kames occur in northern Westchester County, while outwash terraces are found along the Hudson River. Many swamps occur either in the poorly drained water-laid deposits or in pockets in the bedrock surface (NYS Geotechnical Report).

The surficial deposits overlying the bedrock of the Manhattan Prong consist of the following: till, till moraine, outwash sand and gravel, lacustrine sand, swamp, Barrier Island, ice contact deposits, fluvial sand and gravel, lacustrine delta, and artificial fill. These deposits are primarily glacial in origin, with the exception of the swamp, Barrier Island and artificial fill deposits. Glacial till is the most prevalent surficial deposit overlying the bedrock of the Manhattan Prong. Artificial fill is mostly of unknown and variable composition. Fill is usually added to extend land surface into a body of water or to fill in swampy areas to provide fixed land for building.

DRAINAGE

Drainage on the site is into the wetlands located to the south and southeast. These wetlands drain to the southeast to large wetland areas and the Titicus Reservoir.

SOILS

Soil surveys provide a general characterization of the types and depths of soils that are found in an area. The characteristics of the soils within the Project APE have an important impact on the potential for the presence of cultural material, since the types of soils present affect the ability of an area to support human populations. The Soil Survey's mapped boundaries are considered approximate, as they generally correspond poorly to the actual boundaries of landforms and soils types within an area. The Natural Resources Conservation Service indicates that the soils within the Project APE are well drained gravelly fine sandy loams (Table 1).



Figure 3: Aerial Image showing soil units within the Project APE. (Source: Natural Resources Conservation Service.) Scale: 1"=150'.

Table 1: Soil Unit Descriptions (Natural Resources Conservation Service)

| Map Unit Symbol | Map Unit Name | Soil Horizons & Texture | Slope | Drainage | Landform |
|-----------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|--------------------------------|
| ChB | Charlton fine sandy loam | Ap - 0 to 7 inches: fine sandy loam Bw - 7 to 22 inches: gravelly fine sandy loam C - 22 to 65 inches: gravelly fine sandy loam | 3 to 8% | Well drained | Ridges, hills, ground moraines |
| CrC | Charlton-Chatfield complex | Oe - 0 to 2 inches: moderately decomposed plant material A - 2 to 4 inches: fine sandy loam Bw - 4 to 27 inches: gravelly fine sandy loam C - 27 to 65 inches: gravelly fine sandy loam Oi - 0 to 1 inches: slightly decomposed plant material A - 1 to 2 inches: fine sandy loam Bw - 2 to 30 inches: gravelly fine sandy loam 2R - 30 to 40 inches: bedrock | 3 to 15% | Well drained | Ridges, hills |
| CsD | Charlton-Chatfield complex | Oe - 0 to 2 inches: moderately decomposed plant material A - 2 to 4 inches: fine sandy loam Bw - 4 to 27 inches: gravelly fine sandy loam C - 27 to 65 inches: gravelly fine sandy loam | 15 to 35% | Well drained | Ridges, hills |
| UhB | Urban land-Charlton complex | M - 0 to 10 inches: cemented material | 3 to 8% | Varied | Made lands |
| | | Ap - 0 to 7 inches: fine sandy loam Bw - 7 to 22 inches: gravelly fine sandy loam C - 22 to 65 inches: gravelly fine sandy loam | | Well drained | Hills, ground moraines, ridges |



Photo 1: The Project APE is located to the west of the existing high school. View to the north.



Photo 2: Trails are located within the wooded area to the west of the school. View to the west.



Photo 3: Exposed bedrock and large boulders are located within and adjacent to the Project APE. View to the southwest.



Photo 4: Overgrown and derelict tennis courts are located within the northern portion of the Project APE. View to the north.



Photo 5: Lawn areas and ball fields are located to the east of the Project APE. View to the north.



Photo 6: View to the northwest toward the wooded areas of the Project APE.

C. RECORDED ARCHAEOLOGICAL SITES AND SURVEYS

To gather information on the history of the Project APE and the surrounding region HVCRC reviewed the combined site files of the New York State Office of Parks, Recreation, and Historic Preservation (OPRHP) and the New York State Museum (NYSM) for information regarding previously recorded archeological sites within one mile (1.6 km) of the Project APE. HVCRC also consulted regional Native American sources (e.g. Beauchamp 1900; Parker 1920; Ritchie 1980; Ritchie and Funk 1973) for descriptions of regional archeological sites.

PREVIOUSLY RECORDED ARCHAEOLOGICAL SITES

A single previously identified archaeological site has been identified within a one mile radius of the Project APE. The Peach Lake Historic Hotel Site 2 is located 5200' (1585.3 m) east of the Project APE. This is the location of a nineteenth century hotel that was later converted to a residential structure. This location will not be impacted by the proposed undertaking.

PREVIOUSLY COMPLETED ARCHAEOLOGICAL SURVEYS

As part of the research for this report, surveys completed for projects in the general area were consulted. More than four surveys have been completed within a one mile radius of the Project APE. These surveys were completed for both municipal undertakings as well as residential developments. These surveys have identified historic sites within the general vicinity of the Project APE.

D. NATIVE AMERICAN CONTEXT

During the Paleoindian period, mobile bands of hunter-gatherers occupied what is now New York State. These bands exploited the resources of the landscape by hunting game and gathering plants. Paleoindian sites have been identified in the upland regions a short distance from the Hudson River. Subsistence patterns in this period revolved primarily around hunting. The early inhabitants of the area moved seasonally along major river valleys, keeping to the elevated terraces. In the lower Hudson Valley area, information on Paleoindian sites is limited. The Piping Rock site in the Village of Ossining, a Clovis Point recovered from the Purdy House in White Plains and a fluted point recovered at Croton Point are among the few Paleoindian finds that have been reported in Westchester County (Ritchie 1973).

With the lowering of the water table during the Archaic period, subsistence methods and technologies changed in response to climatic warming. This was accompanied by an increase in vegetation density and diversity, changing faunal migrations and a change in sea levels (Sirkin 1977). The Archaic Period was likely a time of incipient sedentism among the inhabitants of the area. With the increase in vegetation and the establishment of a mixed deciduous forest, the population density also increased.

Changes in settlement and subsistence patterns that occurred during the Late Archaic period reflect an increased focus on coastal and riverine resources. Ground stone food processing tools are more common, reflecting an increase in processed plant resources in the diet. Projectile points commonly found at Late Archaic sites include narrow stemmed, broad stemmed and side notched types. The Laurentian Tradition of the Late Archaic is the most represented throughout New York State, and subdivided into a series of phases: Vergennes, Vosburg, Sylvan Lake, River and Snook Kill. Archaic period sites have been identified along the banks of the Hudson River.

The Woodland period is distinguished from the Archaic in part, by the use of ceramics. Horticulture, although practiced in other parts of North America at an earlier date, does not appear in the Hudson River Valley until c. 1000 AD. The soil and water requirements of the cultivation of maize, beans and squash created a marked change in the pattern of land use and the selection of locations for villages. It was no longer necessary for the entire group to move from place to place following a seasonal round of migration fueled by fluctuating sources of food. Cord marked ceramics became common during the Middle Woodland period, and incised vessels, many with a collar area, are typical of Late Woodland cultures. In central and western New York State, the Late Woodland stage is known as the Owasco; no evidence for the Owasco culture has been identified in the Hudson Valley.

Indigenous people in the region were mainly Algonkian. During the first half of the seventeenth century, the Algonkian tribes sold approximately 25 tracts of land to the Dutch, including lands within Westchester County. These land transactions between the early colonists and the native populations were often ambiguous, causing disputes to arise. A peace treaty was established in 1645 to settle the land disputes (Cochran-Swanson and Green-Fuller 1982).

E. HISTORIC CONTEXT

The following discussion of historic and cartographic research provides information concerning the likelihood of encountering Map Documented Structures (MDS) and other intact historic cultural resources within the boundaries of the Project APE. HVCRC consulted historical documents and maps available at the Library of Congress, David Rumsey Cartography Associates and the New York Public Library.

HISTORIC BACKGROUND

At the time of its formation, Westchester County included nearly all of the southern part of New York that bordered the Hudson River. The land that now comprises Westchester County was first explored in 1524 by Verrazano and later by Henry Hudson. The Dutch first settled the region on behalf of the Dutch West India Company (Cochran-Swanson and Green-Fuller 1982). The first recorded settlers, William Truesdale and Samuel Tuttle, purchased land in what is now the town of Salem. During the late eighteenth century Lewisboro consisted of small farms, subdivided from lands belonging to Cortland Manor. This sizeable tract, encompassing a considerable portion of this part of the lower Hudson Valley, was granted to Stephanus Van Cortlandt prior to 1700 and was first populated by tenant farmers (Shonnard and Spooner 1900).

By the late eighteenth century many of the county's inhabitants had suffered the loss of personal property such as horses, livestock, and dwellings due to the effects of the Revolutionary War (Shonnard and Spooner 1900). Despite the hardships of the Revolutionary War, Westchester County had the largest population in all of New York during the late eighteenth century (Cochran-Swanson and Green-Fuller 1982).

By the early 1800s Westchester County roads had been improved in order to facilitate the shipping of agricultural goods throughout the county. The Westchester Turnpike was established between Pelham and New Rochelle. The establishment of brickyards, iron foundries, and shoemaking factories all added to the expansion of local industries during the early nineteenth century. According to the 1855 census, Westchester County had 27 blacksmith shops, 52 boot and shoe shops, 33 brick manufacturers, 29 grist mills, six bakeries, two breweries and seven marble factories (French 1860).

In the 1840s, railroads became established within the region. Employment opportunities made possible by construction of the railroads drew thousands of Italians, eastern Europeans and Irish laborers to the area. In

1860, Westchester County's population was 99,000, and continual growth eventually brought the population to 300,000 by 1920 (Cochran-Swanson and Green-Fuller 1982).

The North Salem Middle School and High School is located in area that was settled in the late eighteenth century. The early settlers were primarily farmers. During the early nineteenth century, the roads in the vicinity generally followed the shoreline of the Titicus River, prior to its conversion to the Titicus Reservoir. Bloomer Road, formerly School House Road, connected Salem Center to the Village of Brewster (Trager 1976). This route, along with June Road and Route 24, were realigned in the early twentieth century. In the mid-nineteenth century, the intersection of Bloomer Road, June Road and Starr Ridge Road was known as Pine Tree Corners, and had a boarding house and school house along with several residences and farms.

In the late eighteenth century, Pine Tree School house was located on the northern side of the intersection of present day June Road and Hardscrabble Road. This school house was later built at the intersection of Starr Lea and Star Ridge Road. This school house was used until the early twentieth century, when the school in Purdy's was constructed. The current North Salem Middle and High school building was constructed in 1962 (Trager 1976).

