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PRELIMINARY DESIGN REPORT

September 2023

TOWN OF

Watertown

CONNECTICUT

State Project No. 153-125

Steele Brook Greenway

Preliminary Design Submission

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1 INTRODUCTION AND DESCRIPTION OF PROJECT SITE

This project will include construction of a greenway segment along the northerly side of the UNICO Field soccer fields and Steele Brook, with paved surface, from the existing trail terminus to the south of the parking access drive at Unico Field to the existing trail at the northerly side of French Street, approximately 3,800 linear feet. The design for this greenway segment shall include a new prefabricated pedestrian bridge over Steele Brook in the vicinity of French Street. The project also includes minor drainage improvements, fencing, landscaping, a trailhead parking lot with illumination, and new crosswalk with Rectangular Rapid Flashing Beacons (RRFBs) at French Street. Partial impacts to two properties are anticipated which will likely require easements. The project also includes a watercourse culvert crossing and a scenic view/observation area along Steele Brook.

The proposed design includes trail surface construction, drainage swale and pipe crossing improvements, trail side safety measures; and an 895' long – 12' wide prefabricated pedestrian bridge on shallow cast-in-place concrete footings and abutments which will span the existing FEMA 100-yr floodplain.

This is a Transportation Alternatives Program project and the design and construction will be funded 80% by the Federal Government and 20% by the Town of Watertown.

2 DESIGN DATA

Design values identified in this section are based on the 2003 *Connecticut Department of Transportation (CDOT) Highway Design Manual (Manual)*, revised February 2013, as well as the 2011 *A Policy on Geometric Design of Highways and Streets* published by the American Association of State Highway and Transportation Officials (AASHTO) and the 2012 *AASHTO Guide for the Development of Bicycle Facilities, 4th Edition*.

2.1 DESIGN CRITERIA

Given the relatively flat topography for most of the trail alignment, a design speed of 18 mph is recommended, in accordance with the above referenced Guide for the Development of Bicycle Facilities, for the proposed improvements. The design intends to generally match the existing elevations and conditions, except in areas where localized low points, depressions or erosion has occurred to facilitate proper drainage of surface runoff away from the trail surface toward the adjacent swales, pipe crossings, and Steele Brook, which flows along the project limits roughly north to south.

Using a design speed of 18 mph, a minimum horizontal radius of 60 feet is proposed. The proposed improved trail width, which will be a 12' wide hot mix bituminous concrete surface, except at the southern end of the trail above UNICO fields where the trail width will be reduced to 10' where the existing topography and gravel width would require significant excavation of the slope to the east or the construction of a retaining wall.

3 TYPICAL CROSS SECTION

Typical cross section elements are based on recommendations taken from the geotechnical investigations and analyses, which apply to the trail and proposed paved parking lots. For these

areas the proposed pavement structure will be 1.5" of hot mix asphalt (HMA) S0.250, on 1.75" HMA S0.5, on 4" of processed aggregate on 8" of gravel subbase. Disturbed unpaved areas will be provided with turf establishment. Typical cross sections are provided in the Preliminary Design Plans. In areas where change in elevation is within the shy line of the trail edge, 54" high split rail fence is proposed to address trail side user and equestrian safety concerns.

Design Alternatives:

Weston & Sampson worked with the Town of Watertown to review alternative accessible routes or access along Steele Brook and UNICO fields. One alternative considered keeping the proposed greenway along Steele Brook for the entire length of the project. While access along the brook and between the playing fields currently exists via a gravel surface, this location is entirely within the floodplain. The preferred route presented with the Preliminary Design includes a portion of the trail along Steele Brook between the proposed pedestrian bridge crossing and UNICO fields, with the balance of the trail along the gravel path above and to the east of the UNICO fields which connects to the existing access drive to the fields and links to the existing parking area which will be improved to provide ADA compliant parking spots.

4 MAINTENANCE & PROTECTION OF TRAFFIC / CONSTRUCTION ACCESS

Most of the trail construction will occur off-road without the need for continuous maintenance and protection of traffic efforts, except during the work needed to install the proposed Rectangular Rapid Flashing Beacons for the new crosswalk is proposed to connect the proposed greenway with existing greenway on the norther side of French Street. An existing mid-block crosswalk exists to the east of the project area on French Street near Westbury Road. The removal of this existing crosswalk will be reviewed in more detail to make a final determination based on pedestrian traffic patterns and demand, but for the purposes of this project its removal has been included in the probable construction costs estimates. Construction entrances will be provided at the existing driveway to the project area from French Street and adjacent to the UNICO fields parking area. Construction staging and laydown areas will be coordinated with the Town of Watertown. Additional temporary traffic control may be required for the delivery and installation of the bridge.

5 DRAINAGE, SWALES, AND SEDIMENTATION AND EROSION CONTROL

Several small culverts and pipe convey off and on-site watercourse and drainage systems east to west through the project area to Steele Brook. Additional analyses of these crossings will need to be performed to confirm additional not readily available with field survey efforts, physical conditions and adequacy of capacity. Attached herewith in Appendices of this report is the Preliminary Design Checklist.

Shallow drainage swales are proposed in several locations to direct surface runoff adjacent to the trail surface toward existing drainage infrastructure and away from the trail surface. Sedimentation and erosion controls will be employed and maintained throughout the project limits during construction. These controls will be based on *Guidelines for Soil Erosion and Sediment Control* prepared by the Connecticut Council on Soil and Water Conservation.

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6 STRUCTURAL ELEMENTS

The proposed project includes an 85' long, 12' wide prefabricated pedestrian bridge with abutments which completely span the FEMA floodplain and a low chord at least one foot above the 100-year flood elevation. The proposed bridge will be designed for pedestrian loads and H-10 vehicle loads in accordance with LRFD standards.

