

REQUEST FOR TECHNICAL PROPOSALS January 2017 Bundle – 5 Projects

INTRODUCTION

Delaware County seeks professional engineering firms to provide design and technical services for five (5) projects; including the following:

1. NFPA 70E ArcFlash & NFPA 820 Analysis
2. Peachblow Pump Station and Forcemain Upgrade Project
3. Cheshire Pump Station Upgrade Project
4. Lower Alum Creek Relief Pump Station and Forcemain Project
5. Berkshire Township Pump Station and Forcemain Project

Consultants must follow the revised Qualifications-Based Selection Procedure for Professional Design Services updated on 12/13/2016. Refer to the “Consultant Prequalification Procedure” link located at <http://www.co.delaware.oh.us/sanitary>.

The Delaware County Regional Sewer District (DCRSD) office, 50 Channing Street, Delaware, Ohio 43015, will receive Technical Proposals until **2:00 pm (EST) on Thursday, February 23, 2017**. Proposals received after the date and time due will not be considered. All questions should be directed to Tiffany Maag by email at tmaag@co.delaware.oh.us.

In order to receive consideration, questions about the proposals or the project must be received no later than 4:00 p.m. (EST) on Friday, February 17, 2017. DCRSD will transmit written addenda in response to any questions that DCRSD considers necessary to be answered for clarification purposes. Oral statements may not be relied upon and will not be binding or legally effective. Meetings and site visits will not be allowed during the proposal process.

PROJECT LOCATIONS AND DESCRIPTIONS

Project #1: NFPA 70E ArcFlash and NFPA 820 Analysis

The project locations consist of nine (9) treatment plants (3 municipal plants and 6 package plants) and twenty-seven (27) pump stations at various locations within Delaware County. The project will consist of updating the existing NFPA-70E Arcflash studies for four (ACWRF, OECC, Tartan Fields, Scioto Reserve) of the County’s nine treatment plants and perform new ArcFlash studies at each of the remaining five (LSWRF, NorthStar, Scioto Hills, Bent Tree, Hoover Woods) treatment plants as well as all 27 pump stations. Additionally, the selected firm will review compliance at the plants and pumps stations with NFPA 820 Standard for Fire Protection in

Wastewater Treatment and Collection Facilities, and provide specific alternatives to reduce cost and/or maintain compliance associated with the Standard.

A comprehensive evaluation is required to produce updated or new one-line diagrams, short circuit and coordination studies, NFPA 70E compliance evaluation, NFPA 820 compliance evaluation, room classification, and schedule of updates/upgrades needed. The firm awarded this project shall also perform a review of the DCRSD electrical work safety practice Standard Operating Procedure for conformity to electric work safety practices. The NFPA standards to be followed for this project shall be the most recent versions available at the onset of the project. See the attached map labeled **Exhibit "A"** for location reference of the County facilities.

Project #2: Peachblow Pump Station and Forcemain Upgrade Project

This project includes preliminary evaluation, design, permitting, and bidding services for upgrades to the existing Peachblow Pump Station and forcemain to allow for additional planned developments to occur on the west side of Alum Creek Lake to address short-term growth demands. The existing pump station has a wood building that contains electric, SCADA, controls, and a valve vault under the building with submersible pumps in the wet well. The upgraded pump station will be required to handle approximately 3.5 MGD peak flow (current capacity is 0.864 MGD total, 0.720 FIRM) and will also include upsizing 4,300 LF of 8" forcemain to 16" diameter. The purpose of this project is to service the short-term growth demands in the area. The pump station shall be expanded further to 6.6 MGD in the future and part of the preliminary evaluation will include a determination of how to sequence the upgrades based on the existing station configuration. See the attached map labeled **Exhibit "B"** for location reference.

Estimated construction cost is anticipated to be \$1,700,000.

Project #3: Cheshire Pump Station and Forcemain Upgrade Project

This project includes preliminary evaluation, design, permitting, and bidding services for upgrades to the existing Cheshire Pump Station and forcemain to provide capacity for additional development on the east side of Alum Creek Lake including growth in the vicinity of the SR 36/37 interchange with I-71. The upgraded pump station will be required to handle approximately 3.5 MGD peak flow (current capacity is 0.950 MGD total, 0.864 FIRM) and will also include upsizing nearly 3 miles of 10" forcemain to 14" diameter. The forcemain will be required to be extended approximately 15,800 LF south to the downstream 21" sewer which has available capacity for the higher flows. See the attached map labeled **Exhibit "C"** for location reference.