CARTOGRAPHIC RESEARCH

HVCRC examined historical maps of Westchester County to identify possible structures, previous road alignments and other landscape features or alterations that could affect the likelihood that archeological and/or historic resources could be located within the Project APE. These maps are included in this report, with the boundaries of the Project APE and Project APE superimposed. Nineteenth century maps frequently lack the accuracy of location and scale present in modern surveys. As a result of this common level of inaccuracy on the historic maps, the location of the Project APE is drafted relative to the roads, structures, and other features as they are drawn, and should be regarded as approximate. The historic maps included in this report depict the sequence of road construction and settlement/development in the vicinity of the Project APE.

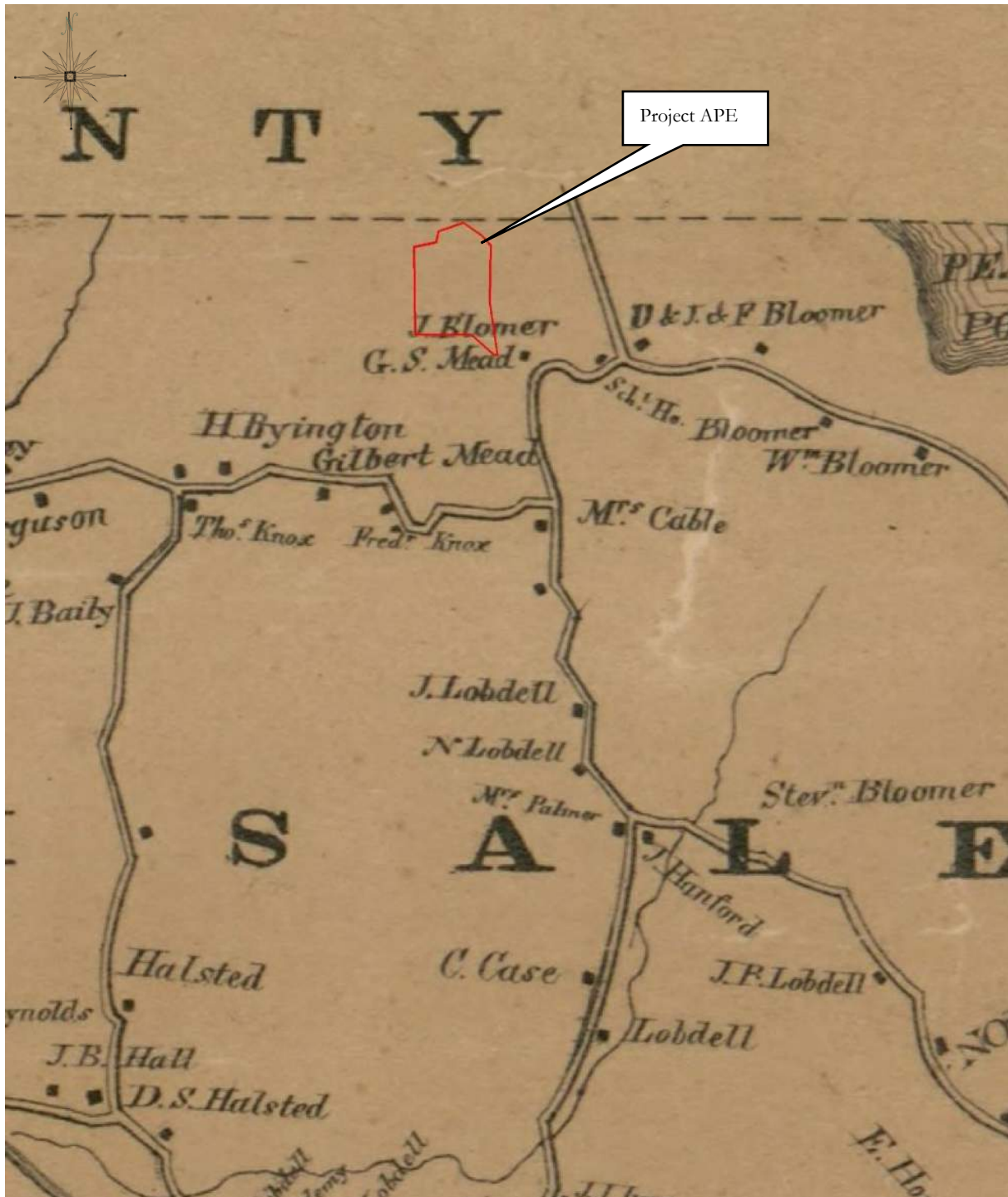


Figure 4: 1859 F.C. Merry *Atlas of Westchester County*. (Source: Library of Congress) Scale: 1"=930'.

The earliest map examined for this report is the 1859 Merry *Atlas of Westchester County, New York*. This map shows the Project APE to the west of Peach Pond, and Bloomer Road. This lands in the general vicinity are owned by J. Bloomer, and G. S. Mead. A school house is located to the southeast of the Project APE, at the intersection of Bloomer Road and June Road. There are no structures located within the Project APE boundaries.



Figure 5: 1868 F.W. Beers' *Atlas of Westchester County, Town of North Salem*. (Source: David Rumsey Cartography Associates) Scale: 1"=775'.

The 1868 Beers' *Atlas of Westchester County, New York* shows the Project APE located within the hamlet of Pine Tree Corners. The school house is shown to the east of the Project APE. The Project APE is located on lands owned by G. T. Mead whose estate is named Prospect. A barn and two other structures are located near June Road.

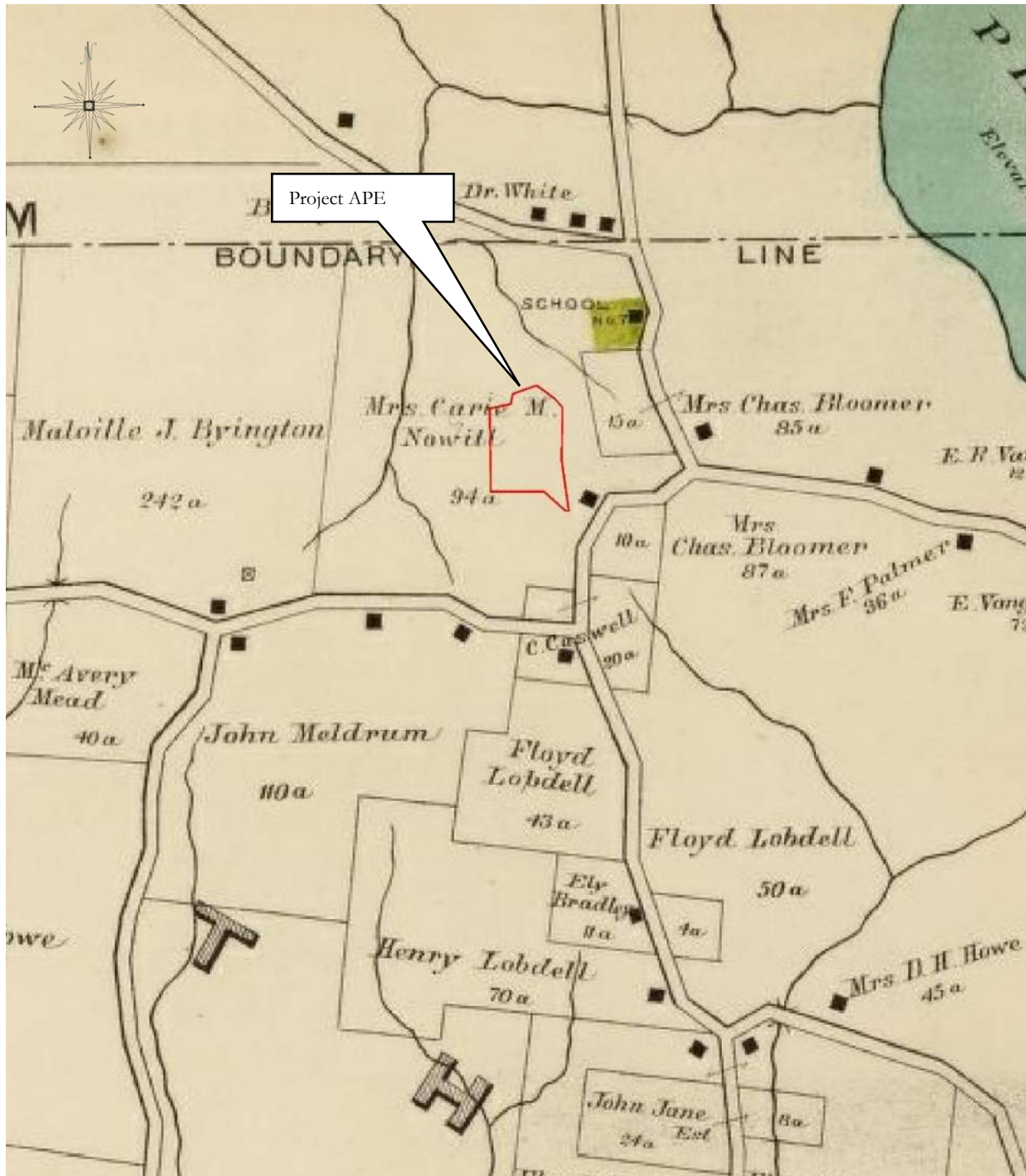


Figure 6: 1908 Hyde E. Belcher *Atlas of Westchester County*. (Source: David Rumsey Cartography Associates) Scale: 1"=1050'.

The 1908 Belcher *Atlas of Westchester County, New York* shows the Project APE is located on the lands Mrs. Carrie M. Nowill, who owns 94 acres. The school house, now identified as School No. 7, is located to the northeast of the Project APE. A single structure is shown near the southeastern corner of the APE, along June Road.

