

BOROUGH OF ALPHA

**GENERAL CAPITAL PROJECTS AND WATER UTILITY
ENGINEERING STATUS REPORT**

May 23, 2017



PREPARED BY:

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ACTION ITEMS

1. The NJDOT Municipal Aid Applications are being requested for projects eligible under the Transportation Trust Fund. Projects such as roadways, bikeways, pedestrian safety improvements and streetscapes. We transmitted a proposal to the Borough for consideration to prepare the application on behalf of the Borough. The borough authorized us to submit applications for 5th Avenue Phase II (East Central Avenue to East Vulcanite Avenue) and North Boulevard (Park Avenue to West Avenue) for \$2,000. We are preparing the applications now as they are due on February 3, 2017. Council pass a resolution for each grant application at their Monday January 23, 2017 Council meeting and the applications were submitted on February 2, 2017.
2. We have prepared the application for a Preliminary Assessment (PA) Grant for the Leigh Fuel Corp Property. The requested grant amount is \$3,000 and the Borough would not be responsible for any portion of it. The following is necessary for the application

- Proof of ownership interest (tax sale certificate, deed, or resolution to acquire property by voluntary conveyance)
- Resolution that public entity authorized to apply to HDSRF for the remediation of a discharge/ suspected discharge.
- Comprehensive redevelopment plan or resolution (indicating a realistic opportunity exists to develop within three years following completion of the remediation).

Both resolutions were approved by Council at the October 27, 2015 meeting. We received from the Borough's Tax Collector the tax sale certificate. The Mayor has signed the application and it has been submitted to the Funding Agency. The grant application is being reviewed now by the Funding Agency and we expect a response in July 2016. The NJDEP needs verification of the property owner and we are researching it for verification to the NJDEP.

CAPITAL IMPROVEMENT AND GENERAL ENGINEERING PROJECTS

1. RECREATION COMPLEX CONCEPTUAL PLAN AND ESTIMATE

We have prepared a base plan of existing conditions and utilizing information from Council and the public meeting we developed two (2) concept plans for review and discussion purposes. Councilwoman Schwar met with the Recreation Association to obtain input. A Plan of Action was recently sent to Green Acres with timelines established. Enrich Hornung of David Hornung Architect Planner Inc made a presentation to Council at the June 25, 2013 Council Meeting regarding transformation of the pool into a skate park. There was also more discussion regarding opening the pool again. Additional discussion occurred at the February 25, 2014 Council meeting and opening of the pool is now being considered. Council needs to determine their plans for the pool and advise Green Acres. Council has decided to open the pool and they need to prepare a plan of action or make some type of progress with opening it as Green Acres is due to inspect the pool again in 2015.