Estimated construction cost is anticipated to be \$2,700,000.

Project #4: Lower Alum Creek Relief Pump Station and Forcemain Project

This project includes preliminary evaluation, design, permitting, and bidding services for a new Lower Alum Creek Relief Pump Station located on the Alum Creek Trunk Sewer downstream of the confluence with the Oak Creek Trunk Sewer. The hydraulic model constructed as part of the Master Plan has identified this area as a major hydraulic bottleneck showing surcharging under various conditions. Construction of this pump station is necessary prior to the completion of the upgraded Peachblow Pump Station as the trunk sewer will surcharge significantly in larger wet weather events. This new Lower Alum Creek Relief Pump Station will be required to be sized for approximately 11 MGD peak flow and will include approximately 9,500 LF of new 24" forcemain within existing right-of-way. These preliminary sizes must be confirmed as part of the design efforts. The new pump station will most likely include a dry pit submersible configuration, building with brick façade, and on site backup generation.

The pump station and forcemain will convey flow directly to the headworks at the Alum Creek Water Reclamation Facility. The selected site for the new pump station is south of the Oak Creek trunk sewer to reduce the potential for flooding along the Alum Creek trunk sewer. See the attached map labeled **Exhibit "D"** for location reference.

Estimated construction cost is anticipated to be \$7,000,000.

Project #5: Berkshire Township Pump Station and Forcemain Project

This project includes preliminary evaluation, design, permitting, and bidding services for a new Berkshire Township Pump Station located south of the Bent Tree package plant and east of the SR 36/37 and I-71 interchange. The purpose of this pump station is to allow the Bent Tree package plant to be decommissioned and to service additional planned growth north of Sunbury and in the Berkshire Township area. The pump station will be required to convey approximately 1.80 MGD peak flow and will include a forcemain (size to be determined by Consultant) that discharges to an existing 15" gravity sewer east of I-71. Preliminary evaluation should also include analysis of discharge west of I-71 and the additional capacity with that option. Additionally, the project includes a gravity sewer (size to be determined) to convey the flow from the Bent Tree package plant to the pump station as well as package plant decommissioning. See the attached map labeled **Exhibit "E"** for location reference.

Estimated construction cost is anticipated to be \$2,200,000.

EXISTING DOCUMENTS

DCRSD will provide existing record documents such as as-builts and photos of the facilities, one line drawings, previous Arc-Flash study documents, and existing easement documents on the District's website at the following link: <http://www.co.delaware.oh.us/sanitary/RFP.asp>. A separate folder for each project is included on the website containing project specific information.

OVERVIEW OF PROCESS

DCRSD uses a Qualifications Based Selection Process conforming to the requirements of Ohio Revised Code Sections 153.65 to 153.71. The process is as follows:

1. DCRSD shall issue a Request for Proposals (RFP) that may include multiple contracts in the same request (bundle of contracts). The interested firm shall submit a single proposal that identifies the specific contracts that they wish to be considered for and requested documentation as outlined below.

CONTENT OF CONSULTANT'S RESPONSE

A firm's proposal response shall include, but is not limited to, the following:

1. Company Name and background on company.
2. Identification of contract(s) that proposer wishes to be considered for.
3. Names and experience of key personnel that will be assigned to perform the services. Provide organizational chart for the proposed project team for each contract to be considered for. Provide resumes for the key project staff members (2 page maximum per resume).
4. List of completed projects for DCRSD and/or similar to the proposed project in which the team is wishing to be considered for and has previously participated in; include detailed information on project description and key personnel.
5. A description of the firm's project strategy for each contract to be considered for. The description shall include:
 - a. Understanding of the project.
 - b. Keys to a successful project
 - c. Innovative and cost savings ideas for the project
6. Project Schedule indicating the time frame for work tasks, review time, milestones, etc.
7. Three (3) public or private agency references to contact regarding the firm's past performance, preferably on similar projects.

One (1) original and four (4) copies of the proposal are to be submitted for evaluation, along with a digital copy of the proposal on CD/DVD. There is a twenty (20) page limit on the proposal, regardless of the number of projects selected for consideration.

EVALUATION

The Proposal Evaluation Committee shall be determined by the Executive Director or his/her designee. Each member of the Proposal Evaluation Committee shall evaluate all firms. Individual evaluations shall be combined into a consensus evaluation. The average score for each of the criteria shall be totaled for a composite score.