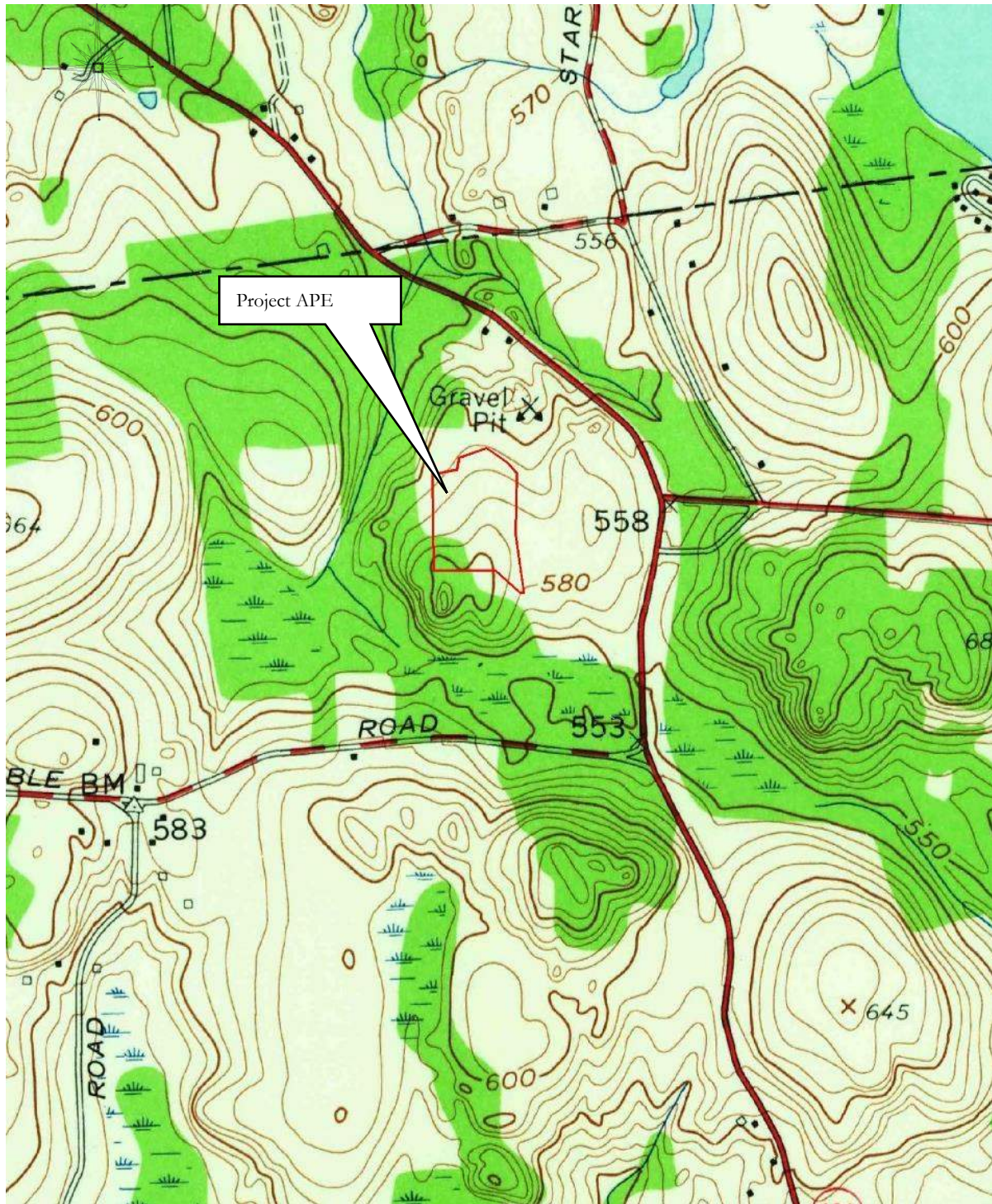


Figure 7: 1958 Peach Lake USGS Topographical Quadrangles. (Source: USGS.gov) Scale: 1"=930'.

The mid-twentieth century topographical map shows that the land on which the Project APE is located has been cleared, with slopes descending to the south and west. To the north of the Project APE is a gravel mine. By this time the roadways in the vicinity of the Project APE have been straightened and realigned. No structures are shown in the vicinity of the Project APE.

AERIAL REVIEW

To track the evolution of the structures and alteration of to the landscape within the Project APE, a series of aerial images have been examined and are included in the report.

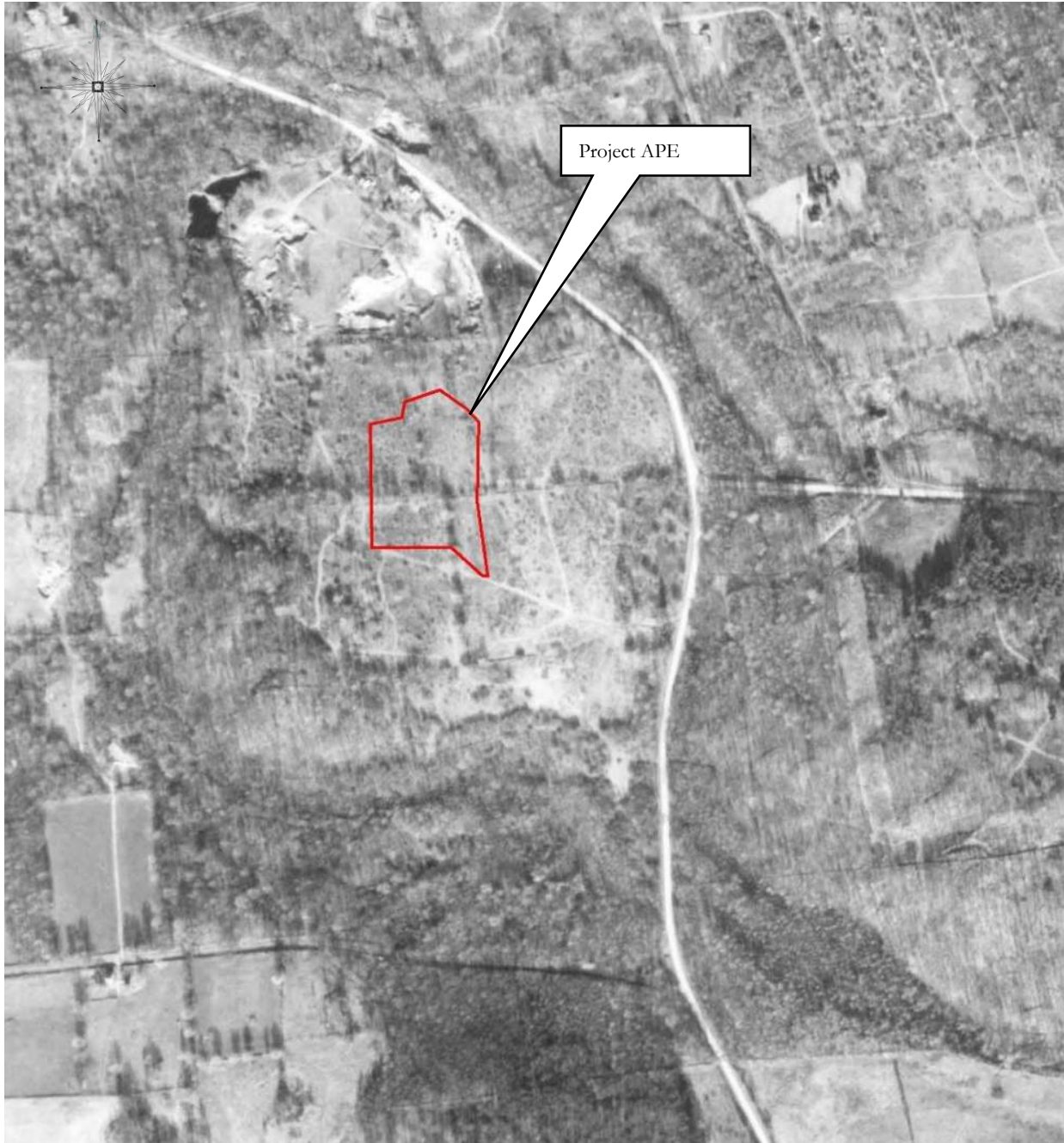


Figure 8: 1960 USGS Aerial Image. Fishkill, NY. (Source: Westchester County Aerial Access) Scale: 1"=715'.

In 1960, the Project APE consists of overgrown farm fields. Agricultural fields are located the western side of June Road. The aerial shows a series of trails and paths leading through the overgrown fields. To the north is a large gravel mine.

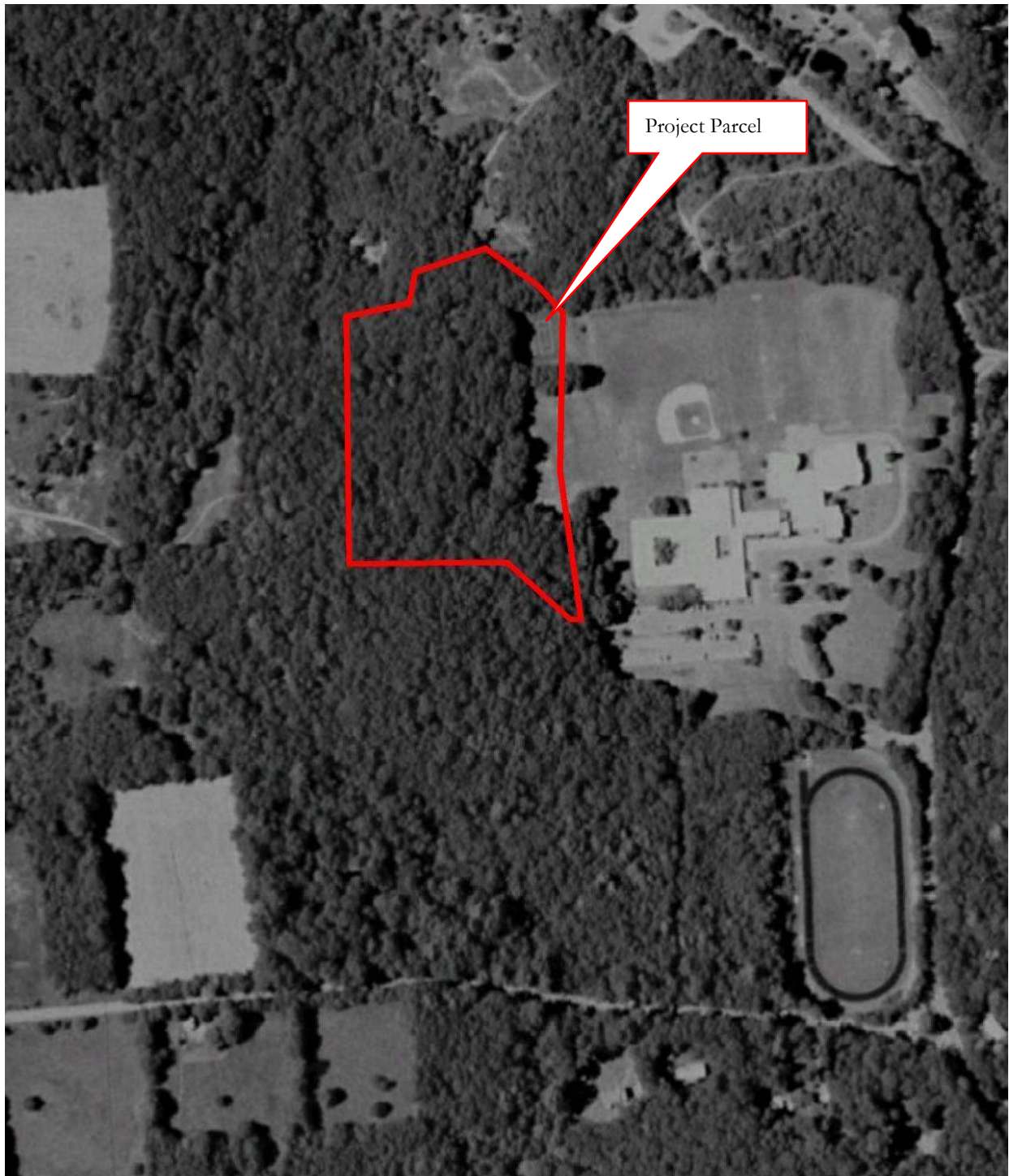


Figure 9: 1993 USGS Aerial Image. North Salem, NY. (Source: Google Earth) Scale: 1"=332'.