2 FIREHOUSE GENERATOR – FEMA MITIGATION GRANT

ESTIMATED COMPLETION OF DESIGN: Complete

ESTIMATED COMPLETION OF CONSTRUCTION: March 2017

CONSTRUCTION COST: \$48,000

FEMA GRANT AMOUNT: \$52,000

CONTRACTOR: Sampson Concrete

A letter of intent for the installation of an emergency generator was submitted to request a FEMA Mitigation Grant. The letter was submitted electronically on January 31, 2013. FEMA recently informed us they will provide a 50,000 grant with a 10 % match from the Borough. The Borough has accepted the grant with the understanding that if there are any additional funds, it would be provided to the Borough as part of the grant. We attended a seminar regarding the Grant on February 12, 2014. We need to complete the Grant Agreement on line now that we are a registered user. We have verified that there are no State Contracts for purchase and install; just purchase. Thus we will need to publically bid the work and have provided the Borough a proposal to prepare plans and publically advertise the project for construction bids. We continue to push for additional grant dollars. We completed additional documents consisting of photographs, site plan and a questionnaire and it was submitted to NJOEM as requested. Further information was recently requested and was provided. We have requested the Fire Companies annual budget which NJOEM also desires. The NJOEM has now requested further information on the Firehouse person capacity and square footage and we provided it to them on April 10, 2015. The Grant has been received in the amount of \$111,739.00. Council has authorized us to perform the engineering services for the project. We attended a kick-off meeting with NJOEM and before any work can be done the agreement needs to be signed in duplicate and send to NJOEM. Recent correspondence has indicated that the funding amount announced was a mistake. A revised agreement has been provided for NJOEM and the agreement has been executed by the Borough. We are preparing construction documents for public bidding. We met with Fireman personal to review the construction documents and some revisions were necessary which we completed. Final construction documents are complete and Council authorized advertisement at the March 8, 2016 Council Meeting. Bids were received on April 7, 2016 and the project was awarded to Sampson Concrete at the May 24, 2016 Borough Council Meeting and contracts were prepared and transmitted to the contractor. The preconstruction meeting was held on July 27, 2016 and the contractor was issued the Notice to Proceed (NTP). The generator shop drawing was provided to our office and returned to the contractor marked as approved. The generator is installed. The gas service has been installed. The generated was started and testing occurred. The test results are acceptable. The manufacturer returned to the site on April 11, 2017 to connect the generator to the Firehouse computer wires that were installed by the Fire Company so it can be monitored. Grading and seeding was completed at the generator pad and final payment is being recommended to council. Close-out documents including reimbursement from FEMA are being prepared and coordinated with the contractor and Borough CFO.

3. HOMA LANE DRAINAGE IMPROVEMENTS

ESTIMATED COMPLETION OF DESIGN: February 2017

ESTIMATED COMPLETION OF CONSTRUCTION: To Be Determined

ESTIMATED CONSTRUCTION COST: \$250,000

CONTRACTOR: To Be Determined

Field survey including the wetlands delineation is complete. Base plans are complete and we began the hydraulic modeling. A NJDEP pre-application meeting was held on September 26, 2016. Hydraulic design and the plans are complete. The Borough needs to provide the certified property owner list within 200 feet of the project for notification under the NJDEP application requirement. A draft Phase IA study has been completed and will be submitted with the NJDEP application. The Phase IA is recommending a Phase IB but the NJDEP will make that determination. The plans and NJDEP application is complete. The certified property owner list has been completed and sent to our office. The NJDEP applications were submitted to the NJDEP on January 25, 2017. We received comments from the NJDEP on our submitted application and we are addressing the comments. Mitigation requirements are being reviewed by the NJDEP. A meeting occurred with the NJDEP for May 3, 2017 NJDEP to discuss the mitigation. The NJDEP new rule changes will allow the culverts to be replaced under Homa Lane assuming it can be proven Homa Lane overtops during small rain events. This will be a less expensive option for the Borough but will need permission from the Homa's to replace the culvert. Discussion with the Homa's need to occur to determine if permission will be granted to replace the culvert.

4. BENKE FIELD BLEACHER AND RECREATIONAL COMPLEX PAVILION ROOF REPLACEMENT

ESTIMATED COMPLETION OF DESIGN: Complete

ESTIMATED COMPLETION OF CONSTRUCTION: March 2017

CONSTRUCTION COST: \$113,420.00

CONTRACTOR: V&K Construction Inc

The construction documents are complete and we were authorized at the August 23, 2016 Council Meeting to advertise for construction bids. Construction bids were received on September 23, 2016 and V&K Construction was the low bid at \$113,420.00. Council awarded the construction contract at their September 27, 2016 meeting. Contracts have been executed and a Notice to Proceed has been sent to the contractor. The roof panels shop drawing has been approved including the color and is being fabricated. A pre-construction meeting was held on October 18, 2016. Construction has started and the pavilion roof has been removed. Material lead time has delayed the roof fabrication. The roof panels have been received. The contractor completed the painting and delivered the steel framing to the site. The pavilion roof and the Benke Field dug-outs roofs are completed. The Benke Bleacher roof was installed incorrectly at the two roof angle points by the contractor. The Benke bleacher roof is complete. Close-out documents are being prepared.