7 ENVIRONMENTAL PERMITS

JMM Wetland Consulting Services, LLC (JMM) was retained to conduct field investigations to review and delineate any regulated wetland resource areas, pursuant to the provisions of the Inland Wetlands and Watercourses Act, Connecticut General Statutes (CGS Sections 22a-36 to 22a-45), as amended, and the Town of Watertown, Inland Wetland and Watercourses regulations. Moreover, the site was reviewed for jurisdictional (i.e., federal) wetlands, pursuant to Section 404 of the Clean Water Act, in accordance with the Regional Supplement to the ACOE (Army Corps of Engineers) Wetland Delineation Manual: Northcentral and Northeast Region ("the Manual") (Version 2, 2012) to identify and delineate local, and state and federal defined resource areas for the project area in August 2023.

These delineations of the wetlands and ordinary high water (OHW) along the proposed trail ROW, were subsequently surveyed and reflected on the project drawings, together with the FEMA regulatory floodplain boundaries which identify 100-year Special Flood Hazard Areas A4 and A5 within the project corridor.

Based on the JMM delineations, the preliminary design has been advanced to minimize or avoid any permanent wetland or watercourse direct impacts. In areas where the design and analyses indicate replacement of any of the smaller drainage crossings, only temporary wetland and watercourse impacts are anticipated. For the proposed pedestrian bridge crossing, the bridge elevations and abutments are proposed outside the FEMA regulatory limits and at least one foot (1') of freeboard will be provided between the 100-year flood elevation and the low chord of the bridge superstructure. In areas where fill is proposed within the floodplain, excavation has also been proposed to provide compensatory storage and no net increase of fill. The following permits and coordination are likely to be required:

- Natural Diversity Data Base (NDDDB) State Listed Species Review Form - completed
- Town of Watertown – Inland Wetlands Permit
- Town of Watertown – Planning & Zoning Permit
- CTDEEP Flood Management Certification
- CTDEEP Stormwater Discharge for Construction Activities Permit – less than 5 acres of disturbance expected.
- A Section 4(f) documentation (work within a Town Park) – De minimus impact anticipated

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In addition to the direct wetland and watercourse impacts, the local inland wetland agency also regulates activities within their “Upland Review” areas, which for this project includes a significant portion of the project limits given that the upland review includes any area within 100 feet measured horizontally from the boundaries of any wetland or watercourse.

Weston & Sampson will prepare computations of fill and excavation volume impacts during semi-final design and in preparation of the anticipated local, state, and federal regulatory permits.

It is important to note that during our initial reconnaissance, we spoke with the local wetlands officer who indicated the agency will be revising their regulations in early 2024 to increase their upland review area from 100 ft to 150 ft.

Historical and Archaeological Resources

W&S has engaged the services of Historical Perspectives, Inc. (HPI) to conduct a Phase 1A Archaeological / Cultural assessment survey of the project corridor. The Phase 1A Report (provided under separate cover) recommends no further investigation based on the existing conditions and levels of obvious disturbance.

As design progresses, the list of permits required will be finalized.

8 SUBSURFACE CONDITIONS

Subsurface conditions were investigated for this project and results are presented in the Geotechnical Engineering Report prepared by Down To Earth Consulting, LLC and submitted under separate cover dated September 2023. Recommendations for the pavement sections are highlighted above and the foundation recommendations for the proposed pedestrian bridge include shallow conventional footings and abutments.

9 PROPERTY ACQUISITIONS AND EASEMENTS

The existing trail and proposed improvements fall primarily within property owned by the Town of Watertown except for the portion of the trail which follows an existing gravel path and transitions from along Steele Brook to the gravel path above and east of the UNICO fields from approximate station +/-32+00 to +/-33+00 across a small rear corner of property Now or Formerly (N/F) Owned by George G. Touponse Jr. (Edwards Street). A permanent easement with an area of approximately 3,500 sf is proposed for the future use and maintenance of the Greenway.

10 UTILITIES

Underground utilities present include several storm drainage culverts, two sanitary sewers, (one following the power lines and trail route and one following a parallel path along the upper gravel road east and above the UNICO fields. Overhead utilities include electric, communications, and cable which follows the abandoned railroad right-of-way the entire length of the project. Services in the area are provided by the following:

- Town of Watertown Water and Sewer Department

- Town of Watertown Fire District (sewer)
- Connecticut Light & Power (dba Eversource Energy – Electric Distribution)
- Cablevision
- Level 3 Communications, LLC aka CenturyLink Communications, LLC
- Crown Castle Fiber, LLC
- The Southern New England Telephone Company – dba Frontier Communications of CT
- Yankee Gas Services Company - dba Eversource Energy – Gas

All possible attempts to avoid conflicts with existing utilities will be made in the proposed design. Test pits to confirm sanitary sewer depths, locate manholes frames and covers and buried drainage inlets may be necessary during design to confirm any unknown utility information.

Utility coordination will be initiated upon completion of preliminary design submission review.