The 1993 aerial shows that the North Salem High School has been constructed to the east and southeast of the Project APE. The Project APE is wooded, with tennis courts located in the northwestern corner. The school building is smaller than its current configuration, with additions added at the end of the twentieth century.

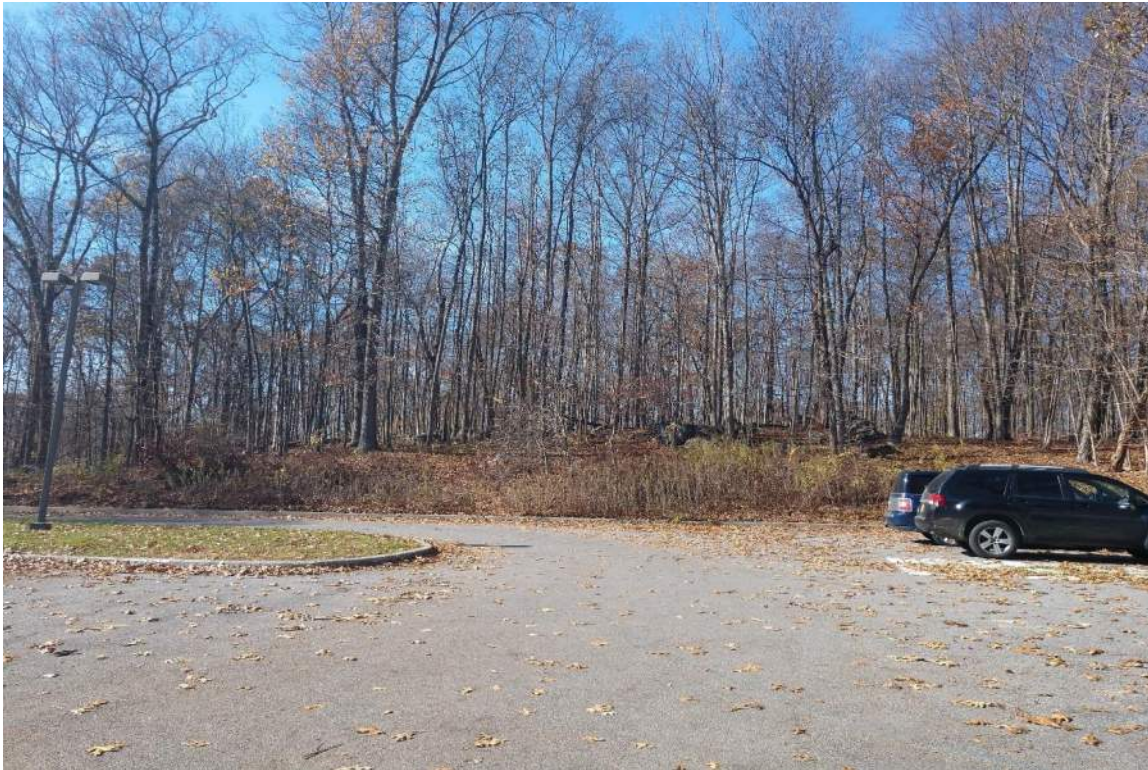


Photo 7: View to the west towards the Project APE, from the school parking lot.



Photo 8: Pedestrian access to the new fields is currently proposed on the southwestern side of the school. View to the east.



Photo 9: The wooded area is crossed with stone walls. Large boulders are located on the ground surface. View to the north.



Photo 10: View to the east from within the Project APE, towards the school.

E. NATIONAL REGISTER ELIGIBLE/LISTED SITES

The National Register Database and OPRHP files were reviewed to identify structures on or in the vicinity of the Project APE that have been listed on the National Register of Historic Places or identified as National Register Eligible. Two historic properties have been identified within a one half mile radius of the Project APE. The Elias Titus House and Greenvale Farm are located to the south of the Project APE. These properties will not be impacted by the proposed undertaking.

G. ASSESSMENT OF POTENTIAL CULTURAL RESOURCES

PRECONTACT PERIOD SENSITIVITY

Precontact period archaeological sensitivity of an area is based primarily on proximity to previously documented Precontact archeological sites, known Precontact period resources, and physiographic characteristics, such as topography and proximity to freshwater. The project's location, a short distance from wetland areas and the Titicus River and Reservoir, combined with the fact that undisturbed, and level terrain exists within the Project APE, makes this landscape moderate to moderately sensitive for precontact cultural resources.

HISTORIC SENSITIVITY

Careful examination of the historic and topographical maps available indicate that a large portion of the Project APE has been agricultural land for a significant portion of the nineteenth and twentieth centuries. The North Salem High School was constructed in 1962. Given the fact that nineteenth century structures are not located within or adjacent to the current Project APE, the historic sensitivity is considered to be moderate to low.

H. SUMMARY AND RECOMMENDATIONS

The environmental conditions present within the North Salem CSD Athletic Field APE indicate that the parcel is sensitive for precontact and historical cultural resources. It is therefore recommended that a Phase 1B Archaeological Field Reconnaissance Survey be undertaken within the location of the proposed development that has been assessed to have the potential to yield cultural resources. The Phase 1B Survey will be completed to determine whether cultural resources (historic and archeological sites) are located within the boundaries of the proposed project Area of Potential Effect.

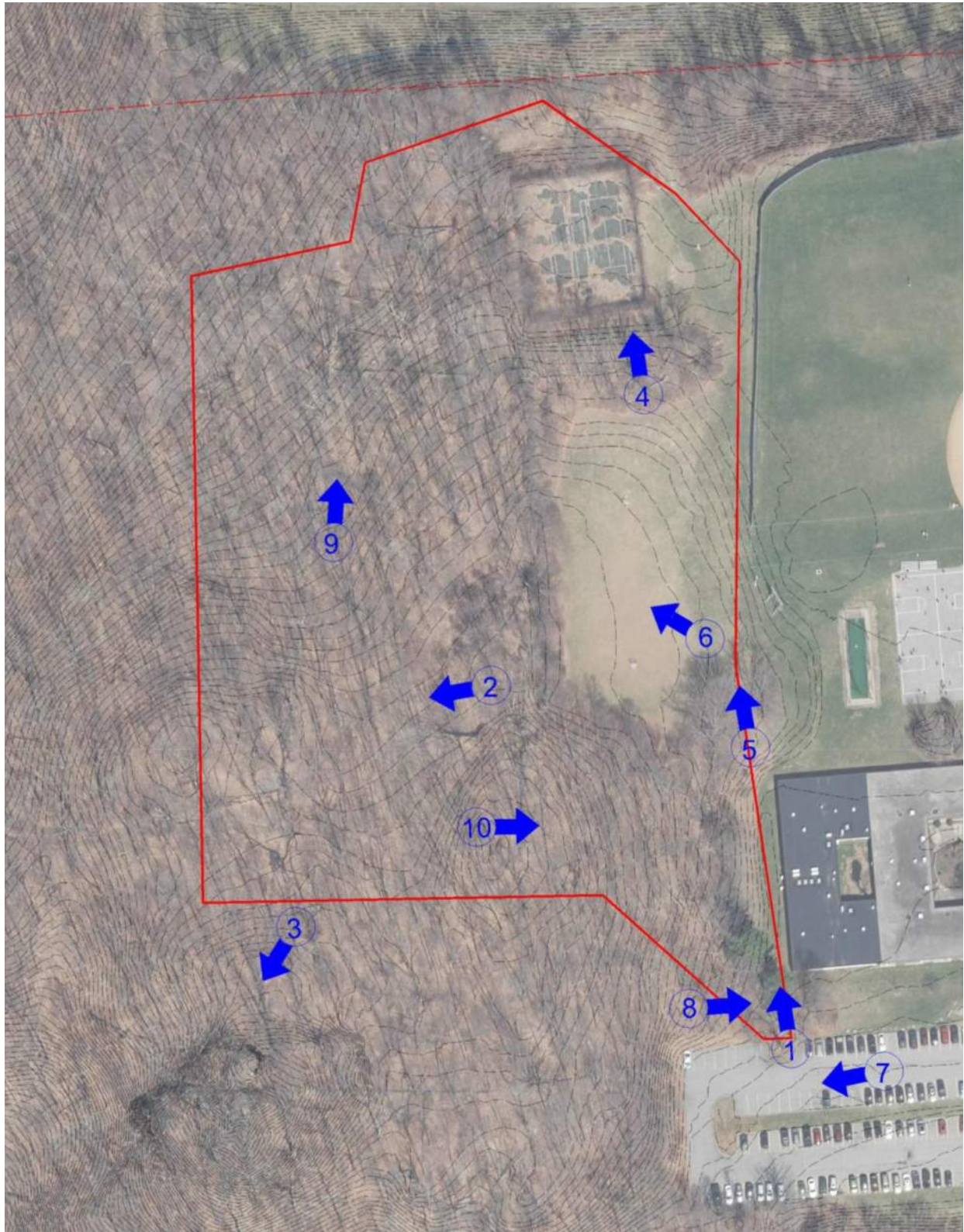


Figure 10: Existing Conditions Topographical Map and Aerial showing the Photographic Views of the Project APE. Scale: 1"=130'.

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1903 United State Geological Survey Topographical Map. Poughkeepsie Quadrangle. 15 Minute Series.