5. MUNICIPAL POOL RENOVATIONS

ESTIMATED COMPLETION OF DESIGN: Complete
ESTIMATED COMPLETION OF CONSTRUCTION: June 2017
CONSTRUCTION COST: \$600,000.00
CONTRACTOR: TBD

We performed a site visit to obtain information and measurements. Construction documents are being prepared. We met with the Borough to review and confirm open items. We are completing the construction documents for public advertisement in Late January/Early February 2017. Borough Council authorized advertisement of the project for public bid at their Monday January 23, 2017 Council Meeting. We met with Council on February 7, 2017 to adjust the scope of work for the construction and an addendum was issued. Bids were received for the pool and pool house contract only on February 22, 2017 but no bids were received for the Building. A bid tabulation was completed and sent to the Borough. The Borough rejected the bids at their February 27, 2017 meeting.

WATER PROJECTS

1. 2016 UTILITY IMPROVEMENTS

ESTIMATED COMPLETION OF DESIGN: August 2016
ESTIMATED COMPLETION OF CONSTRUCTION: 120 Days upon issuing Notice to Proceed
ESTIMATED CONSTRUCTION COST: \$900,000
CONTRACTOR: Penn Bower

The project has been surveyed and base plans are being generated so that the project can be designed. Upon completion of the preliminary plans and specifications, we will meet with the Director of Public Works to review the plans prior to authorization to advertise.

Work within the County ROW was completed at night on May 19th. The contractor is being provided a punchlist for completion.

2. FRACE WTP BACKWASH NEUTRALIZATION TANK

ESTIMATED COMPLETION OF DESIGN: TBD
ESTIMATED COMPLETION OF CONSTRUCTION: TBSD
ESTIMATED CONSTRUCTION COST: TBD
CONTRACTOR: TBD

The project is currently being designed. We will meet with the Director of Public Works to review the plans prior to authorization to advertise.

We are examining the feasibility of installing static mixers and /or an oversized pipe to allow proper mixing / neutralization of the back wash water.

3. **TREATMENT PLANT – REDUNDANCY DESIGN**
ESTIMATED COMPLETION OF DESIGN: Complete
ESTIMATED COMPLETION OF CONSTRUCTION: February 27, 2017
ESTIMATED CONSTRUCTION COST: \$190,000.00 (negotiated price)
CONTRACTOR: Pact Two Construction

The piping at Pursel is complete. A status meeting was held on November 3rd with the contractor and Borough. All long lead equipment has been ordered.

Start up is scheduled for May 23rd.

4. **NJPDES PERMIT – INDUSTRIAL DRIVE LANDFILL DISRUPTION PERMIT**
ESTIMATED COMPLETION OF DESIGN: November 2017
ESTIMATED COMPLETION OF CONSTRUCTION: NA
ESTIMATED CONSTRUCTION COST: NA
CONTRACTOR: NA

The survey of the work area is complete and base plans are being prepared. The permit application is being prepared to show the improvements to the landfill. We will review the plans with the Borough prior to finalizing the permit application and submission to the NJDEP.

The permit application has been submitted to the NJDEP.

5. **FRACE WTP – OVERBOARD PIPING MODIFICATIONS**
ESTIMATED COMPLETION OF DESIGN: March 1, 2017
ESTIMATED COMPLETION OF CONSTRUCTION: NA
ESTIMATED CONSTRUCTION COST: NA
CONTRACTOR: NA

The plans to modify the overboard piping and install an inlet in the WTP parking lot are being prepared. We are also preparing a Quotation Package to obtain pricing from prospective contractors.

- 6 **DISINFECTION MODIFICATIONS – FRACE STREET**
ESTIMATED COMPLETION OF DESIGN: May 2016
ESTIMATED COMPLETION OF CONSTRUCTION: TBD

ESTIMATED CONSTRUCTION COST: \$90,000.00
CONTRACTOR: TBD

We are currently working on the disinfection modifications for Frace Street WTP. It is proposed to utilize an Accutab system which makes chlorine, as needed, from calcium hypochlorite “pucks”. This system will replace the existing chlorine gas system.