11 CONSTRUCTION COST OPINION

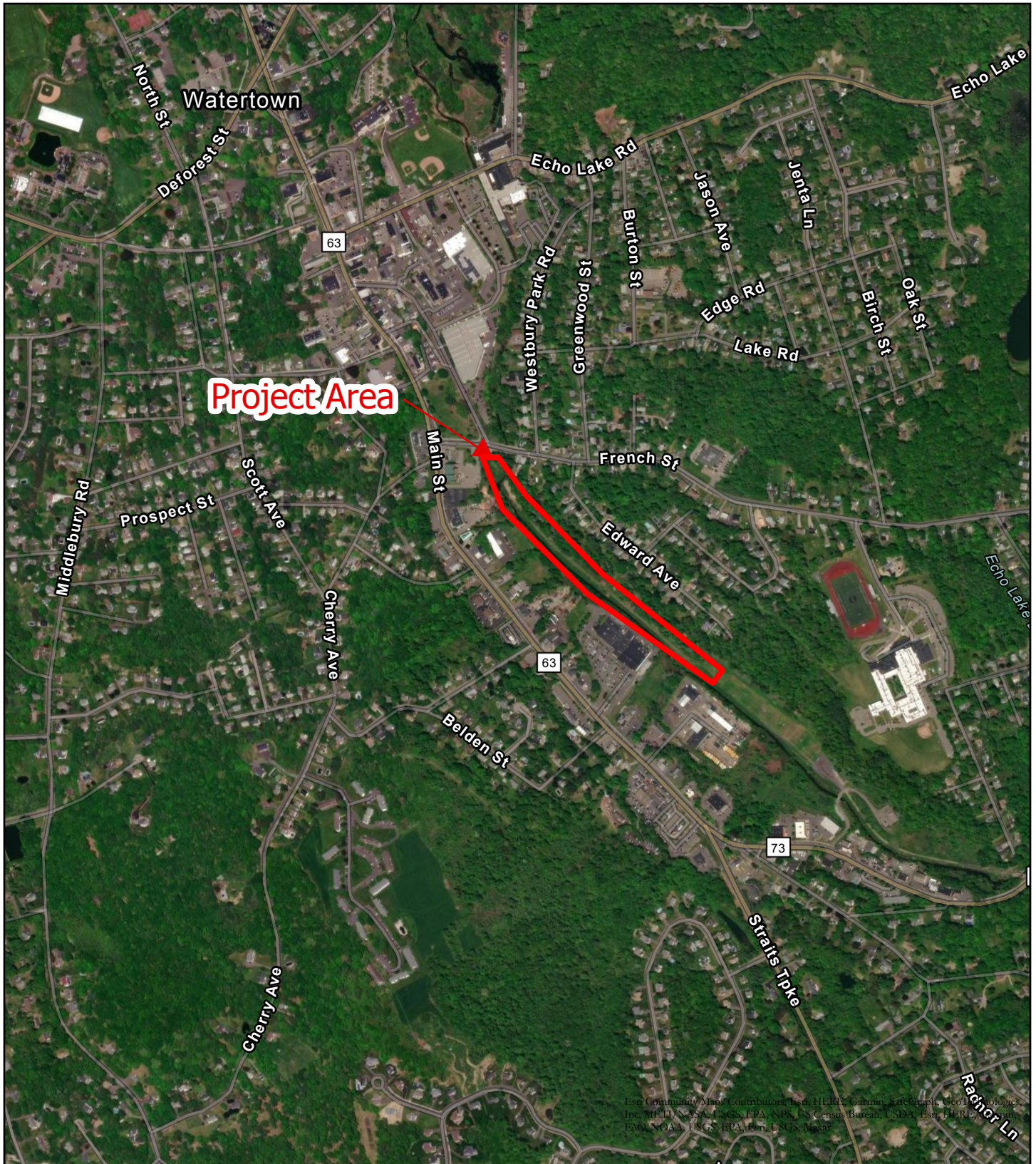
The preliminary estimated cost of construction was based on CT DOT 2015 *Cost Estimating Guidelines*. The total preliminary cost of construction is estimated to be approximately \$2,800,0000 for a construction year of 2025, which is more specifically itemized and provided in Appendix D.

12 SUBSTANDARD FEATURES

No substandard design features are anticipated.

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APPENDIX A
LOCATION MAP



Esri, Community Analyst Contributors, Esri, HERE, Garmin, Swire, DeLorme, GeoEye,
 Inc., MI, NASA, USGS, EPA, NPS, US Census Bureau, USDA, Esri, HERE, DeLorme,
 Esri, NOAA, USGS, EPA, Esri, USGS, Mapbox



<h2>FIGURE 1: LOCATION MAP</h2> <p>STEELE BROOK GREENWAY - WATERTOWN, CT</p>		DRAWN BY: LEC
		REFERENCE: NA
		DATE: 7/27/2023
		PROJECT #: ENG23-0694
Coordinate System: NAD 1983 2011 StatePlane Connecticut FIPS 0600 Ft US		

	0 0.1 0.2 Mi
	0 0.2 0.4 Km

APPENDIX B
PD DRAINAGE CHECKLIST

Project No.	153-125
Roadway	Steele Brook Greenway
Town	Watertown
Date	9/25/2023
Designed By	Raju Vasamsetti
Signature of Engineer	 (CT DOT Approved Hydraulic Engineer)

Preliminary Design Checklist (Plans 35% Complete)

Allow a 3-4 week review time.

The Preliminary Design Submission should include the following:

a. Preliminary Design Statement

The design statement should contain a narrative for the following:

1. Description of hydraulics and drainage involvement.
☒ Included ☐ Not Included ☐ Not Applicable
2. A list of existing culvert or bridge crossings for tributary areas:
 a.) > 81 ha (200 Acres) and < 2.59 km² (1 mi²)
 b.) > 2.59 km² (1 mi²)
☐ Included ☐ Not Included ☒ Not Applicable
3. Available fish passage information from the ConnDEP Fisheries Division.
☐ Included ☒ Not Included ☐ Not Applicable
4. Water diversions.
☐ Included ☐ Not Included ☒ Not Applicable
5. Justification for drainage design not consistent with the Drainage Manual criteria.
☐ Included ☐ Not Included ☒ Not Applicable
6. List of permit requirements (ie: FPM, SCEL, DAM, CAM, etc...).
☒ Included ☐ Not Included ☐ Not Applicable
7. Required detention designs.
☐ Included ☐ Not Included ☒ Not Applicable
8. Any unusual designs such as pumping stations.
☐ Included ☐ Not Included ☒ Not Applicable
9. Tidal Involvement.
☐ Included ☐ Not Included ☒ Not Applicable
10. Investigation of existing drainage concerns and/or problems. Contact Town/City maintenance departments for local road projects or ConnDOT Maintenance departments and district drainage engineer for State highway projects.
☐ Included ☐ Not Included ☒ Not Applicable