**PHASE 1B ARCHAEOLOGICAL FIELD RECONNAISSANCE SURVEY
NORTH SALEM CSD ATHLETIC FIELD PROJECT**

NORTH SALEM, WESTCHESTER COUNTY, NEW YORK

PREPARED FOR:

**THE CHAZEN COMPANIES
21 FOX STREET
POUGHKEEPSIE, NY 12601**



**HUDSON VALLEY
CULTURAL RESOURCE CONSULTANTS, LTD.
3 LYONS DRIVE POUGHKEEPSIE, NY 12601**

JANUARY 2020

Management Summary

SHPO Project Review Number (if available):

Involved State and Federal Agencies: **SEQR, DEC**

Phase of Survey: **Phase 1B Archaeological Field Reconnaissance Survey**

Location Information:

Location: **230 June Road**

Minor Civil Division: **Town of North Salem**

County: **Westchester County**

Survey Area (Metric & English)

Length: **695'/211.8 m**

Width: **465'/141.7 m**

Depth (when appropriate):

Number of Acres: **±6.8 acres (2.75 hectares)**

Number of Square Meters & Feet Excavated (Phase II, Phase III only): **N/A**

Percentage of the Site Excavated (Phase II, Phase III only):

USGS 7.5 Minute Quadrangle Map: **Peach Lake, New York 2019**

Archaeological Survey Overview

Number & Interval of Shovel Tests: **70 STs at 50' Interval**

Number & Size of Units: **N/A**

Width of Plowed Strips: **N/A**

Surface Survey Transect Interval: **N/A**

Results of Archaeological Survey

Number & name of prehistoric sites identified: **0**

Number & name of historic sites identified: **0**

Number & name of sites recommended for Phase II/Avoidance: **N/A**

Results of Architectural Survey

Number of buildings/structures/cemeteries within project area: **0**

Number of buildings/structures/cemeteries adjacent to project area: **1: North Salem High School**

Number of previously determined NR listed or eligible buildings/structures/cemeteries/districts: **0**

Number of identified eligible buildings/structures/cemeteries/districts: **0**

Report Author (s): **Franco Zani, Jr., Beth Selig, MA, RPA.**

Date of Report: **January 2020**

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APPENDIX A. SHOVEL TEST RECORDS

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- Photo 5: Large push piles cover the area near ST. 29. View to the west.
- Photo 6: View to the west along the southern boundary of the Project APE.
- Photo 7: View to the north from the southern end of the Project APE.
- Photo 8: View to the east from the northwestern corner of the Project APE.
- Photo 9: A well is located adjacent to ST 56. View to the south.
- Photo 10: View to the north along TR 9 in the northwestern corner of the Project APE.

I. PHASE 1B FIELD RECONNAISSANCE SURVEY

On December 20, 2019 Hudson Valley Cultural Resource Consultants (HVCRC) completed a Phase 1B field reconnaissance level archaeological survey of the proposed North Salem CSD Athletic Field. In November of 2019, HVCRC was retained by the Chazen Companies to complete a Phase 1A Literature Search and Sensitivity Assessment as part of the due diligence process for the proposed North Salem CSD Athletic Field in the Town of North Salem, Westchester County, New York. The Phase 1A survey includes the entirety of the area where improvements and new fields are proposed.

Archaeological fieldwork was supervised by Beth Selig MA, RPA, and Principal Investigator. The field work was completed by Franco Zani Jr. and Jamie Meinsen, MA who also completed the site photography. The final report was completed by Beth Selig.

A: PHASE 1A REPORT INFORMATION

The proposed project description, environmental information and archaeological sensitivity assessment are included in the Phase 1A report completed in November of 2019 by HVCRC. The research completed for the Phase 1A report reviewed the existing environmental and geological setting of the site, and provided a historic overview of the property within the Town of North Salem.

B: ARCHAEOLOGICAL METHODOLOGY

Areas selected for subsurface testing were identified during an intensive walkover inspection which evaluated the landscape to determine areas of prior disturbance, slopes in excess of 12% grade, saturated or wet soils and document evidence of former land usage. The locations of the shovel tests and disturbed areas were recorded on a scaled map that shows surveyed borders and has the locations of the various structures or features identified (Field Reconnaissance Map).

Shovel tests (STs) approximately 50 cm in diameter, were spaced 50 feet apart and excavated at least 10 cm into sterile subsoil, unless impeded by pooling water and rocks or other obstructions. This subsurface testing strategy was applied in areas of undisturbed soils and that were well drained and did not contain surface water. All soils excavated from shovel tests were screened through 0.25-inch hardware cloth. Shovel test profiles were recorded on standard field forms which included stratigraphic depths, Munsell soil color, texture and inclusions, disturbances and artifacts (Appendix A). The presence of clearly modern materials, if recovered would be noted on field forms, but HVCRC does not generally collect these materials for analysis or inclusion in the artifact assemblage. If any precontact period or potentially significant historic-period artifacts had been recovered from shovel tests, then these finds would have been bagged, labeled with standard project provenience information. Following completion of the archaeological fieldwork, all recovered materials would be washed, identified, inventoried and re-bagged in labeled clean 4-mil archival quality plastic bags. All artifacts recovered would then be identified and described based on material type and standard descriptive characteristics and included in an artifact inventory.

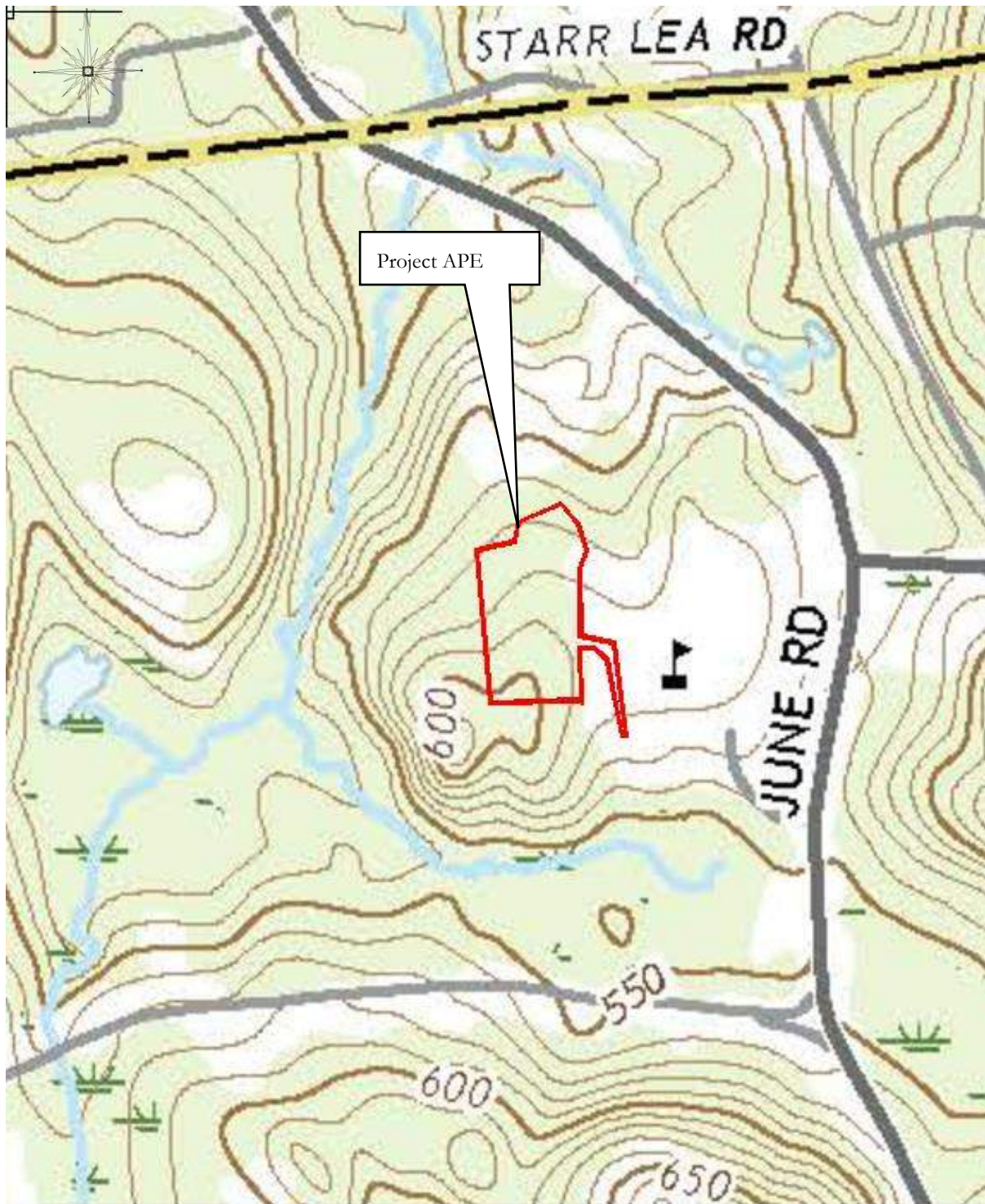


Figure 1: 2019 Peach Lake NY. USGS Topographic Quadrangle (Source: USGS.gov). Scale: 1" = 1050'.

