



Welcome to the Engineering Solutions Team Annual Newsletter.

Welcome, to all Engineering Solutions Team Clients, Family and Friends!

Engineering Solutions Team is moving forward and enjoyed another successful year.

A sincere and deep-felt thank you to all clients that have entrusted Engineering Solutions Team to assist with Improving their required Infrastructure Problems. The Clients who have elected to work with Engineering Solutions Team on a regular basis are the foundation of the Company's success and their needs are the Top Priority to all at Engineering Solutions Team. Developing a Win-Win relationships with the Clients is the Primary Goal of the Company.

In 2016; Engineering Solutions Team serviced 19 clients, including 5 new clients, completed 28 assignments. The circulation of this Newsletter now exceeds 500. Total Company Revenues for the year 2016 exceeded the 2015 Company Revenues by over 30%.

Services delivered in 2016 included Phase 1, Phase 2, and Phase 3 Engineering Services for Municipal Infrastructure Improvements and Public Building Maintenance and Improvement Projects. Further, Engineering Solutions Team performed a number of Right-of-Way and Easement Negotiations.

As we all plan our Year 2017; this Newsletter presents a summary of our Year 2016.

If you have questions or seek assistance, please do not hesitate to contact us.

Engineering Solutions Team hopes that all enjoyed a Merry Christmas and look forward to a Happy, Healthy and Successful New Year.

Thank you. Edward Kalina.

2016 Assignments: The following is a Brief Report of the Assignments Completed by **Engineering Solutions Team** in 2016:



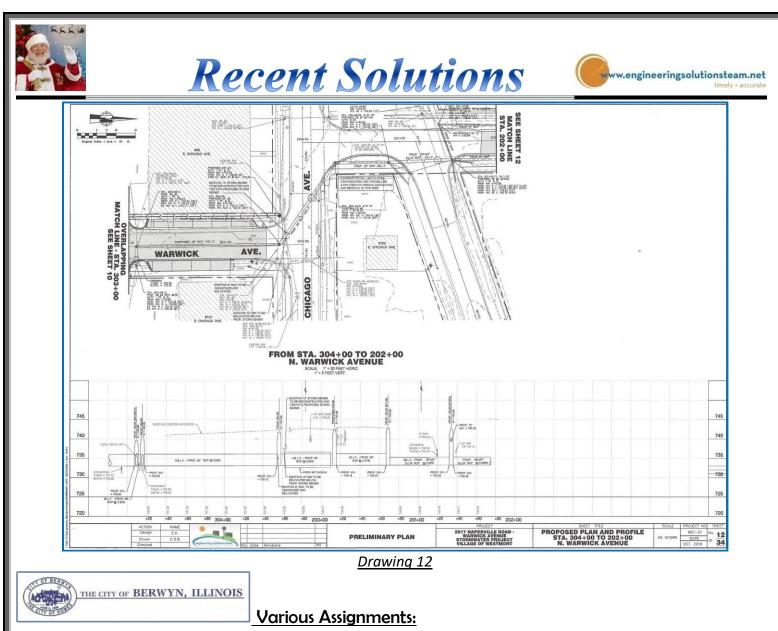
THE WARWICK AVENUE STORM SEWER IMPROVEMENT PROJECT – PHASE 2:

Existing Conditions: During the larger rainstorms spanning over the last few years the Village of Westmont has experienced some flooding conditions and inadequate drainage characteristics throughout the Village. One particularly troublesome area is located on Warwick Avenue north of Chicago Avenue.

The Village of Westmont Public Works Department approved the Storm Water Study completed by Engineering Solutions Team in 2015 and elected to move forward with the Phase 2 Engineering in 2016.

The Storm Sewer Improvement Project will provide the following:

- New 36" to 30" diameter RCCP Storm Sewer from Norfolk Street to Melrose Avenue.
- New local storm sewer improvements to connect to the New RCCP Storm Sewer.
- Relocated Sanitary Sewers, as required to facilitate the construction of the new storm sewer system.
- Relocated Water Mains, as required to facilitate the construction of the new storm sewer system.
- Rehabilitation and Resurfacing of Warwick Avenue.
- New driveway aprons, new sidewalks and reconfigured parkways, as required.
- A 48" diameter steel casing will be augured and jacked under Chicago Avenue, to house the 36" RCCP.
- Chicago Avenue will remain open to traffic at all times through the project duration.
- Construction is planned for 2017.



Engineering Solutions Team performed various on-call assignments for the City of Berwyn. A couple of the 2016 assignments include the following:

Owner's Representative for the Design and Construction Phases for the Modernization of the Berwyn Public Library, in particular the Children's Section. The project was partially funded as a Live and Learn Construction Grant Project.





Wrapping Up.

Getting Started.



Phase 2 and Phase 3 Engineer to make the bathrooms ADA compliant at the Berwyn Recreation Center. Project was funded in part with a DCEO Grant.

Phase 2 and Phase 3 Engineer to modify all lighting fixtures and rehabilitate all ceilings at the Berwyn Recreation Center. Project was funded in part with an Illinois Energy Now Grant.