b. Plans, Profiles and available Cross Sections

1. Watercourses, perennial and intermittent should be shown and labeled.
☒ Included ☐ Not Included ☐ Not Applicable
2. Special drainage provisions such as sedimentation basins and/or non standard drainage structures.
☐ Included ☐ Not Included ☒ Not Applicable
3. Approximate slope limits.
☒ Included ☐ Not Included ☐ Not Applicable
4. Taking lines and property lines.
☒ Included ☐ Not Included ☐ Not Applicable
5. Existing ground line and existing structures.
☒ Included ☐ Not Included ☐ Not Applicable
6. Existing drainage rights from survey information.
☐ Included ☒ Not Included ☐ Not Applicable
7. Preliminary conceptual layout of proposed drainage system including channels, ditches and swales.
☒ Included ☐ Not Included ☐ Not Applicable
8. FEMA 100 year floodplain and/or SCEL shown and labeled.
☒ Included ☐ Not Included ☐ Not Applicable

c. Watershed Area Map

1. An overview contour map (100 or 200 scale contour map or USGS 2000 scale topographic map) for the project showing watershed areas for all cross culverts.
☒ Included ☐ Not Included ☐ Not Applicable

d. Structures with drainage areas > 2.59 km² (1 mi²)

1. Hydrology computations determining the drainage area and design discharge.
☒ Included ☐ Not Included ☐ Not Applicable
2. Preliminary hydraulic and scour computations for the structure type study alternatives (the above hydrology computations must be approved prior to the start of the preliminary hydraulic computations).
☒ Included ☐ Not Included ☐ Not Applicable

Provide justification for items **Not Included**. Justification should correspond to letter and number (e.g.: **a.1., b.1., c.1.**, etc...).

a.3. Fish Passage information will be researched by the subconsultant VHB and included in a future submittal.

c.1., d.1., and d.2. for the proposed pedestrian bridge over Steele Brook are provided in the Hydrology Report that was submitted to CTDOT.

APPENDIX C
NDDb REQUEST FORMS AND DOCUMENTATION

Generated by eNDDDB on:
8/24/2023

Raju Vasamsetti
WATERTOWN
61 Echo Lake Rd
Watertown, CT 06795
vasamsettir@wseinc.com

Subject: Steele Brook Greenway SPN No 153 125
Filing # 99820
NDDDB – New Determination Number: 202306185
Northern side of the UNICO Field and Steele Brook; spanning from the south side of French Street to the parking access drive at UNICO Field Watertown

Expiration Date: 8/24/2025

Based on current data maintained by the Natural Diversity Database (NDDDB) and housed in the DEEP ezFile portal, no extant populations of Federal or State Endangered, Threatened or Special Concern species (RCSA Sec. 26-306) are known to occur within the project area delineated for the Recreation, Greenway, Bicycle Path, Trail / New fields, parks, trails, Steele Brook Greenway SPN No 153 125.

This NDDDB – New determination may be utilized to fulfill the Endangered and Threatened Species requirements for state-issued permit applications, licenses, registration submissions, and authorizations. However, please be aware of the following limitations and conditions:

- This determination does not preclude the possibility that listed species may be encountered on site. Should this occur, a report must be submitted to the Natural Diversity Database promptly and additional action may be necessary to remain in compliance with certain state permits. Please fill out the [appropriate survey form](#) and follow the instructions for submittal.
- If your project involves preparing an Environmental Impact Assessment, this NDDDB consultation and determination should not be substituted for conducting biological field surveys assessing on-site habitat and species presence.
- This determination applies only to the project as described in the submission and summarized at the end of this letter. Please re-submit an updated Request for Review if the project's scope of work and/or timeframe changes, including if work has not begun by 8/24/2025.

The NDDDB – New determination for the Steele Brook Greenway SPN No 153 125 at Northern side of the UNICO Field and Steele Brook; spanning from the south side of French Street to the parking access drive at UNICO Field, Watertown as described in the submitted information and summarized

at the end of this document is valid for two years from the date on this letter.

Natural Diversity Database information includes all information regarding listed species available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey and cooperating units of DEEP, land owners, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Database and accessed through the ezFile portal as it becomes available.

This letter is computer generated and carries no signature. If however, any clarification is needed, or if you have further questions, please contact the following:

