



YOUR GOALS. OUR MISSION.

TFLSOH-16002

November 13, 2023

Via Email

Charles Terefenko, Borough Administrator
Borough of Tinton Falls
556 Tinton Avenue
Tinton Falls, New Jersey 07724

**Re: 2024 Road Improvement Program
Scope and Fee Estimate for Design Services**

Dear Mr. Terefenko:

T&M Associates is pleased to submit this Scope and Fee Estimate for Professional Services associated with the Borough's 2024 Road Improvement Program. It is our understanding that the Borough has budgeted for roadway and drainage improvements to a number of streets throughout the Borough. The following is the proposed scope of improvements for the 2024 Road Improvement Program:

Essex Road (Seabrook Village to Tinton Falls Municipal Boundary with Neptune)

- The Borough previously received a FY 2023 NJDOT grant for \$219,420 for this street. This will be Proposal 'A' under the contract.
- Full width mill and overlay with base repair as needed.
- Approximately 315 LF of new steel guiderail proposed on the west side of the street to replace the existing timber guiderail in kind.
- New sidewalk to be constructed along the frontage of #349 Essex Road to extend the existing sidewalk to the outlet mall driveway. A rectangular rapid flashing beacon (RRFB) is also proposed at this new crossing.
- The curve of Essex Road (at west side of #301 Essex) will be widened slightly on the east side to provide a smoother/larger radius. In addition, there is a failed drainage crossing at this location that will be removed and replaced with two inlets, a pipe crossing, and a new discharge with a headwall and scour hole. It is assumed no NJDEP permits will be needed for this work.
- Select concrete curb and sidewalk repairs proposed as needed.
- As a separate proposal, we will also extend the limits of milling and paving from the Municipal Boundary (near the entrance to the outlets) to Jumping Brook Road. This will include milling, resurfacing, and new striping.

Wardell Road (Maywood Run North to Fox Chase Drive)

- The Borough previously received a Monmouth County CDBG grant in the amount of \$161,000. Full width mill and overlay with base repair as needed. This will be proposal 'B' under the contract.
- New concrete curb and sidewalk proposed from Maywood Run South to Appaloosa Run. Replacement of existing ADA ramp at Appaloosa Run.
- Installation of new drainage pipe and inlets between Maywood Run South and Appaloosa Run to address chronic ponding issues. Adjustments to curb profile as necessary to eliminate ponding. Drainage is to connect to existing inlet at southeast corner of Maywood Run South.

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- New crossing and handicap ramps proposed to cross Wardell Road to enter the park (northwest side of the driveway). Extension of the sidewalk from Wardell Road to the existing sidewalk at the playground. A rectangular rapid flashing beacon (RRFB) will also be installed at this new crossing. This scope includes hard-wiring same.
- Select concrete curb and sidewalk repairs as needed.
- Existing inlet upgrades as needed.

Hockhockson Road (Squankum Road to Sam Drive)

- The Borough applied for a FY 2024 NJDOT Municipal Aid grant for this road, but grant awards have not yet been announced. If awarded this will be Proposal 'C' under the contract.
- Full width mill and overlay with base repair as needed.
- Between Squankum Road and the park, proposed roadway widening as needed to provide a more consistent width.
- Installation of new concrete curb where missing along full limits.
- Address chronic ponding and low spot along the east side of the road near the southern baseball field. Re-grading and/or a new inlet may be required.
- Addition of new drainage along the south side of the road between the park and Sam Drive if needed due to new curb construction.
- Select concrete curb and sidewalk repairs as needed.
- Existing inlet upgrades as needed.

Proposal 'D' – Base Bid Items:

West Park Avenue (Shafto Road to Heritage Boulevard)

- Full width mill and overlay with base repair as needed.
- New crossing and handicap ramps proposed to cross West Park Ave at Samantha Drive.
- Select concrete curb and sidewalk repairs as needed.
- Existing inlet upgrades as needed.