We are working with the operator to obtain current analytical data from the raw and treated water streams. This information will assist us in selecting the appropriate chlorination “puck”. After sizing and selecting of the disinfection equipment, we are required to submit this information to the NJDEP to obtain a permit. This permit is required for any changes in disinfection.

Part of the application will include address “chlorine contact time” as part of the new disinfection method. To accomplish this, an oversized pipe will be designed to be installed in the WTP driveway.

We are proceeding with the disinfection modifications. We will be taking a sample of the raw water for final chemical determination

7. ACID STORAGE TANK – FRACE STREET WTP
ESTIMATED COMPLETION OF DESIGN: April 2016
ESTIMATED COMPLETION OF CONSTRUCTION: TBD
ESTIMATED CONSTRUCTION COST: TBD
CONTRACTOR: TBD

We have been requested to identify a new storage tank for the sulfuric acid used in the backwash process for the water softener process. The existing tank is original in nature and is oriented which makes working around the tank and associated chemical feed pumps problematic.

We have identified a vertical, double wall storage tank that may fit in the same location as the existing tank. However, the new tank does not resolve the space limitations. Accordingly, we are researching alternative tanks sizes and manufacturers for a tank to better suit the space limitations.

We have met with the Borough and review the potential tank in the field. We will be looking for additional tanks that better fit the existing space.

SANITARY PROJECTS

1. SANITARY CIPP IMPROVEMENTS – RAILROAD UNDERPASS
ESTIMATED COMPLETION OF DESIGN: April 2017
ESTIMATED COMPLETION OF CONSTRUCTION: 5 Days upon issuing Notice to Proceed
ESTIMATED CONSTRUCTION COST: \$17,500
CONTRACTOR: TBD

We have prepared the quotation package and have solicited three (3) quotes. The low quote was provided and awarded to National Water Main Cleaning Company in the amount of \$16,592.50.

The Pre-Construction Meeting for the project was completed on May 17th. The first phase of work is scheduled for May 24th.

2. **SANITARY REPLACEMENTS – SOUTH BOULEVARD**
ESTIMATED COMPLETION OF DESIGN: April 2017
ESTIMATED COMPLETION OF CONSTRUCTION: 30 Days upon issuing Notice to Proceed
ESTIMATED CONSTRUCTION COST: \$75,000
CONTRACTOR: TBD

We are in the process of preparing design documents to publicly bid the replacement of the section of South Boulevard sanitary main between Manhole 30A and 29A.

The project is re-advertised with bids due on May 23rd.

3. **SANITARY MANHOLE REPAIRS**
ESTIMATED COMPLETION OF DESIGN: April 2017
ESTIMATED COMPLETION OF CONSTRUCTION: 30 Days upon issuing Notice to Proceed
ESTIMATED CONSTRUCTION COST: \$17,500
CONTRACTOR: TBD

We are in the process of preparing quotation packages for award at the next meeting.

4. **SANITARY METER VAULT INSTALLATION**
ESTIMATED COMPLETION OF DESIGN: May 2017
ESTIMATED COMPLETION OF CONSTRUCTION: 30 Days upon issuing Notice to Proceed
ESTIMATED CONSTRUCTION COST: \$17,500
CONTRACTOR: TBD

We are in the process of preparing quotation packages for award at the first meeting in June.

5. **SANITARY SYSTEM CONTROLS INSTALLATION**
ESTIMATED COMPLETION OF DESIGN: May 2017
ESTIMATED COMPLETION OF CONSTRUCTION: 75 Days upon issuing Notice to Proceed
ESTIMATED CONSTRUCTION COST: \$17,500
CONTRACTOR: TBD

We are in the process of preparing quotation packages for award at the first meeting in June.