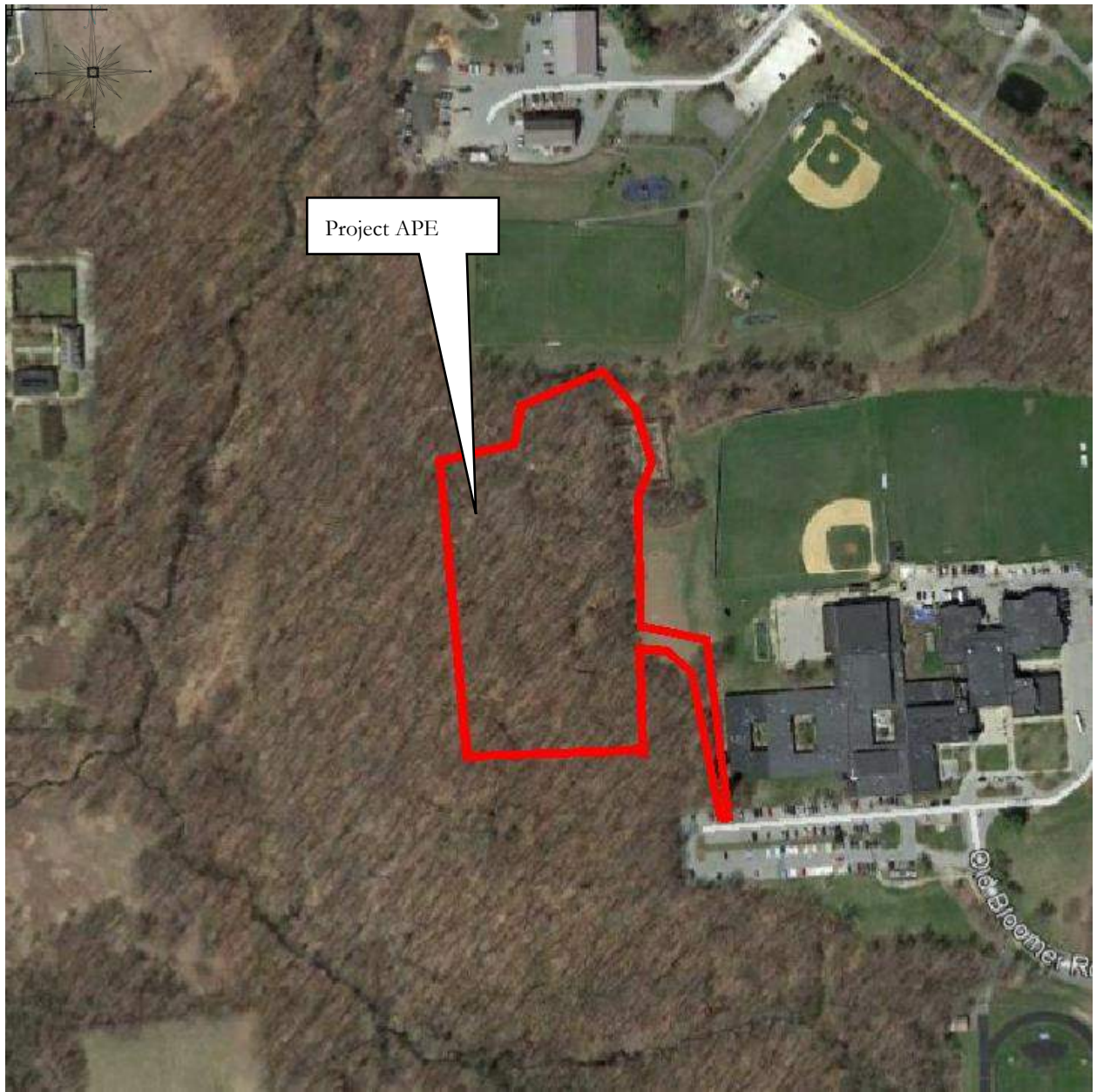


Figure 2: Aerial image showing the Project APE. (Source: Google Earth) Scale: 1" = 390'

C: ARCHAEOLOGICAL SURVEY RESULTS

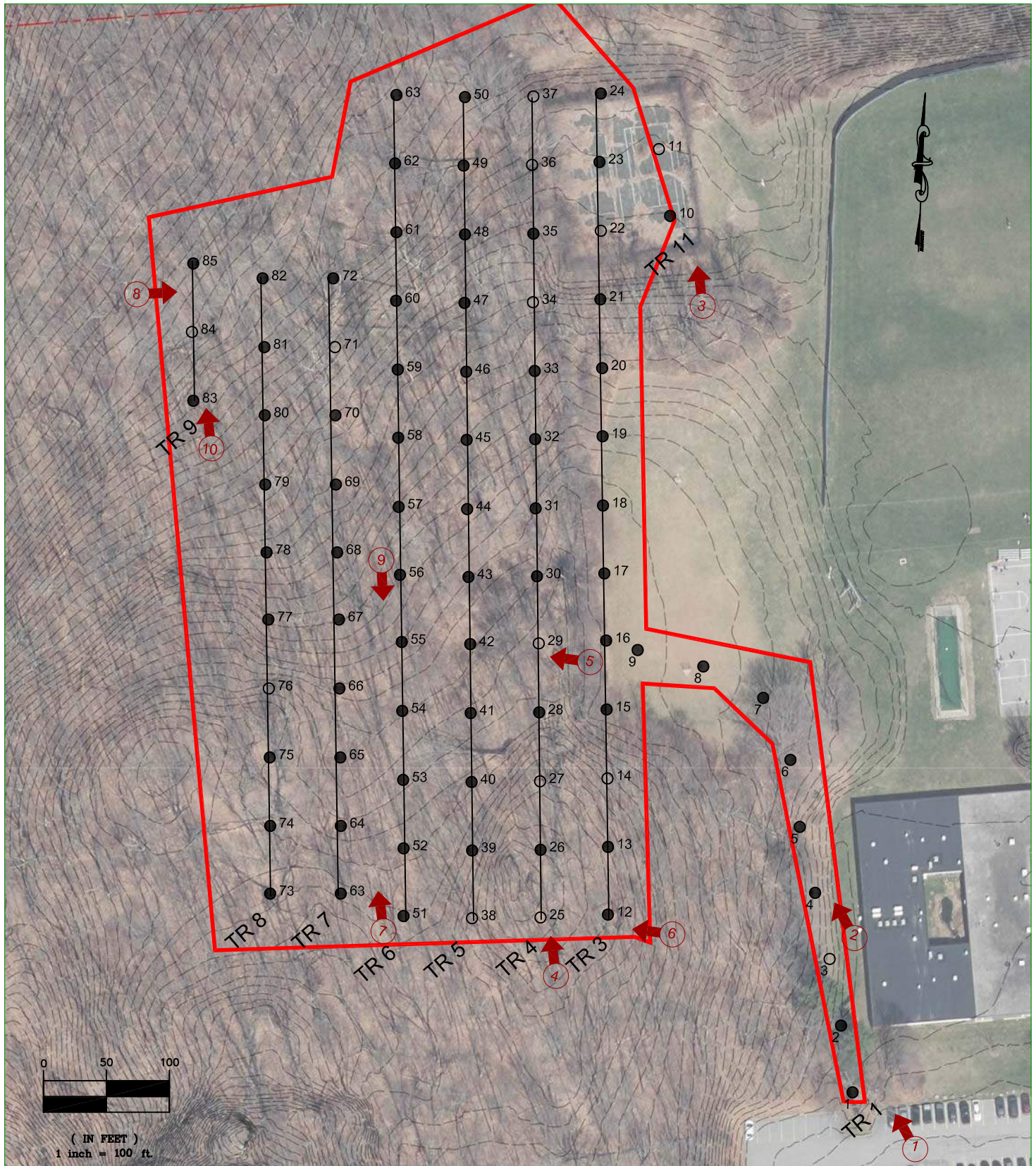
Field investigations began with an initial walkover of the surface of the athletic field APE. The location of the proposed athletic field sits in a primarily wooded and rocky region, just west of the existing school building. The soils within the athletic field are classified by the Natural Resources Conservation soils survey, as Charlton fine sandy loam, Charlton-Charfield complex and Urban land-Charlton complex.

Within the Project APE, shovel tests (STs) were spaced at 50' (15 m) intervals. Testing began in the southern portion of the APE along the proposed pathway that will connect the parking lot to the new athletic fields. Much of this area appears to have been disturbed, during the construction of the school building. The landscape is marked by a steep berm that ascends to the wooded area west of the parking lot. The shovel tests in this location yielded plastic and asphalt fragments. In the northern portion of the Project APE the landscape has been filled with old tree branches and other natural debris. The balance of the testing was completed within the area of the proposed athletic fields. The transects in this located were aligned south to north, terminating at the southern edge of the steep slope and northern APE boundary. Areas of exposed two old, and unused tennis courts. The landscape around the tennis courts has been graded and leveled. To the west of the tennis courts, the landscape has bedrock, and push piles of debris in the northern portion of the site, precluded the completion of fifteen shovel tests.

A total of seventy shovel tests were completed within the boundaries of the Project APE. The soils varied throughout, with a dark yellowish brown silty sandy loam and yellow brown silty loam with gravel in the south western portion of the Project APE and a brown silty loam and a dark yellowish brown silty loam in the wooded portions of the APE. In the northern portion of the APE the soils consisted of a dark yellowish brown silty loam overlying a yellow brown sandy silty loam. No significant cultural material was recovered from any of the completed shovel tests.

D: CONCLUSIONS AND RECOMMENDATIONS

In December of 2019, HVCRC completed a Phase 1B Cultural Resource Survey of the North Salem CSD Athletic Field location. Based on the results of the survey, no archaeological sites or historic structures are located within the Area of Potential Effect (APE). Therefore, the proposed undertaking will not affect any potentially significant cultural resources. In the opinion of HVCRC that no additional cultural resources investigations are warranted for the proposed Project. These recommendations are subject to concurrence by the New York State Office of Parks, Recreation and Historic Preservation.




HUDSON VALLEY
 Cultural Resource Consultants, Ltd.

Figure 3: North Salem CSD Athletic Field
 Phase 1B Field Reconnaissance Map
 Scale 1" = 100'

LEGEND

- ST Sterile Shovel Test Location
- ST Planned Shovel Test Location Not Excavated
- ➔ ① Photographic View
- APE Boundaries



Photo 1: View to the north along the proposed access corridor to the new athletic fields, in the southern portion of the Project APE.



Photo 2: A soil berm is located along the eastern boundary of the Project APE. View to the north.



Photo 3: Derelict tennis courts are located in the northeastern corner of the Project APE. View to the north.



Photo 4: Areas of surface bedrock are located throughout the Project APE. View to the north of ST 25.



Photo 5: Large push piles cover the area near ST. 29. View to the west.



Photo 6: View to the west along the southern boundary of the Project APE.



Photo 7: View to the north from the southern end of the Project APE.



Photo 8: View to the east from the northwestern corner of the Project APE.



Photo 9: A well is located adjacent to ST 56. View to the south.



Photo 10: View to the north along TR 9 in the northwestern corner of the Project APE.

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APPENDIX A: SHOVEL TEST RECORDS

| Transect | ST | Level | Depth (in) | Depth (cm) | Munsell | Soil Description | Cultural Material |
|-------------|----|-------|------------|------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| TR 1 | 1 | 1 | 0-9 | 0-23 | 10YR4/4 | Dark yellowish brown silty sandy loam, terminated at rock cluster obstruction | plastic (discarded), asphalt fragments (discarded) |
| | 2 | 1 | 0-11 | 0-27 | 10YR4/4 | Dark yellowish brown silty loam with gravel | NCM |
| | | 2 | 11-15 | 27-37 | 10YR5/4 | Yellow brown silty loam with gravel | NCM |
| | 3 | | | | | Not Excavated: Slope > 12% | |
| | 4 | 1 | 0-7 | 0-18 | 10YR4/4 | Dark yellowish brown silty loam with gravel | NCM |
| | | 2 | 7-12 | 18-30 | 10YR5/4 | Yellow brown silty loam with gravel | NCM |
| | 5 | 1 | 0-4 | 0-10 | 10YR4/4 | Dark yellowish brown silty loam, terminated at root mass obstruction | NCM |
| | 6 | 1 | 0-11 | 0-27 | 10YR4/4 | Dark yellowish brown silty loam with gravel | plastic bottle (discarded) |
| | | 2 | 11-15 | 27-39 | 10YR5/4 | Yellow brown silty loam with gravel | NCM |
| | 7 | 1 | 0-11 | 0-28 | 10YR4/4 | Dark yellowish brown silty loam, terminated at rock obstruction | NCM |
| | 8 | 1 | 0-20 | 0-50 | 10YR3/2, 10YR5/4, & 10YR6/1 | Mixture of very dark grayish brown silty sand, yellow brown silty sand, and gray silty sand, terminated at rock obstruction | plastic (discarded) |
| | 9 | 1 | 0-19 | 0-47 | 10YR3/2, 10YR5/4, & 10YR6/1 | Mixture of very dark grayish brown silty sand, yellow brown silty sand, and gray silty sand, terminated at rock obstruction | plastic (discarded), cement fragments (discarded) |
| TR 2 | 10 | 1 | 0-11 | 0-27 | 10YR3/4 | Dark yellowish brown silty loam with gravel | NCM |
| | | 2 | 11-15 | 27-39 | 10YR4/6 | Dark yellow brown silty loam with gravel | NCM |