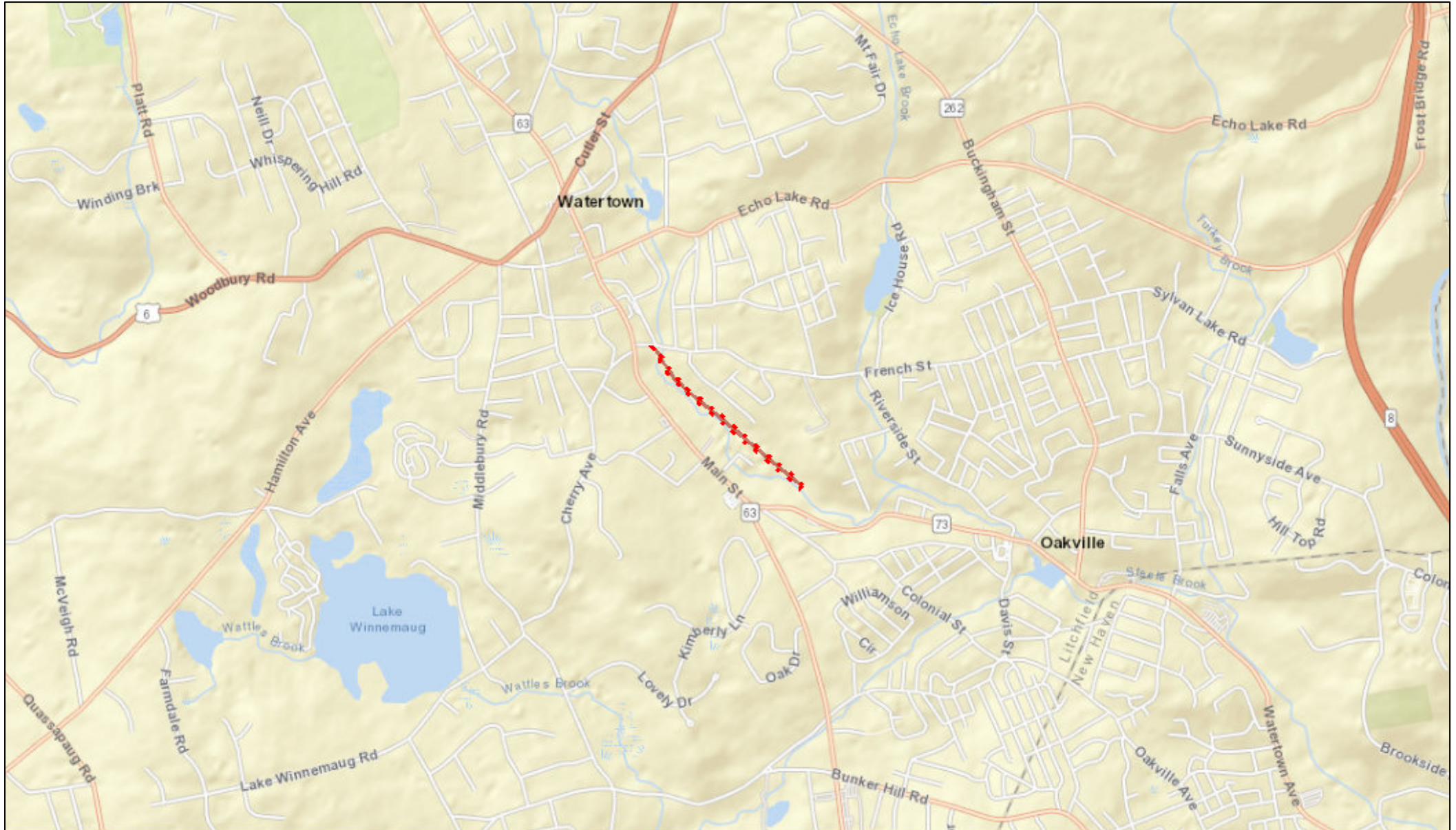
CT DEEP Bureau of Natural Resources
Wildlife Division
Natural Diversity Database
79 Elm Street, 6th floor
Hartford, CT 06106-5127
(860) 424-3011
deep.nddbrequest@ct.gov

Please reference the Determination Number provided in this letter when you e-mail or write. Thank you for submitting your project through DEEP's ezFile portal for Natural Diversity Database reviews.

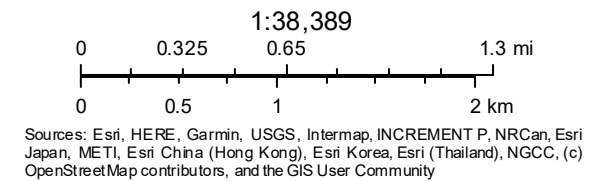
Application Details:

Project involves federal funds or federal permit:	Yes
Project involves state funds, state agency action, or relates to CEPA request:	Yes
Project requires state permit, license, registration, or authorization:	Yes
DEEP enforcement action related to project:	
Project Type:	Recreation, Greenway, Bicycle Path, Trail
Project Sub-type:	New fields, parks, trails
Project Name:	Steele Brook Greenway SPN No 153 125
Project Description:	Existing site contains as grassed/dirt pathway approximately 3,360', and approximately 400' of woods. Steele Brooks runs through the site and along the southern border.

Steele Brook Greenway SPN No 153 125 Map



August 24, 2023





Connecticut Department of
Energy & Environmental Protection
Bureau of Natural Resources
Wildlife Division

CPPU USE ONLY

App #: _____

Doc #: _____

Check #: No fee required

Program: Natural Diversity Database
Endangered Species

Hardcopy _____ Electronic _____

Request for Natural Diversity Data Base (NDDDB) State Listed Species Review

This form was auto-populated with information provided through the DEEP ezFile portal NDDDB review application.
There are no fees associated with NDDDB Reviews.

Part I: Preliminary Screening & Request Type

Before submitting this request, you must review the most current Natural Diversity Data Base "State and Federal Listed Species and Significant Natural Communities Maps" found on the [DEEP website](#). These maps are updated twice a year, usually in June and December.