Willshire Drive (Entire Length)

Wilkins Court (Entire Length)

- Replace existing concrete curbs on both sides for full limits. Significant grading changes are not anticipated. 4" curb reveal likely required.
- Milling and paving specifications will need to be determined based on field evaluation and pavement cores. Nearby Wellington Drive required full reconstruction due to closely spaced transverse cracks throughout limits.
- Replace handicap ramp at Tinton Avenue.
- Existing inlet upgrades as needed.

Firehouse Road (Entire Length)

Blossom Street (Entire Length)

Clover Street (Entire Length)

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Peach Street (Hance Avenue to Springdale Avenue)

Glassboro Drive (Entire Length)

Dartmouth Court (Entire Length)

Princeton Court (Entire Length)

Trent Road (Entire Length)

Andrew Drive (Entire Length)

- Full width mill and overlay with base repair as needed.
- Select Belgian block or concrete curb and sidewalk repairs as needed.
- Existing inlet upgrades as needed.

Hamilton Road (Squankum Road to north end of cul-de-sac)

- Full depth pavement reconstruction.
- Select concrete curb repairs as needed.
- Existing inlet upgrades as needed.

Colonial Drive (Entire Length)

- Full width mill and overlay with base repair as needed.
- Select Belgian block and concrete curb repairs as needed.
- Approximately 2,100 LF of new underdrain to address high groundwater and sump pump discharges.
- Existing inlet upgrades as needed.

Harvard Drive (Entire Length)

- Full width mill and overlay with base repair as needed.
- New Belgian block curb on east side of road at southern end where none exists. Road may need to be widened slightly in this area to maintain consistent width.
- Select Belgian block curb repairs as needed.
- Existing inlet upgrades as needed.

Penn Court (Entire Length)

Duke Court (Entire Length)

St. John's Court (Entire Length)

Brown Drive (Entire Length)

- Full width mill and overlay with base repair as needed.
- New underdrains to address high groundwater and sump pump discharges.
- Select Belgian block curb repairs as needed.
- Existing inlet upgrades as needed.

Pearl Harbor Road (Corregidor Road to Corput Plaza Drive)

- Will be listed as Add Alternate No. 1.

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- Extend the existing modular block retaining wall on the west side of the road from Corredgidor Road to Corput Plaza (DPW driveway). This is approximately 280 LF.
- This wall borders the Tinton Falls DPW yard.
- Scope will include survey from EOP to top of slope with a wall design including TOW/BOW grades.
- Scope assumes wall height is less than 4' and will not require structural engineering.

In order to achieve the Borough's objectives, we propose the following scope of services.

A. PRE-DESIGN PHASE

1. The following field survey shall be completed by conventional "on the ground" methods via our subconsultant GEOD Corporation:
 - a. Essex Drive – half width survey in the area of the guide rail to be replaced.
 - b. Wardell Road – from Maywood Run South to Appaloosa Run.
 - c. Hockhockson Road – Squankum Road to Orla Court.
 - d. Wilshire Drive – limited survey for entire length.
 - e. Harvard Drive – Half-width survey along eastern portion of the road from intersection of Hockhockson Road approximately to 650 LF north of same.
 - f. Pearl Harbor Road – from EOP to top of slope in location of extended retaining wall.
2. For the remaining streets, and the areas of road outside of the proposed survey limits, base maps will be prepared using aerial mapping and field measurements.
3. We will coordinate a pavement coring program with a subcontractor in order to determine the depth of the existing pavement on all roads.
4. Base maps will be prepared at a scale of 1" = 20' based on the topographic survey and/or site visits in conjunction with aerial photography. Tax map accuracy right-of-way lines will be shown on the base maps.
5. We will complete a field investigation with the base maps to note limits of work and other constraints to be considered during the design.
6. Copies of the base maps will be forwarded to each utility company so they can verify the location and sizes of their facilities. We will also inquire whether they have plans for future relocation or expansion. We also suggest that the Borough verify that sanitary sewer facilities are in good condition.

B. DESIGN PHASE

1. Once field surveys have been completed and base maps prepared at a scale of 1" = 20', a preliminary design for each street will be prepared and will include the following items:
 - a. Graphical horizontal geometry denoting pavement widths, limits of curb and sidewalk, approximate limits of reconstruction, and existing right-of-way lines based on Borough Tax Maps.