| Transect | ST | Level | Depth (in) | Depth (cm) | Munsell | Soil Description | Cultural Material |
|----------|----|-------|------------|------------|---------|-----------------------------------------------------------------|-------------------|
| | 11 | | | | | Not Excavated: Disturbed: Inside Tennis Court | |
| TR 3 | 12 | 1 | 0-6 | 0-14 | 10YR3/2 | Very dark grayish brown silty loam, terminated at bedrock | NCM |
| | 13 | 1 | 0-7 | 0-18 | 10YR3/2 | Very dark grayish brown silty loam, terminated at bedrock | NCM |
| | 14 | | | | | Not Excavated: Slope > 12% | |
| | 15 | 1 | 0-4 | 0-9 | 10YR3/3 | Dark brown silty loam | NCM |
| | | 2 | 4-8 | 9-20 | 10YR4/6 | Dark yellow brown silty loam | NCM |
| | 16 | 1 | 0-9 | 0-22 | 10YR3/4 | Dark yellowish brown silty loam | NCM |
| | | 2 | 9-13 | 22-32 | 10YR5/6 | Yellow brown sandy silty loam | NCM |
| | 17 | 1 | 0-7 | 0-18 | 10YR3/4 | Dark yellowish brown silty loam | NCM |
| | | 2 | 7-11 | 18-28 | 10YR5/6 | Yellow brown sandy silty loam | NCM |
| | 18 | 1 | 0-7 | 0-19 | 10YR3/4 | Dark yellowish brown silty loam | NCM |
| | | 2 | 7-10 | 19-26 | 10YR5/6 | Yellow brown sandy silty loam, terminated at rock obstruction | NCM |
| | 19 | 1 | 0-13 | 0-32 | 10YR4/4 | Dark yellowish brown silty loam, terminated at rock obstruction | NCM |
| | 20 | 1 | 0-12 | 0-30 | 10YR3/4 | Dark yellowish brown silty loam | NCM |
| | | 2 | 12-14 | 30-36 | 10YR4/6 | Dark yellow brown silty loam, terminated at rock obstruction | NCM |
| | 21 | 1 | 0-21 | 0-53 | 10YR3/4 | Dark yellowish brown silty loam | NCM |
| | | 2 | 21-25 | 53-64 | 10YR4/6 | Dark yellow brown silty loam | NCM |

| Transect | ST | Level | Depth (in) | Depth (cm) | Munsell | Soil Description | Cultural Material |
|-------------|----|-------|------------|------------|---------|-----------------------------------------------------------------------------|--------------------------------------|
| TR 3 | 22 | | | | | Not Excavated: Disturbed: Inside Tennis Court | |
| | 23 | | | | | Not Excavated: Disturbed: Inside Tennis Court | |
| | 24 | 1 | 0-10 | 0-26 | 10YR4/4 | Dark yellowish brown silty loam, terminated at rock obstruction | moder brown bottle glass (discarded) |
| TR 4 | 25 | | | | | Not Excavated: Exposed Bedrock Outcrop | |
| | 26 | 1 | 0-11 | 0-28 | 10YR3/3 | Dark brown silty loam with gravel | NCM |
| | | 2 | 11-12 | 28-30 | 10YR5/3 | Brown silty loam, terminated at bedrock | NCM |
| | 27 | | | | | Not Excavated: Exposed Bedrock Outcrop | |
| | 28 | 1 | 0-10 | 0-26 | 10YR3/3 | Dark brown silty loam with gravel | NCM |
| | | 2 | 10-16 | 26-40 | 10YR5/3 | Brown silty loam | NCM |
| | 29 | | | | | Not Excavated: Disturbed: Push Piles | |
| | 30 | 1 | 0-12 | 0-30 | 10YR5/3 | Brown silty loam | NCM |
| | 31 | 1 | 0-11 | 0-29 | 10YR3/4 | Dark yellowish brown silty loam with gravel | NCM |
| | | 2 | 11-16 | 29-40 | 10YR4/6 | Dark yellow brown silty loam with gravel | NCM |
| | 32 | 1 | 0-10 | 0-25 | 10YR3/4 | Dark yellowish brown silty loam with gravel, terminated at rock obstruction | NCM |
| | 33 | 1 | 0-7 | 0-17 | 10YR3/4 | Dark yellowish brown silty loam with gravel, terminated at rock obstruction | NCM |
| | 34 | | | | | Not Excavated: Exposed Bedrock Outcrop | |

| Transect | ST | Level | Depth (in) | Depth (cm) | Munsell | Soil Description | Cultural Material |
|----------|----|-------|------------|------------|---------|----------------------------------------------------------|-------------------|
| TR 4 | 35 | 1 | 0-7 | 0-17 | 10YR3/4 | Dark yellowish brown silty loam with gravel | NCM |
| | | 2 | 7-12 | 17-30 | 10YR4/6 | Dark yellow brown silty loam with gravel | NCM |
| | 36 | 1 | | | | Not Excavated: Disturbed: Inside Tennis Court | |
| | 37 | 1 | | | | Not Excavated: Disturbed: Rock covered road | |
| TR 5 | 38 | | | | | Not Excavated: Slope > 12% | |
| | 39 | 1 | 0-16 | 0-40 | 10YR3/1 | Very dark gray silty loam with gravel | NCM |
| | | 2 | 16-21 | 40-53 | 10YR4/6 | Dark yellow brown silty loam with gravel | NCM |
| | 40 | 1 | 0-12 | 0-31 | 10YR3/4 | Dark yellowish brown silty loam with gravel | NCM |
| | | 2 | 12-19 | 31-47 | 10YR5/6 | Yellow brown silty loam with gravel | NCM |
| | 41 | 1 | 0-10 | 0-26 | 10YR3/4 | Dark yellowish brown silty loam with gravel | NCM |
| | | 2 | 10-17 | 26-43 | 10YR5/6 | Yellow brown silty loam with gravel | NCM |
| | 42 | 1 | 0-15 | 0-38 | 10YR5/4 | Yellow brown silty loam with gravel | NCM |
| | 43 | 1 | 0-7 | 0-19 | 10YR3/4 | Dark yellowish brown silty loam with gravel | NCM |
| | | 2 | 7-12 | 19-30 | 10YR4/6 | Dark yellow brown silty loam with gravel | NCM |
| | 44 | 1 | 0-10 | 0-25 | 10YR3/3 | Dark brown silty loam with gravel | NCM |
| | | 2 | 10-15 | 25-39 | 10YR5/4 | Yellow brown silty loam with gravel | NCM |
| | 45 | 1 | 0-9 | 0-22 | 10YR3/3 | Dark brown silty loam with gravel, terminated at bedrock | NCM |

| Transect | ST | Level | Depth (in) | Depth (cm) | Munsell | Soil Description | Cultural Material |
|----------|----|-------|------------|------------|-------------------|-----------------------------------------------------------------------------------------------------------|-------------------|
| TR 5 | 46 | 1 | 0-10 | 0-26 | 10YR3/4 | Dark yellowish brown silty loam with gravel | NCM |
| | | 2 | 10-16 | 26-40 | 10YR4/6 | Dark yellow brown silty loam with gravel | NCM |
| | 47 | 1 | 0-11 | 0-29 | 10YR3/4 | Dark yellowish brown silty loam with gravel | NCM |
| | | 2 | 11-15 | 29-39 | 10YR5/4 | Yellow brown silty loam with gravel | NCM |
| | 48 | 1 | 0-11 | 0-27 | 10YR3/4 | Dark yellowish brown silty loam with gravel | NCM |
| | | 2 | 11-16 | 27-41 | 10YR5/4 | Yellow brown silty loam with gravel | NCM |
| | 49 | 1 | 0-12 | 0-30 | 10YR3/4 | Dark yellowish brown silty loam with gravel | NCM |
| | | 2 | 12-16 | 30-40 | 10YR5/4 | Yellow brown silty loam with gravel | NCM |
| | 50 | 1 | 0-6 | 0-16 | 10YR3/3 | Dark brown silty loam with gravel | NCM |
| | | 2 | 6-12 | 16-30 | 10YR4/6 | Dark yellow brown silty loam with gravel | NCM |
| TR 6 | 51 | 1 | 0-20 | 0-50 | 10YR4/4 & 10YR4/6 | Dark yellowish brown silty loam mottled with dark yellow brown silty loam, terminated at rock obstruction | NCM |
| | | 2 | 5-14 | 13-36 | 10YR4/6 | Dark yellow brown silty loam with gravel | NCM |
| | 52 | 1 | 0-5 | 0-13 | 10YR3/4 | Dark yellowish brown silty loam with gravel | NCM |
| | | 2 | 5-14 | 13-36 | 10YR4/6 | Dark yellow brown silty loam with gravel | NCM |
| | 53 | 1 | 0-13 | 0-33 | 10YR3/4 | Dark yellowish brown silty loam with gravel | NCM |
| | | 2 | 13-17 | 33-44 | 10YR4/6 | Dark yellow brown silty loam with gravel | NCM |

