

TOWN OF NEWBURGH
TOWN ENGINEER

#12A

MEMORANDUM

TO: G. Piaquadio, Supervisor & Town Board
FROM: P. Hines, Rep Engineer 
DATE: 8 November 2022
RE: Orchard Hill Sewer District Sewer
Treatment Plant

The Orchard Hills Sewer District is served by a 120,000 gallon per day sanitary sewer treatment plant. The plant was originally constructed to serve the Orchard Hills multi-family housing project and Parr East condos. The sewer district was formed to purchase the treatment system from the original developer of the Orchard Hills project.

The sewer plant is a proprietary system manufactured by Santec Corporation. This is common practice that these 'Package Plants' be constructed by a single entity often with proprietary design and treatment components.

The plant is in need of repairs to certain components. Santec representatives have identified repairs which will require their specific components to meet the design intent of the overall treatment process. Since the components, brackets and hardware are manufactured by Santec to be compatible and integrate with the function of the unit, we are recommending the Town Board identify that Santec is a single source supplier.

The equipment proposed must be standardized to the Santec proprietary equipment to match the design of the components of the plant.

Cc: J. Osborne, Town Engineer
R. Clum, Town Accountant
M. Tayler, Town Attorney
L. Ayers, Town Clerk

#12B

TOWN OF NEWBURGH
TOWN ENGINEER

MEMORANDUM

TO: G. Piaquadio, Supervisor & Town Board
FROM: P. Hines, Rep Engineer *PH*
DATE: 8 November 2022
RE: Orchard Hill Sewer Plant Repairs

The manufacturer of the Orchard Hills Sewer Plant has completed a comprehensive evaluation of the facility. (Copy attached) Jim Osborne and I met with the contract operator H2O (Formally JCO) to discuss the report and actions required.

Two items identified require immediate attention in the opinion of the contract operator, they are

2F.ii.b Addition of Air Flow centralized box - \$4,357.00

2F.ii.c Clarifier weir replacement - \$35,000.00

We would recommend this work be contracted to be performed by Santec as a single source priority project. Funding for the project would have to be from borrowing from the Crossroads Sewer District pending rate increases in the next budget year.

We have asked the operators to evaluate the report to generate a priority list of items for future maintenance of the facility.

Town Board authorization for the initial repairs is required. The initial repairs will cost \$39,357.00

As this requires Town Board approval, I request it be put on the next available schedule.

Cc: J. Osborne, Town Engineer
R. Clum, Town Accountant
L. Ayers, Town Clerk

#12C

TOWN OF NEWBURGH
TOWN ENGINEER

MEMORANDUM

TO: G. Piaquadio, Supervisor & Town Board
FROM: P. Hines, Rep Engineer 
DATE: 10 November 2022
RE: Chadwick Lake Recreation and Senior
Center Project Survey Services

MHE Engineers has selected a proposal for professional services for necessary surveying required for the design of the proposed building and sanitary system for the project.

A proposal from Mercurio, Norton, Tarolli and Marshall is attached.

The scope of services are detailed in the proposal.

The cost for AREA 1 is \$15,000.00 and the cost for AREA 2 is \$9,100.00. Total cost for the boundary, topographic, tree and utilities survey is \$24,200.00.

Town Board action is required to authorize the necessary surveying services, I request it be put on the next available Town Board meeting schedule.

Cc: J. Osborne, Town Engineer
R. Clum, Town Accountant
J. Presutti, Commissioner of Parks
M. Taylor, Town Attorney
L. Ayers, Town Clerk

Lawrence J. Marshall, P.E.

John Tarolli, L.S.

Zachary A. Peters, P.E.

November 10, 2022

McGoey, Hauser & Edsall
Attn: Shawn Arnott
33 Airport Center Drive, Suite 202
New Windsor, NY 12553
via email: sarnott@mhepc.com

Re: Proposal No. 5325
Tax Parcel: 4-2-21
1702 Route 300
Town of Newburgh
Orange County
Partial Boundary Survey

Dear Mr. Arnott:

We are pleased to provide you with this proposal for professional services related to the completion of survey work for a portion of the parcel located at 1702 Route 300 in the Town of Newburgh, Orange County.

The subject parcel contains approximately 411.40 acres and is currently referenced as Town of Newburgh Tax Parcel Section 4, Block 2, Lot 21.

All work refers to a map entitled "New Recreation Center/Senior Center for the Town of Newburgh – Chadwick Lake Park" as prepared by MHE Engineering, dated May 13, 2022 (reduced copy enclosed).

Scope of Work

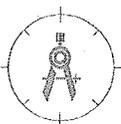
The following describes the work Mercurio-Norton-Tarolli-Marshall (MNTM) is prepared to complete for the subject parcel:

Area 1

Task 1-1: Boundary Survey – Area 1

MNTM will complete a Boundary Survey for the portion of the site identified as Area 1 on the referenced map. The survey will be completed to exceed current New York State Minimum Technical Standards for Land Surveys, Section 6 Urban Class, and will be in accordance with the current New York State Association of Professional Land Surveyors, and Delaware-Hudson Land Surveyors Association standards and will include the following:

- Survey of the perimeter of the subject parcel
- Check of adjoining owner's deeds for conformity
- Check for and location of any encroachments from neighboring parcels
- Identification of all neighboring property owners
- Location of edge of water bodies (streams, ponds, lakes, etc.)
- Conduct field measurements with the location of all visible manmade improvements



- Certified survey map signed by a Professional Licensed Land Surveyor
- Provide the completed survey in DWF and PDF format

Task 2-2: Topographic Survey – Area 2

MNTM will prepare topography for the portion of the site identified as Area 2. The topography will be completed utilizing a flight of the site with an unmanned aerial vehicle (UAV). The flight will generate an accurate, up to date orthoimage of the site as well as a LiDAR (Light Detection and Radar) surface that can be utilized for planning and design. The LiDAR surface will be supplemented with spot elevations obtained from conventional survey equipment. The topography will be displayed at 1-foot vertical intervals for the entirety of the subject parcels and the portions of the roadways on which the parcels front. Spot elevations will be provided at all important locations.