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- b. Grading and drainage improvements.
 - c. Proposed typical sections.
 - d. A preliminary construction cost estimate.
 - e. Electrical design for RRFB lights at Wardell Park and Essex Street:
 - (i) New Electric Service
 - (ii) Electrical Site plan drawing (using existing base maps/survey by others).
 - (iii) Wire/conduit sizing, voltage drop calculations
 - (iv) Signed/sealed electrical drawings for bidding and electrical permits
 - f. Guide Rail design:
 - (i) Both the existing timber guide rail and steel guide rail will require replacement in conformance with current NJDOT standards which utilize the MASH crash tested 31" Midwest Guiderail System (MGS).
 - (ii) T&M will review the location of existing utility poles to ensure that no poles remain within 25' of the guide rail end treatments or are located in any recovery areas behind the end treatments.
 - (iii) To minimize utility impacts, we will evaluate extending guide rail past the length of need in order to remain clear of the utility conflicts.
 - g. The preliminary plans will be reviewed with appropriate Borough officials prior to proceeding with final design.
2. Final construction plans will be prepared in AutoCAD and consist of the following:
 - a. Title sheet with key map;
 - b. Standard Legend and Typical Section Sheet;
 - c. Construction and Layout Plan Sheets;
 - d. Existing Conditions and Grading/Drainage Plan Sheets, as required by the engineer;
 - e. Electrical Layout Sheets.
 - f. Guide Rail Design Sheets.
 - g. Soil Erosion and Sediment Control Plans;
 - h. Maintenance and Protection of Traffic Plan; and
 - i. Construction Details Sheets.
 - j. Electrical Detail Sheets.
 3. Quantities will be estimated by item, and a final construction cost estimate will be provided.
 4. Specifications will be prepared in book form, in T&M Associates' format, based on the 2019 New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction.
 5. An application for soil erosion and sediment control certification will be prepared and submitted by T&M Associates to the Freehold Soil Conservation District on behalf of the Borough. Any application fees will be paid separately by the Borough and are not included in this proposal. We do not anticipate that any other permits will be required by the Borough for this project. If it is determined during design that any other permits are required (such as NJDEP), a separate scope and fee estimate will be provided for those services. The

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Contractor will be responsible for obtaining a Monmouth County Road Opening Permit for any work on County roads, if applicable.

6. We will coordinate with NJDOT and CDBG to obtain authorization to advertise the project for bids and ensure all necessary bid package requirements are included in the bid documents.
7. We will coordinate with Monmouth County to review the plans and specifications for those roadways or sidewalks that intersect County roadways, if applicable.
8. We will submit final plans and specifications to the Borough for final review prior to the preparation of bid documents.

C. BIDDING PHASE

1. Upon completion of the plans and specifications and receipt of NJDOT and CDBG authorization to advertise, we will present the project to the Borough requesting approval to advertise the project for bids. T&M Associates will print and distribute the contract documents, including final plans and specifications, to prospective contractors. The cost of the printing will be offset by the purchase price of the plans and specifications.
2. T&M Associates will answer questions that arise during the bidding phase of the project, either from Borough officials or prospective bidders.

Please be advised that this scope and fee estimate does not include services for contract administration and construction services at this time. A separate proposal will be prepared for these services once design is complete if it should be requested.

FEES

We are prepared to proceed upon your authorization and suggest a fee of **\$295,000.00** to be billed monthly utilizing our current billing rate schedule.

On behalf of T&M Associates, I would like to thank you and the Governing Body for the opportunity to submit this Proposal and look forward to working with you and members of your staff in the future.

Le: Charles Terefenko, Borough Administrator

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Very truly yours,

T&M ASSOCIATES



MICHAEL C. MACFARLANE, P.E., C.M.E.
TINTON FALLS CONSULTING ENGINEER



EDWARD HERRMAN, P.E., P.P., C.M.E., C.F.M.
DEPARTMENT MANAGER

MCM

**Cc: Thomas Fallon, CFO
Michelle Hutchison, Borough Clerk
Shanon Rathyen, Purchasing Agent
Thomas Neff, Borough Engineer
Mark Shaffery, Director of Public Works**