| Transect | ST | Level | Depth (in) | Depth (cm) | Munsell | Soil Description | Cultural Material |
|----------|------|-------|------------|------------|---------|----------------------------------------------------------------------------------|-----------------------------------------------------------------|
| TR 6 | 54 | 1 | 0-4 | 0-11 | 10YR3/4 | Dark yellowish brown silty loam with gravel, terminated at root mass obstruction | NCM |
| | 55 | 1 | 0-10 | 0-26 | 10YR3/4 | Dark yellowish brown silty loam with gravel, terminated at rock obstruction | NCM |
| | 56 | 1 | 0-11 | 0-28 | 10YR3/4 | Dark yellowish brown silty loam with gravel | NCM |
| | | 2 | 11-17 | 28-42 | 10YR4/6 | Dark yellow brown silty loam with gravel | NCM |
| | 57 | 1 | 0-10 | 0-26 | 10YR3/4 | Dark yellowish brown silty loam with gravel and cobbles | NCM |
| | | 2 | 10-15 | 26-37 | 10YR4/6 | Dark yellow brown silty loam with gravel and cobbles | NCM |
| | 58 | 1 | 0-12 | 0-31 | 10YR3/4 | Dark yellowish brown silty loam with cobbles, terminated at rock obstruction | NCM |
| | 59 | 1 | 0-13 | 0-33 | 10YR3/4 | Dark yellowish brown silty loam with cobbles, terminated at rock obstruction | NCM |
| | 60 | 1 | 0-12 | 0-31 | 10YR4/6 | Dark yellow brown silty loam with cobbles, terminated at rock obstruction | NCM |
| | 61 | 1 | 0-8 | 0-20 | 10YR3/4 | Dark yellowish brown silty loam | NCM |
| | | 2 | 8-12 | 20-30 | 10YR5/4 | Yellow brown silty loam with cobbles | NCM |
| | 62 | 1 | 0-8 | 0-20 | 10YR3/4 | Dark yellowish brown silty loam | NCM |
| | | 2 | 8-14 | 20-36 | 10YR5/4 | Yellow brown silty loam with cobbles | NCM |
| | TR 7 | 63 | 1 | 0-11 | 0-28 | 10YR3/4 | Dark yellowish brown silty loam, terminated at rock obstruction |

| Transect | ST | Level | Depth (in) | Depth (cm) | Munsell | Soil Description | Cultural Material |
|----------|----|-------|------------|------------|---------|----------------------------------------------------------------------|-------------------|
| TR 7 | 64 | 1 | 0-10 | 0-25 | 10YR3/4 | Dark yellowish brown silty loam with cobbles | NCM |
| | | 2 | 10-15 | 25-38 | 10YR4/6 | Dark yellow brown silty loam with cobbles | NCM |
| | 65 | 1 | 0-8 | 0-21 | 10YR3/4 | Dark yellowish brown silty loam with cobbles | NCM |
| | | 2 | 8-12 | 21-31 | 10YR4/6 | Dark yellow brown silty loam with cobbles | NCM |
| | 66 | 1 | 0-9 | 0-24 | 10YR3/4 | Dark yellowish brown silty loam with cobbles | NCM |
| | | 2 | 9-15 | 24-37 | 10YR4/6 | Dark yellow brown silty loam with cobbles | NCM |
| | 67 | 1 | 0-8 | 0-20 | 10YR3/4 | Dark yellowish brown silty loam, terminated at rock obstruction | NCM |
| | 68 | 1 | 0-9 | 0-24 | 10YR3/4 | Dark yellowish brown silty loam | NCM |
| | | 2 | 9-13 | 24-34 | 10YR5/4 | Yellow brown silty loam | NCM |
| | 69 | 1 | 0-14 | 0-35 | 10YR3/4 | Dark yellowish brown silty loam | NCM |
| | | 2 | 14-18 | 35-45 | 10YR4/6 | Dark yellow brown silty loam | NCM |
| | 70 | 1 | 0-12 | 0-30 | 10YR3/4 | Dark yellowish brown silty loam, terminated at root mass obstruction | NCM |
| | 71 | | | | | Not Excavated: Exposed Bedrock Outcrop | |
| | 72 | 1 | 0-13 | 0-32 | 10YR3/4 | Dark yellowish brown silty loam | NCM |
| | | 2 | 13-17 | 32-42 | 10YR4/6 | Dark yellow brown silty loam | NCM |
| TR 8 | 73 | 1 | 0-4 | 0-10 | 10YR3/2 | Very dark grayish brown silty loam, terminated at bedrock | NCM |

| Transect | ST | Level | Depth (in) | Depth (cm) | Munsell | Soil Description | Cultural Material |
|----------|----|-------|------------|------------|---------|-----------------------------------------------------------------------|-------------------|
| TR 8 | 74 | 1 | 0-9 | 0-22 | 10YR3/4 | Dark yellowish brown silty loam with gravel | NCM |
| | | 2 | 9-14 | 22-35 | 10YR5/4 | Yellow brown silty loam with gravel | NCM |
| | 75 | 1 | 0-10 | 0-26 | 10YR3/4 | Dark yellowish brown silty loam with gravel | NCM |
| | | 2 | 10-14 | 26-36 | 10YR5/4 | Yellow brown silty loam with gravel | NCM |
| | 76 | | | | | Not Excavated: Exposed Bedrock Outcrop | |
| | 77 | 1 | 0-12 | 0-31 | 10YR3/4 | Dark yellowish brown silty loam with gravel | NCM |
| | | 2 | 12-17 | 31-43 | 10YR5/4 | Yellow brown silty loam with gravel | NCM |
| | 78 | 1 | 0-11 | 0-29 | 10YR3/4 | Dark yellowish brown silty loam with gravel | NCM |
| | | 2 | 11-16 | 29-40 | 10YR5/4 | Yellow brown silty loam with gravel | NCM |
| | 79 | 1 | 0-11 | 0-29 | 10YR3/4 | Dark yellowish brown silty loam with gravel | NCM |
| | | 2 | 11-16 | 29-41 | 10YR5/4 | Yellow brown silty loam with gravel | NCM |
| | 80 | 1 | 0-9 | 0-23 | 10YR3/2 | Very dark grayish brown silty loam with gravel | NCM |
| | | 2 | 9-15 | 23-37 | 10YR5/4 | Yellow brown silty loam with gravel | NCM |
| | 81 | 1 | 0-6 | 0-15 | 10YR3/2 | Very dark grayish brown silty loam with gravel, terminated at bedrock | NCM |
| | 82 | 1 | 0-5 | 0-12 | 10YR5/4 | Yellow brown silty loam with gravel, terminated at bedrock | NCM |
| TR 9 | 83 | 1 | 0-11 | 0-27 | 10YR3/3 | Dark brown silty loam with gravel | NCM |
| | | 2 | 11-16 | 27-40 | 10YR5/4 | Yellow brown silty loam with gravel | NCM |

| Transect | ST | Level | Depth (in) | Depth (cm) | Munsell | Soil Description | Cultural Material |
|----------|----|-------|------------|------------|---------|------------------------------------------------------------|-------------------|
| TR 9 | 84 | | | | | Not Excavated: Exposed Bedrock Outcrop | |
| | 85 | 1 | 0-6 | 0-16 | 10YR3/3 | Dark brown silty loam with gravel | NCM |
| | | 2 | 6-9 | 16-23 | 10YR5/4 | Yellow brown silty loam with gravel, terminated at bedrock | NCM |

ATTACHMENT C
Concept Plans

**NORTH SALEM CSD
ATHLETIC FIELDS
IMPROVEMENT PROJECT**

230 June Road
North Salem, NY 10560

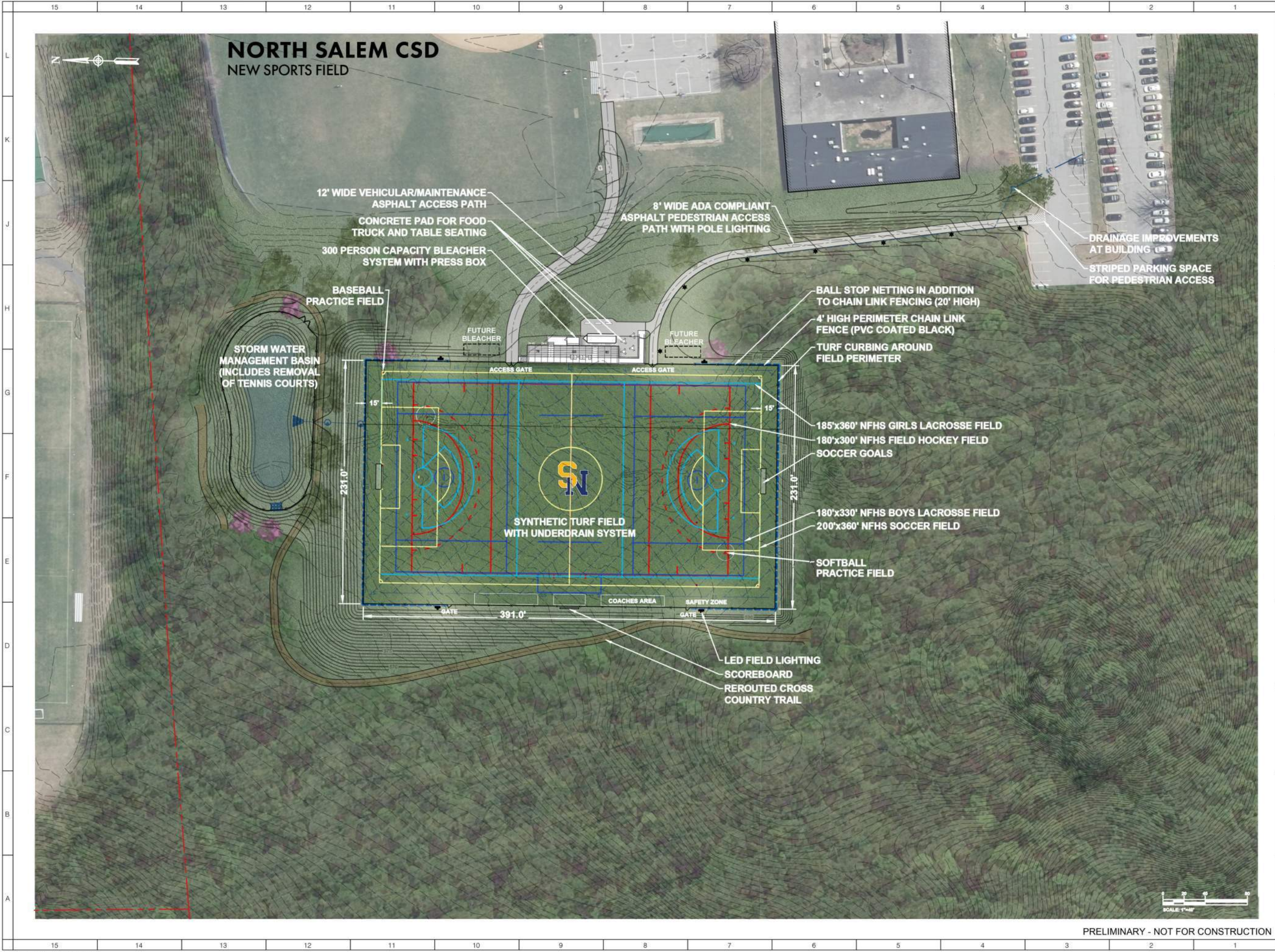
REVISIONS

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ISSUED:
DATE: 01-30-20
SCALE: 1"=40'
SHEET NAME:
FIELD CONCEPT

SHEET NUMBER:

C-101



PRELIMINARY - NOT FOR CONSTRUCTION