EVALUATIONS CRITERIA

The Proposal Evaluation Committee shall evaluate the proposals based on the following criteria:

Experience, technical training and education of the personnel assigned to perform the work	15 POINTS
Competence to perform the required services as indicated by past projects	15 POINTS
Project Understanding and Strategy	15 POINTS
Project Schedule	5 POINTS
TOTAL POINTS	50 POINTS

Prior to completing evaluations, the Proposal Evaluation Committee may request revisions or clarification of the proposals, provided the same opportunity to revise or clarify is given to all firms. If the Proposal Evaluation Committee feels that the scoring process listed above is sufficient to determine the highest ranked firm, DCRSD may proceed to consultant recommendation.

CONSULTANT RECOMMENDATION

Once the Proposal Evaluation Committee has evaluated all proposals and ranked the firms, the committee shall prepare a letter notifying each firm of its findings. DCRSD may then enter into contract negotiations with the highest ranked firm.

FINAL CONTRACT NEGOTIATIONS AND AWARD

DCRSD shall establish the proposed terms and scope of services for the project's contract. Should the negotiations with the highest ranked firm be unsuccessful, then they shall be terminated and negotiations shall begin with the next highest ranked firm. This process shall continue until a contract is successfully negotiated. If all of the negotiations are unsuccessful, all of the firms that submitted proposals will be notified that the selection process has been terminated. DCRSD reserves the right to terminate the final negotiations at its discretion.

Exhibit A: Pump Stations and Treatment Plants

- Pump Stations:
1. Alum Creek
 2. Cheshire
 3. Scioto Reserve North
 4. Concord
 5. Deer Run
 6. East Alum Creek
 7. Golf Village
 8. Golf Village North
 9. Leather Lips
 10. Maxtown
 11. Northstar
 12. The Oaks
 13. Peachblow
 14. Tartan Fields
 15. Quail Meadows
 16. Scioto Bluffs
 17. Scioto Reserve
 18. Sherbourne Mews
 19. Summerwood
 20. Tillinghast
 21. Trotters Gait
 22. Vinmar Farms
 23. Lakes of Powell
 24. Seldom Seen
 25. O'Shaughnessy
 26. Verona
 27. Liberty Park