This form is being submitted for a:

- ☒ New NDDDB request
- ☐ *Renewal of a NDDDB Request **without** modifications and within **two years** of issued NDDDB determination (no attachments required)*

[CPPU Use Only - NDDDB-Listed Species Determination # 1736]

- ☐ New **Safe Harbor Determination**; must be associated with an application for a GP for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (Attachment D of this form is required)
- ☐ *Renewal/Extension of an existing Safe Harbor Determination*
- ☐ With modifications
- ☐ Without modifications (no attachments required)

[CPPU Use Only - NDDDB-Safe Harbor Determination # 1736]

Enter NDDDB Determination Number for Renewal:

Enter Safe Harbor Determination Number for Renewal/Extension:

1. Does your project utilize federal funds or require a federal permit? ☒ Yes ☐ No

If yes, your project may be subject to Federal rules regarding the Northern long-eared bats or other federally listed species. Information on the Northern long-eared bat and the 4-D rule may be found at:

<http://www.fws.gov/midwest/endangered/mammals/nleb/>

Information on other federally listed species and Section 7 consultations may be found at:

<https://www.fws.gov/newengland/EndangeredSpec-Consultation.htm>

2. Does your project utilize state funding, involve state agency actions, or relate to a CEPA request?

☒ Yes ☐ No

3. Does your project require state permits, licenses, registrations or authorizations? ☒ Yes ☐ No

If yes, list permit type(s): Inland Wetlands - Water Quality Certificate/Army Corps of Engineers Permit, Stormwater Discharge - Construction

If an active enforcement action exists regarding this project, enter number:

If known, enter DEEP analysts reviewing this project:

II: Requester Information

If the requester is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of State. If applicable, the name shall be stated **exactly as it is registered with the Secretary of State. Please note, for those entities registered with the Secretary of State, the registered name will be the name used by DEEP. This information can be accessed at the Secretary of the State's database CONCORD. (www.concord-sots.ct.gov/CONCORD/index.jsp)*

If the requester is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).

If there are any changes or corrections to your company/facility or individual mailing or billing address or contact information, please complete and submit the [Request to Change company/Individual Information](#) to the address indicated on the form.

1. Requester*

Company Name: WATERTOWN

Contact Name: JERRY LUKOWSKI

Address: 61 Echo Lake Rd

City/Town: Watertown

State: CT

Zip Code: 06795

Business Phone: 8609455240 Ext:

**E-mail: lukowski@watertownct.org

****By providing this email address you are agreeing to receive official correspondence from the department, at this electronic address, concerning this request. Please remember to check your security settings to be sure you can receive emails from "ct.gov" addresses. Also, please notify the department if your e-mail address changes**

a) Requester can best be described as:

☐ Individual ☐ Federal Agency ☐ State agency

☒ Municipality ☐ Tribal ☐ *business entity (* if a business entity complete i through iii):

i) Check type ☐ corporation

☐ limited liability company

☐ limited partnership

☐ limited liability partnership

☐ statutory trust

☐ Other:

ii) Provide Secretary of the State Business ID #: This information can be accessed at the Secretary of the State's database (CONCORD). (www.concord-sots.ct.gov/CONCORD/index.jsp)

iii) ☒ Check here if your business is **NOT** registered with the Secretary of State's office.

b) Acting as (Affiliation), pick one:

☐ Property owner

☐ Consultant

☐ Engineer

☐ Facility owner

☒ Applicant

☐ Biologist

☐ Pesticide Applicator

☐ Other representative:

Part III: Site Information

This request can only be completed for one site. A separate request must be filed for each additional site.

SITE NAME AND LOCATION

Project Name (for use in correspondence): Steele Brook Greenway SPN No 153 125

If your Project site has a street address, please enter below:

Street Address:

Town(s):

If your Project has no street address, please enter a description of the site location:

Location Description: Northern side of the UNICO Field and Steele Brook; spanning from the south side of French Street to the parking access drive at UNICO Field

Town(s): Watertown

Size in acres, or site dimensions: 5.58

Describe existing land conditions:

Part IV: Project Information

1. **Project Type:**

Choose Project Category: Construction, Development

Choose Project Type: Recreation, Greenway, Bicycle Path, Trail

Choose Project Subtype: New fields, parks, trails

2. Brief Project Description: Existing site contains as grassed/dirt pathway approximately 3,360', and approximately 400' of woods. Steele Brooks runs through the site and along the southern border.
3. Provide a schedule for all phases of the project including the year, the month that the proposed activity will be initiated and the duration of the activity.
4. Is the subject activity limited to the maintenance, repair, or improvement of an existing structure within the existing footprint? ☐ Yes ☐ No If yes, add explanation in No. 4 below.
5. Give a detailed description of the activity which is the subject of this request and describe the methods and equipment that will be used. Include a description of steps that will be taken to minimize impacts to any known listed species.
6. If this is a renewal or extension of an existing Safe Harbor request *with* modifications, explain what about the project has changed.

Part VI: Supporting Documents

Check each attachment submitted as verification that *all* applicable attachments have been supplied with this request form. Label each attachment as indicated in this part (e.g., Attachment A, etc.) and be sure to include the requester's name, site name and the date. **Please note that Attachments A and B are required for all new requests. Attachment C is required for requests associated with: new state or federal permit applications, modifications of existing permits, permit enforcement actions, site management/planning that requires details species recommendations, and state funded projects, state agency activities, and CEPA requests.** Renewals/Extensions with no modifications do not need to submit any attachments. Attachments C and D are supplied at the end of this form.

<input checked="" type="checkbox"/> Attachment A:	Project Detail Map: an 8 1/2" X 11" print/copy of the relevant portion of a USGS Topographic Quadrangle Map clearly indicating the exact location of the site.
<input checked="" type="checkbox"/> Attachment B:	GIS file (for uploaded GIS polygons): fine scaled map showing site boundary and area of work details on aerial imagery with relevant landmarks labeled. (Site and work boundaries in GIS [ESRI ArcView shapefile, in NAD83, State Plane, feet] format can be substituted for detailed maps, see instruction document)
<input checked="" type="checkbox"/> Attachment C:	Supplemental Information (attached, DEEP-APP-007C): Site plans, photographs and biological reports
<input type="checkbox"/> Attachment D:	Safe Harbor Report Requirements (attached, DEEP-APP-007D)

Part VII: Requester Certification

The requester *and* the individual(s) responsible for actually preparing the request must sign this part. A request will be considered incomplete unless all required signatures are provided.