Before.

City of JOLIE

Installing the New Terrazzo Floor.

After.

VARIOUS ASSIGNMENTS:

The City of Joliet retained **The Engineering Solutions Team Co.** to perform the required design and construction engineering services on the following projects:

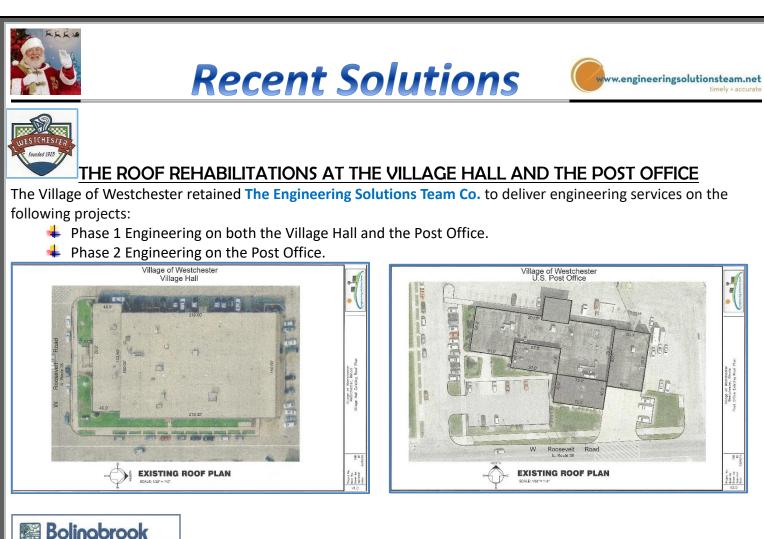
- Phase 1 and Phase 2 and Phase 3 Engineer to facilitate various improvements at the West Side Waste Water Treatment Plant. Improvements included; new doors, roofing repairs and new flooring.
- Phase 1 and Phase 2 and Phase 3 Engineer to install a new roof system at 919 and 921 East Washington. The installed roof system was the Tremco AlphaGuard System. The roof was delivered with a 20-year warranty complete.



Parapet Preparation.



The Completed New Roof.



Fire House #3: Building and Site Rehabilitation:

For several years the Fire House #3 has suffered from poor drainage characteristics on several fronts. These deficiencies include: leaking roof, leaking windows, tuckpoint facilitating drainage behind the walls, leaking foundation walls, and suspect underdrain systems. Situations culminated after storm in November 2015 when Servpro was required to restore the building. The Village of Bolingbrook retained **The Engineering Solutions Team** to provide Complete A/E Services to correct these problems at Fire House #3. *Existing Conditions and Deficiencies are summarized as follows:*

- Outside infrastructure. Proper storm sewer system for this parcel was not installed. Further; lots from the north and east naturally drain through this parcel. Therefore; there is approximately 5.5 acres of properties that naturally drain through the Fire House #3 Lot. Also, the landscaping is established to direct the local drainage to the walls of the building. In summary, much storm water is directed toward Fire House #3 and there is no system in place to move that storm water away from the building. In summary, the storm water generally gathers to the building and sits there.
- The windows leak. The Brick Work allows storm water to traverse through wall cavities.
- The existing roof has a history of leaking for several years now.
- The Inside of the Building has a number of problems. Problems include that the original designed Fire House was intended to accommodate only men. Improving the inside of the building will require a safer living condition for both men and women.

Engineering Solutions Team approach to deliver the complete required A/E Services to facilitate the required rehabilitation to Fire House #3 is to break down the required improvements into 4 separate and distinct projects. The 4 projects are as follows:

Project #1: Stormwater Management and Landscaping Improvements Project.

<u>Project includes</u>: A new storm sewer system, The Plan will call for the Contractor to excavate around the East Wall to ascertain its structural integrity and to install a working foundation underdrain system; Insure that storm water does not flow to the building and that storm water is directed away from the building; The roof downspout drainage will be re-designed to flow away from the building; The Large Pin Oak Tree on the East Side of the Building will attempt to be saved; and the East Side of the Building will be re-landscaped to facilitate that drainage be directed away from the building.

Project #2: Complete Building Tuck Pointing & Window Replacement Project.

<u>Project Includes</u>: All exterior brick work will be pointed. Bricks will be replaced where necessary. There are areas inside the building where the blocks also need to be pointed.

Windows to be replaced include the following: The 2 windows in the Dining Room, The Window in the Dormitory, The west wall window in the garage, The Round Front Entrance Window, The Sliding Patio Door will be replaced, and the Front Door will be replaced.





Project #3: Complete New Roof Project.

Project Includes: The Proposed Roof will be a new gable roof system, Gutters will be designed appropriately into the building system, and Downspouts will be designed appropriately into the building system and designed to outlet and drain away from the building according with the proposed landscaping.