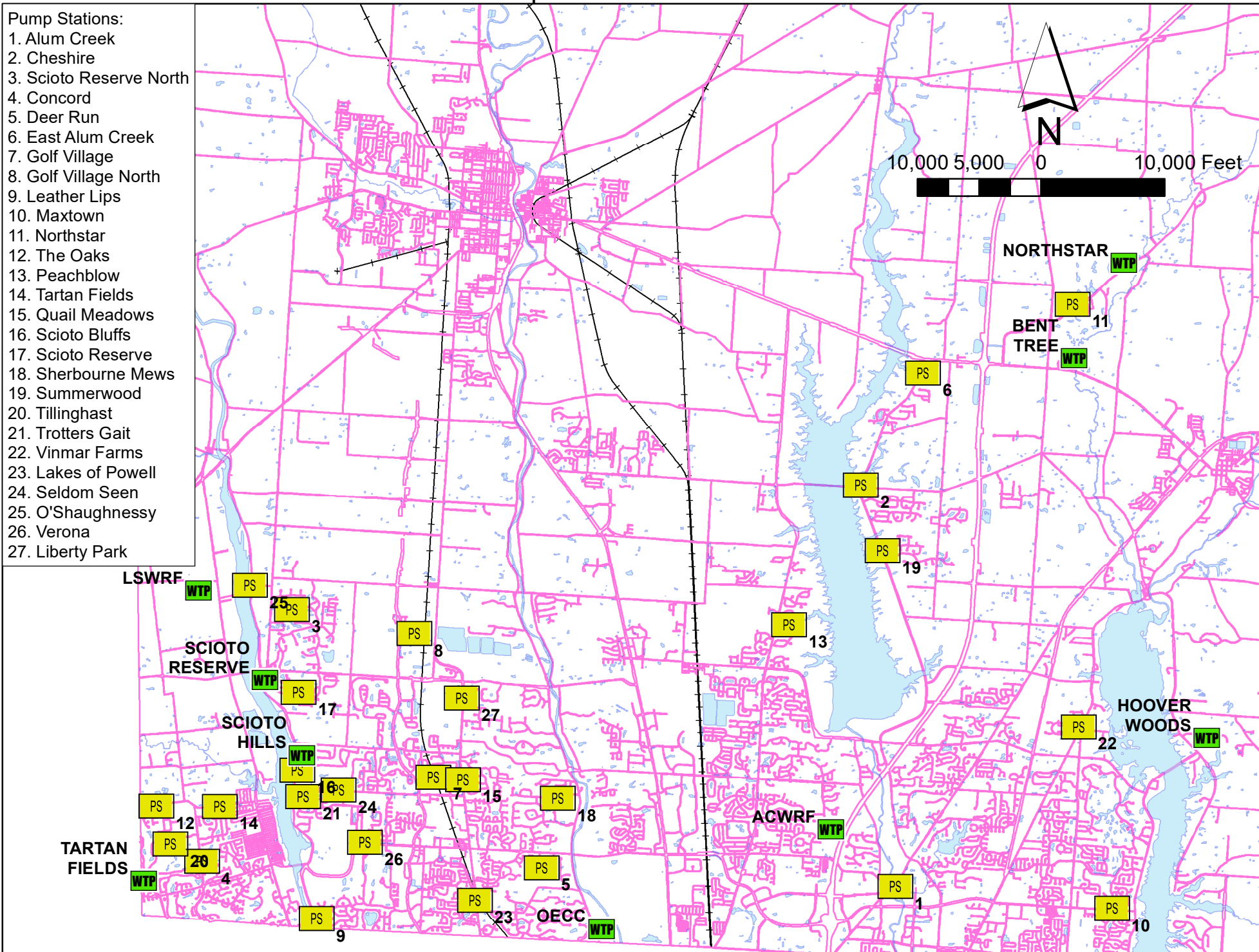
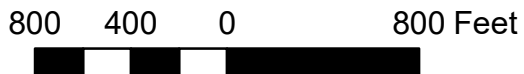
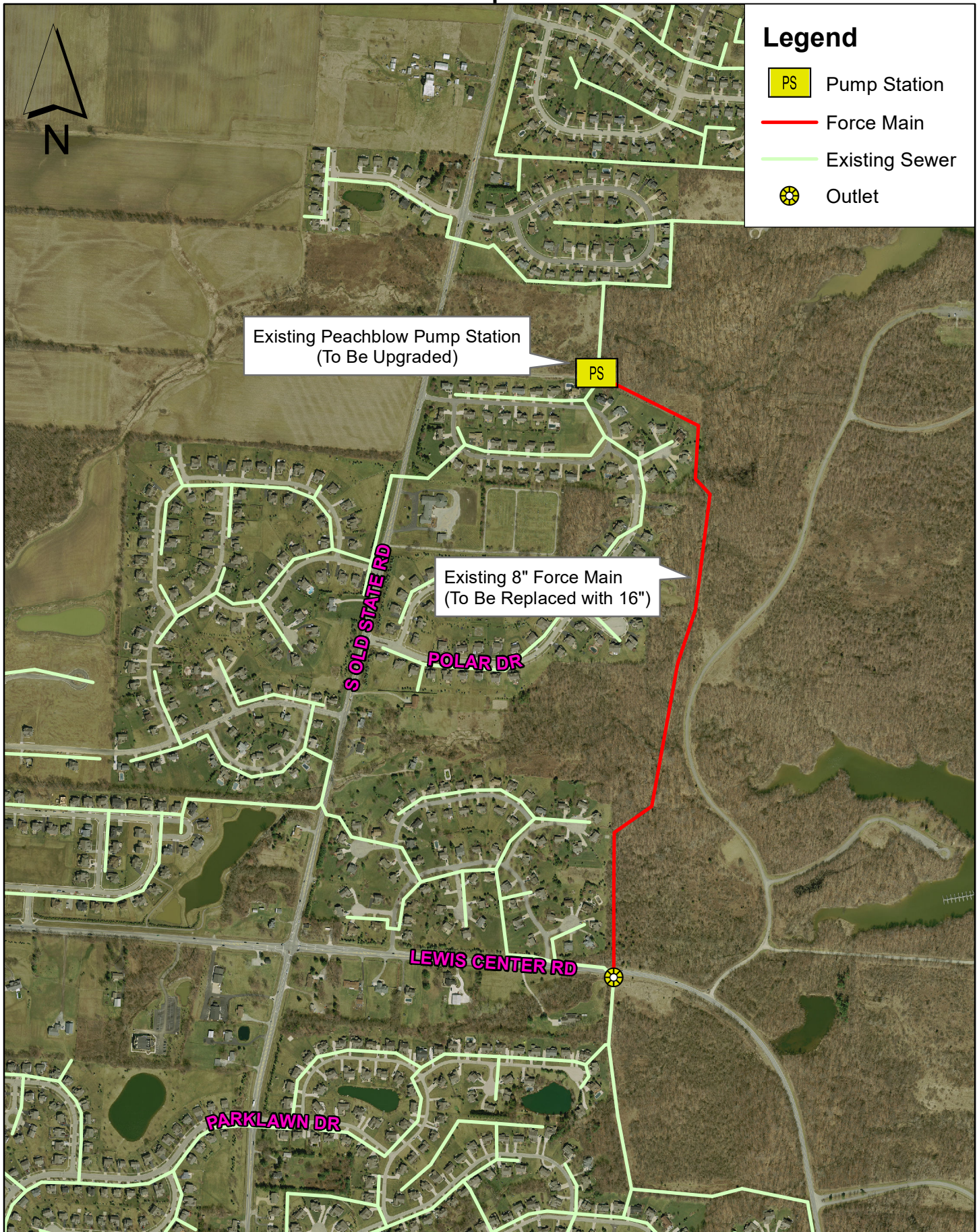