<p>"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief."</p>	
<p>Vasamsetti Raju</p>	<p>8/24/2023</p>
<p>Signature of Preparer (a typed name will substitute for a handwritten signature)</p> <p>Vasamsetti Raju</p>	<p>Date</p>
<p>Name of Preparer (print or type)</p>	<p>Title (if applicable)</p>
<p>Signature of Preparer (if different than above)</p>	<p>Date</p>
<p>Name of Preparer (print or type)</p>	<p>Title (if applicable)</p>

Note: Please submit the completed Request Form and all Supporting Documents to:

CENTRAL PERMIT PROCESSING UNIT
DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

Or email request to: deep.nddbrequest@ct.gov

Attachment C: Supplemental Information and Attachments

1. Existing & Proposed Conditions

If available provide site plans, drawings or imagery showing existing conditions and proposed changes. If not available, describe all natural and man-made features including wetlands, watercourses with direction of flow, fish and wildlife habitat, floodplains and any existing structures potentially affected by the subject activity. Such features should be depicted and labeled on the site plan.

☐ **Annotated Site Plan(s) attached**

2. **Photographs** depicting site conditions can be helpful to reviewers. Provide and label photographs, if available.

☐ **Site Photographs (optional) attached**

3. Biological Surveys

Has a biologist visited the site and conducted a biological survey to determine the presence of any endangered, threatened or special concern species ☐ Yes ☐ No

If yes, submit any reports of biological surveys, documentation of the biologist's qualifications, and any NDDB survey forms. Reports should include biologist(s) name, habitat and/or species targeted by survey, plant and animal species observed, dates when surveys were conducted.

☐ **Reports of biological surveys attached**

☐ **Documentation of biologist's qualifications attached**

☐ **[NDDB Survey forms](#) for any listed species observations attached**

Attachment D: Safe Harbor Report Requirements

Submit a report, as Attachment D, that synthesizes and analyzes the information listed below. Those providing synthesis and analysis need appropriate qualifications and experience. A request for a safe harbor determination shall include:

1. **Habitat Description and Map(s), including GIS mapping overlays, of a scale appropriate for the site, identifying:**

- wetlands, including wetland cover types;
- plant community types;

- topography;
 - soils;
 - bedrock geology;
 - floodplains, if any;
 - land use history; and
 - water quality classifications/criteria.
2. **Photographs** - The report should include photographs of the site taken from the ground and also all reasonably available aerial or satellite photographs and an analysis of such photographs.
 3. **Inspection** - A visual inspection(s) of the site should be conducted, preferably when the ground is visible, and described in the report. This inspection can be helpful in confirming or further evaluating the items noted above.
 4. **Biological Surveys** - The report should include all biological surveys of the site where construction activity will take place that are reasonably available to a registrant. A registrant shall notify the Department's Wildlife Division of biological studies of the site where construction activity will take place that a registrant is aware of but are not reasonably available to the registrant.
 5. **Based on items #1 through 4 above, the report shall include a Natural Resources Inventory of the site of the construction activity.** This inventory should also include a review of reasonably available scientific literature and any recommendations for minimizing adverse impacts from the proposed construction activity on listed species or their associated habitat.
 6. **In addition, to the extent the following is available at the time a safe harbor determination is requested, a request for a safe harbor determination shall include and assess:**
 - Information on Site Disturbance Estimates/Site Alteration information
 - Vehicular Use
 - Construction Activity Phasing Schedules, if any; and
 - Alteration of Drainage Patterns

APPENDIX D

PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COSTS

TOWN OF WATERTOWN, CT
STEELE BROOK GREENWAY
STATE PROJECT NO. 153-125 / FED. AID PROJ. NO. PEDS (229)

PRELIMINARY DESIGN
SUMMARY OF ESTIMATED PROBABLE CONSTRUCTION COSTS

Friday, September 29, 2023

WSE #: **ENG23-0694**
Estimated By: **AMN**
Checked By: **MJJ**

			<u>COST</u>
GREENWAY AND TRAFFIC ITEMS ¹			\$1,856,000.00
		Sub-Total:	\$ 1,856,000.00
CLEARING & GRUBBING ²	2 %	\$	37,120.00
MAINTENANCE AND PROTECTION OF TRAFFIC ²	2 %	\$	37,120.00
CONSTRUCTION STAKING ²	1 %	\$	18,560.00
MOBILIZATION AND PROJECT CLOSEOUT ²	6 %	\$	111,360.00
		Base Estimate:	\$ 2,060,160.00
CONTINGENCY ²	10 %	\$	206,016.00
Incidentals to Construction (State oversight)	11 %	\$	226,617.60
Incidentals to Construction (Consultant Inspection)	15 %	\$	309,024.00
		Total:	\$ 2,801,817.60
TOTAL ESTIMATED PROBABLE CONSTRUCTION COSTS:			\$ 2,802,000.00