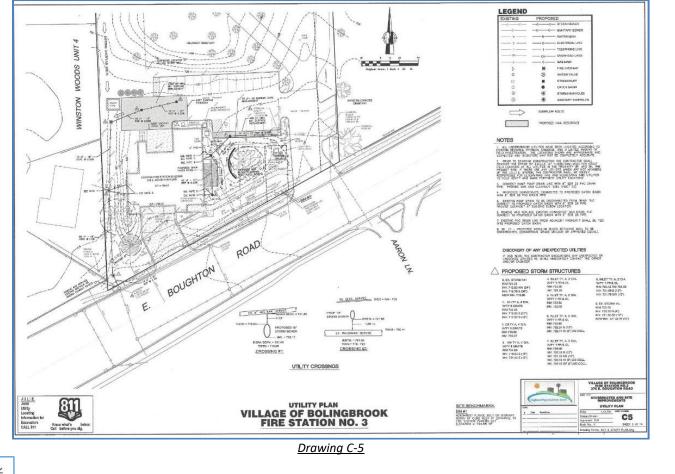
Project #4: Building Interior and Improvements Project.

Project Includes: The Proposed Floor Plan will be designed to better accommodate women firefighters. Project will also include: New furnace and heating system, New air conditioner and cooling system, Upgraded Kitchen and new counter tops, New epoxy flooring throughout the building, Replace the interior doors, Replace the ceiling system as appropriate, Paint the entire building interior, Paint the bay floor, Remove the door jamb from the hose tower, and New generator.



Original Condition of the East Wall

The East Basement Wall with marked cracks.





THE A.D.A. TRANSITION PLAN

The Village of Villa Park retained The Engineering Solutions Team Co. to develop its ADA Transition Plan.





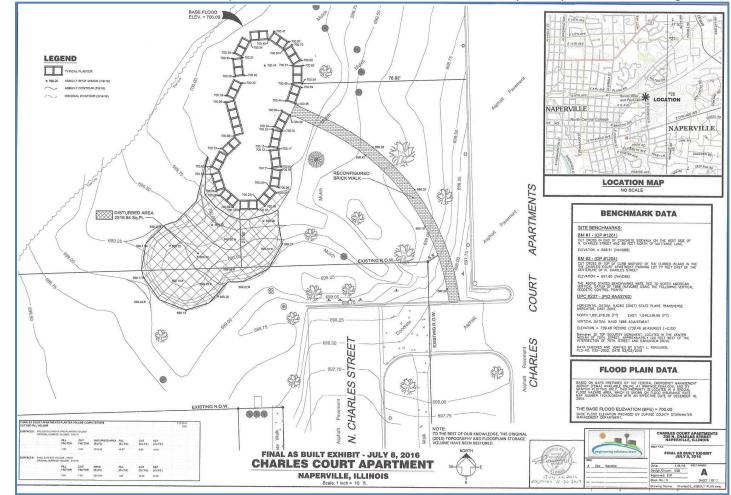


THE BRISBIN ROAD WIDENING PROJECT

The Grundy County Highway Department retained **The Engineering Solutions Team Co.** to negotiate 14 different required Right-of-Way acquisitions to facilitate the construction of this project.

THE CHARLES COURT APARTMENTS; NAPERVILLE, IL

The Charles Court Apartments were interested in installing raised planter boxes on its side property for its residents. The side property happens to be in the flood plain. Charles Court Apartments then retained **The Engineering Solutions Team Co.** to obtain the required Storm Water Permit from both the City of Naperville and DuPage County.





MASONRY REHABILITATION PROJECT AT THE GEPL

The Glen Ellyn Public Library retained **The Engineering Solutions Team Co.** to deliver Phase 2 and Phase 3 engineering services for the masonry rehabilitation and waterproofing of the library building project.

January 2017











THE CHURCH ROAD IMPROVEMENT PROJECT

The Village of Bensenville retained The Engineering Solutions Team Co. to negotiate 2 different required Easement Acquisitions to facilitate the construction of this project.



STRATEGIC PLANNING

The Downers Grove Township retained The Engineering Solutions Team Co. to assist with their Strategic Planning Processes.

Vi;ibility:

Engineering Solutions Team presented paper with Nick Gornick [City of Joliet] at 2016 ISAWWA Watercon

Engineering Solutions Team displayed its Booth at the following Trade Shows in 2016:

- ISAWWA Watercon; on March 21 and 22 and 23.
- American Public Works Association; on May 18 and May 19.

Engineering Solutions Team will attend and/or display booth at the following conferences in 2017:

- Illinois Transportaion and Highway Engineering Conference in Champaign.
- ISAWWA Watercon in Springfield.
- American Public Works Association in Schaumburg.
- Illinois Municipal League in Chicago.

<u>Close:</u>

At times, we brainstorm to better understand what specific behaviors of ours that might have helped to make **Engineering Solutions Team** a trusted and successful local civil engineering consultant......

January 2017





And...





We are developing the opinion that maybe it is because Ed enjoys working overtime to better understand the needs and concerns of the Engineering Solutions Team family.

Hope that all enjoy a Healthy and Productive 2017. We look forward to the opportunity of together exploring your Infrastructure Improvement Programs.

Respectfully

Edward Kalina, President

Engineering Solutions Team