Exhibit B: Peachblow Pump Station and Force Main



Date: 1/17/2017

Exhibit C: Cheshire Pump Station and Force Main

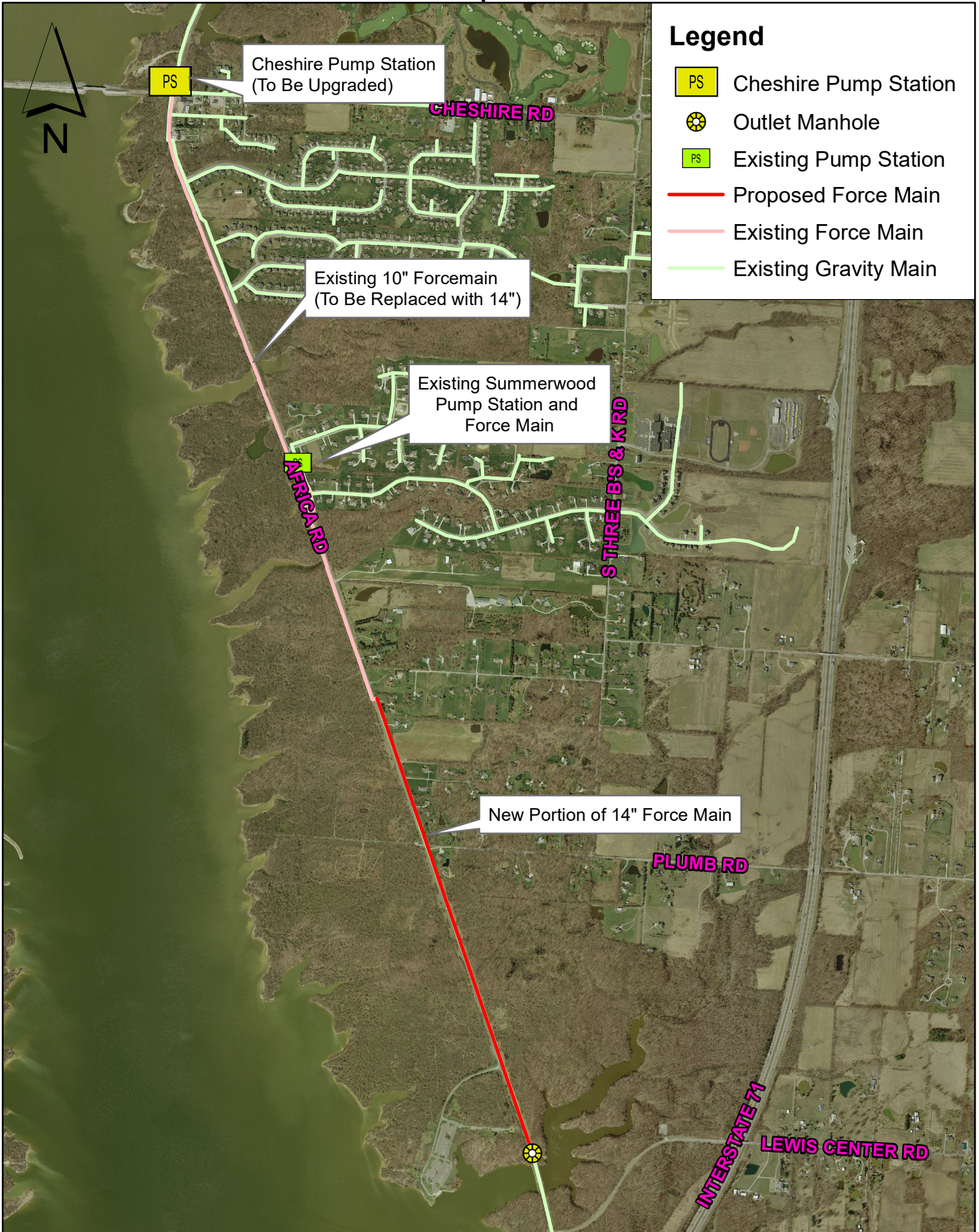