¹ Itemized quantities provided on separate sheet

² As % of total contract items

PRELIMINARY DESIGN
STATE PROJECT NO. 153-125 / FED. AID PROJ. NO. PEDS (229)
WATERTOWN, CT
Friday, September 29, 2023

PREPARED BY: AMN
CHECKED BY: MJJ

NO.	ITEM	UNIT	QUANTITY	UNIT PRICE	AMOUNT
PARTICIPATING ITEMS					
0202000	EARTH EXCAVATION	C.Y.	1670	\$33.00	\$55,110.00
0202100	ROCK EXCAVATION	C.Y.	170	\$85.00	\$14,450.00
0202452A	TEST PIT	EA.	1	\$2,500.00	\$2,500.00
0202529	CUT BITUMINOUS CONCRETE PAVEMENT	L.F.	100	\$5.00	\$500.00
0202531	REMOVAL OF BITUMINOUS CONCRETE	S.Y.	5	\$25.00	\$127.78
0203000	STRUCTURE EXCAVATION -EARTH (COMPLETE)	C.Y.	15	\$86.00	\$1,290.00
0207000	BORROW	C.Y.	500	\$30.00	\$15,000.00
0209001	FORMATION OF SUBGRADE	S.Y.	6010	\$4.00	\$24,040.00
0211000	ANTI-TRACKING PAD	S.Y.	80	\$20.00	\$1,600.00
0212000	SUBBASE	C.Y.	1340	\$50.00	\$67,000.00
0213100	GRANULAR FILL	C.Y.	1880	\$80.00	\$150,400.00
0219001	SEDIMENTATION CONTROL SYSTEM	L.F.	3320	\$6.00	\$19,920.00
0219011A	SEDIMENTATION CONTROL SYSTEM AT CATCH BASIN	EA.	4	\$200.00	\$800.00
0304002	PROCESSED AGGREGATE BASE	C.Y.	1010	\$60.00	\$60,600.00
0406172	HMA S0.375	TON	480	\$187.00	\$89,760.00
0406173	HMA S0.25	TON	440	\$176.00	\$77,440.00
0406236	MATERIAL FOR TACK COAT	GAL.	600	\$14.00	\$8,400.00
0586650	RESET MANHOLE	EA.	1	\$1,200.00	\$1,200.00
0601064	ABUTMENT AND WALL CONCRETE	CY	34	\$1,500.00	\$51,000.00
0602030	DEFORMED BARS- GALVANIZED	LBS.	3570	\$4.50	\$16,065.00
0603324	PEDESTRIAN BRIDGE	LS	1	\$880,000.00	\$880,000.00
0703011	INTERMEDIATE RIPRAP	C.Y.	8	\$160.00	\$1,280.00
0728030	NO.3 CRUSHED STONE	C.F.	135	\$85.00	\$11,475.00
0751710	4" UNDERDRAIN	L.F.	85	\$35.00	\$2,975.00
0811001	CONCRETE CURBING	L.F.	100	\$47.00	\$4,700.00
0815001	BITUMINOUS CONCRETE LIP CURBING	L.F.	40	\$40.00	\$1,600.00
0901006A	COLLAPSIBLE STEEL BOLLARD (2 AT EACH TRAIL ENTRANCES AND BRIDGE)	EA.	8	\$1,000.00	\$8,000.00
0906203	SPLIT RAIL FENCE	L.F.	1290	\$20.00	\$25,800.00
0921001	CONCRETE SIDEWALK	S.F.	230	\$35.00	\$8,050.00
0921007	CONCRETE SIDEWALK RAMP	S.F.	150	\$31.00	\$4,650.00
0921048	DETECTABLE WARNING SURFACE	S.F.	20	\$45.00	\$900.00
0939001	SWEEPING FOR DUST CONTROL	HR.	120	\$50.00	\$6,000.00
0942001	CALCIUM CHLORIDE FOR DUST CONTROL	TON	3	\$500.00	\$1,500.00
0943001	WATER FOR DUST CONTROL	M. GAL.	410	\$4.00	\$1,640.00
0944000	FURNISHING AND PLACING TOPSOIL	S.Y.	6000	\$9.00	\$54,000.00
0950005	TURF ESTABLISHMENT	S.Y.	6000	\$2.00	\$12,000.00
0950013	EROSION CONTROL MATTING	S.Y.	780	\$10.00	\$7,800.00
0969062A	CONSTRUCTION FIELD OFFICE - MEDIUM	MO.	9	\$4,275.00	\$38,475.00
0970006	TRAFFICPERSON (MUNICIPAL POLICE OFFICER)	EST.	10000	\$1.00	\$10,000.00
0970007	TRAFFICPERSON (UNIFORMED FLAGGER)	HR.	80	\$32.00	\$2,560.00
0977001	TRAFFIC CONE	EA.	30	\$25.00	\$750.00
0978002	TRAFFIC DRUM	EA.	20	\$82.00	\$1,640.00
0992090A	BENCH	EA.	2	\$2,000.00	\$4,000.00
1117111	RECTANGULAR RAPID FLASHING BEACON (RRFB) TYPE B	EA.	2	\$12,500.00	\$25,000.00
1206023A	REMOVAL AND RELOCATION OF EXISTING SIGNS	L.S.	1	\$5,000.00	\$5,000.00
1208931A	SIGN FACE - SHEET ALUMINUM (TYPE IX RETROREFLECTIVE SHEETING)	S.F.	120	\$90.00	\$10,800.00
1208935	TRAIL HEAD SIGN	L.S.	1	\$5,000.00	\$5,000.00
1210101	4" WHITE EPOXY RESIN PAVEMENT MARKINGS	L.F.	800	\$1.20	\$960.00
1210105	EPOXY RESIN PAVEMENT MARKINGS, SYMBOLS AND LEGENDS	S.F.	100	\$6.50	\$650.00
1211002	REMOVAL OF PAINTED PAVEMENT MARKINGS	S.F.	10	\$1.50	\$15.00
1220027	CONSTRUCTION SIGNS	S.F.	300	\$21.00	\$6,300.00
	LANDSCAPING (PD ALLOWANCE)	L.S.	1	\$20,000.00	\$20,000.00
	LIGHTING & ELECTRICAL (SOLAR AND POWERED)	L.S.	1	\$35,000.00	\$35,000.00
	SUBTOTAL				\$1,855,722.78
				Rounded Subtotal	\$1,856,000.00

 Weston & Sampson