Note: for best results the photographs must be taken in leaf off conditions with no snow cover. This limits the time available to complete the topography in this manner.

Task 2-3: Tree Survey – Area 2

MNTM will locate all trees greater than 6" diameter at breast height (dbh) within the 1.83 acres outlined within Area 2 on the referenced map. If possible, the tree species will be identified (ie: oak, maple, elm, etc.).

Task 2-4: Utility Survey – Area 2

MNTM will locate all visible utilities on and near Area 2, including but not limited to: utility poles, catch basins, existing culvert pipe (including size and material type), marked underground utilities (including water, sewer, electric). All frames of catch basins and pipe inverts able to be measured will be provided on the final survey map

Note: the provided estimate assumes the property owner will be coordinating and paying for the underground utility markout.

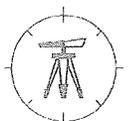
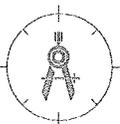
Fee Schedule

MNTM proposes to bill each task as indicated in the following Fee Schedule Summary. Invoices will be issued monthly for all services performed during that month and are payable upon receipt. Invoices not paid within 30 days of the date of the bill will be subject to an interest rate of 2.0% per month compounded.

<u>Task</u>	<u>Description</u>	<u>Estimated Fee</u>
1-1	Boundary Survey – Area 1	\$6,500.00
1-2	Topographic Survey – Area 1	\$5,800.00
1-3	Tree Survey – Area 1	\$1,900.00
1-4	Utility Survey – Area 1	\$900.00
2-1	Boundary Survey – Area 2	\$4,100.00
2-2	Topographic Survey – Area 2	\$2,600.00
2-3	Tree Survey – Area 2	\$1,300.00
2-4	Utility Survey – Area 2	\$1,100.00

retainer requested

50% of estimate fee



AUTHORIZATION TO PROCEED

THIS WILL AUTHORIZE MERCURIO-NORTON-TAROLLI-MARSHALL, ENGINEERING & LAND SURVEYING, P.C. TO PROCEED WITH PROFESSIONAL ENGINEERING AND/OR LAND SURVEYING SERVICES IN ACCORDANCE WITH THIS PROPOSAL AND CONFIRMS MY ACCEPTANCE OF ALL TERMS AND CONDITIONS.

THE FOLLOWING TERMS ARE PART OF THIS AGREEMENT:

1. THIS PROPOSAL IS VALID FOR 60 DAYS FROM THE DATE OF PROPOSAL.
2. BY SIGNING BELOW, YOU HAVE CERTIFIED THAT YOU HAVE REVIEWED THE TAX PARCELS LISTED IN THE PRECEDING ESTIMATE AND HAVE CONFIRMED THEY ARE THE PARCELS ON WHICH WORK IS TO BE COMPLETED
3. BY SIGNING BELOW, YOU HAVE VERIFIED THAT THERE ARE NO ACTIVE OR PENDING LEGAL DISPUTES IN TITLE ON THE SUBJECT PARCEL
4. INVOICING WILL BE ON A MONTHLY BASIS AND WILL INCLUDE BILLING FOR WORK COMPLETED TO DATE. PAYMENT IS DUE UPON RECEIPT OF THE INVOICE. INTEREST CHARGES OF 2.0% PER MONTH MAY BE APPLIED TO ANY OUTSTANDING INVOICE AFTER 30 DAYS.
5. ANY FEES INCURRED BY MNTM DUE TO COLLECTION OF OUTSTANDING INVOICES WILL BE CHARGED TO THE CLIENT.
6. MERCURIO-NORTON-TAROLLI-MARSHALL, ENGINEERING & LAND SURVEYING, P.C., RESERVES THE RIGHT TO STOP WORK IF PAYMENT IS NOT RECEIVED WITHIN 30 DAYS.
7. ~~MERCURIO-NORTON-TAROLLI-MARSHALL, ENGINEERING & LAND SURVEYING, P.C. RETAINS THE RIGHTS TO ANY AUTOCAD DRAWINGS CREATED FOR THIS WORK. RELEASING OF DIGITAL FILES WILL BE PROVIDED UPON REQUEST AND ONLY AFTER A HOLD HARMLESS RELEASE STATEMENT HAS BEEN RECEIVED. THERE IS A MINIMUM FEE OF \$500.00 FOR THE PREPARATION AND RELEASE OF DIGITAL FILES.~~

NAME:

POSITION:

COMPANY:

DATE:

SIGNATURE:

OFFICE TELEPHONE:

CELLULAR TELEPHONE:

ALTERNATE TELEPHONE:

E-MAIL ADDRESS:

MAILING ADDRESS:

DATE: November 10, 2022

Proposal No. 5325