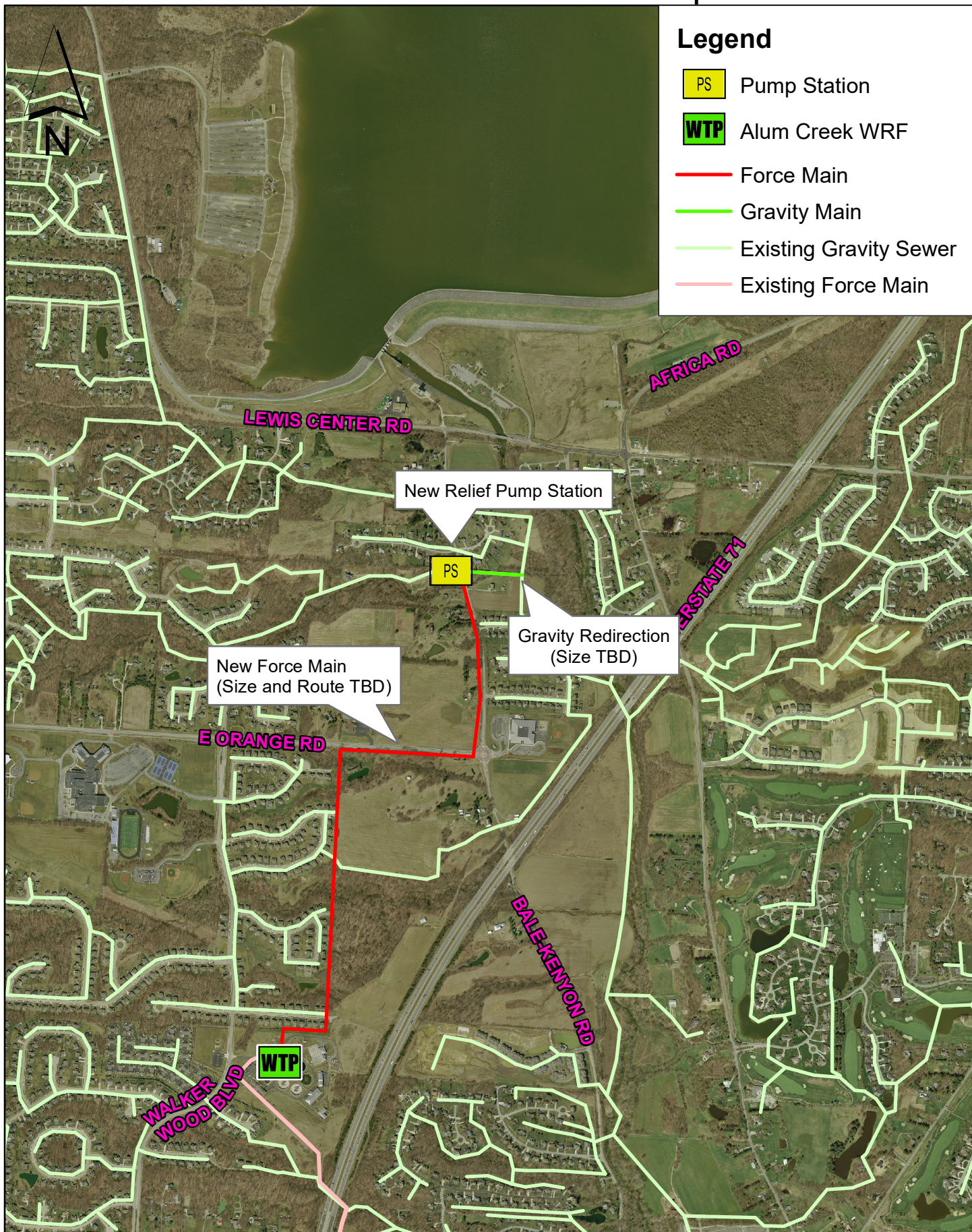


Exhibit D: Alum Creek Relief Pump Station



1,500 750 0 1,500 Feet



Date: 1/17/2017

Exhibit E: Berkshire Township Pump Station

