



March 30, 2016

Mr. Noriel Noriega, PE, CPESC  
Public Works Supervisor Engineering Operations  
Village of Westmont  
328 S. Wilmette Avenue  
Westmont, IL. 60559

SUBJECT: Warwick Avenue Storm Water Improvement Program  
The Chicago Avenue / Naperville Road Sub-Basin  
Proposal for Phase 2 Engineering Services

Dear Mr. Noriega:

Thank you for the opportunity to work with you and the Village to provide the necessary engineering services to perform the detailed design and develop the contract document necessary to act as the instrument to facilitate the desired improvements on this section of Warwick Avenue as part of the Village Storm Water Relief Rehabilitation Program.

***Existing Conditions:***

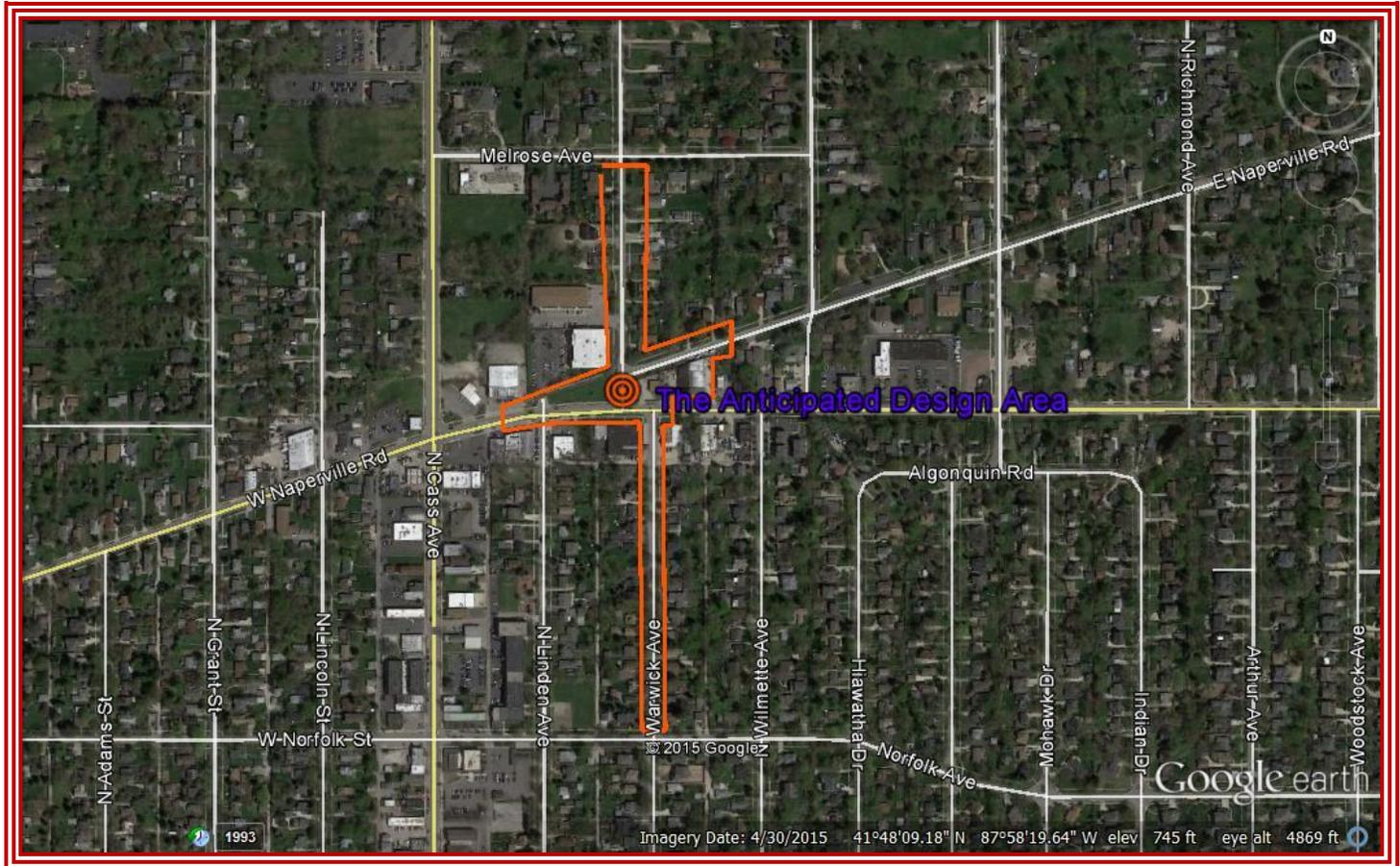
During the larger rainstorms spanning over the last few years the Village Westmont has experienced some flooding conditions and inadequate drainage characteristics located on Warwick Avenue north of Chicago Avenue.

The Village of Westmont Public Works Department contracted with Engineering Solutions Team on September 4, 2015 to perform the Phase 1 Engineering Study for this referenced area. Engineering Solutions Team delivered the completed Phase 1 Report to the Village of Westmont on December 11, 2015.

The Engineering Concept of the Phase 1 Report is to work to incrementally reduce the storm water load which passes through the sensitive area on Warwick Avenue. It is anticipated that by reducing the contributory areas that the current storm water relief system will then be able to better handle the lessened required demand.

The Phase 1 Engineering Report examined 4 alternate solutions. The 4 alternates are as follows:

- **Alternate #1: Utilize the Existing Right-of-Way**
- **Alternate #2: Incorporate Detention**
- **Alternate #3: Extend the Warwick Avenue 36" Direct North**
- **Alternate #4: Extend the Warwick Avenue 36" Utilize Easement**



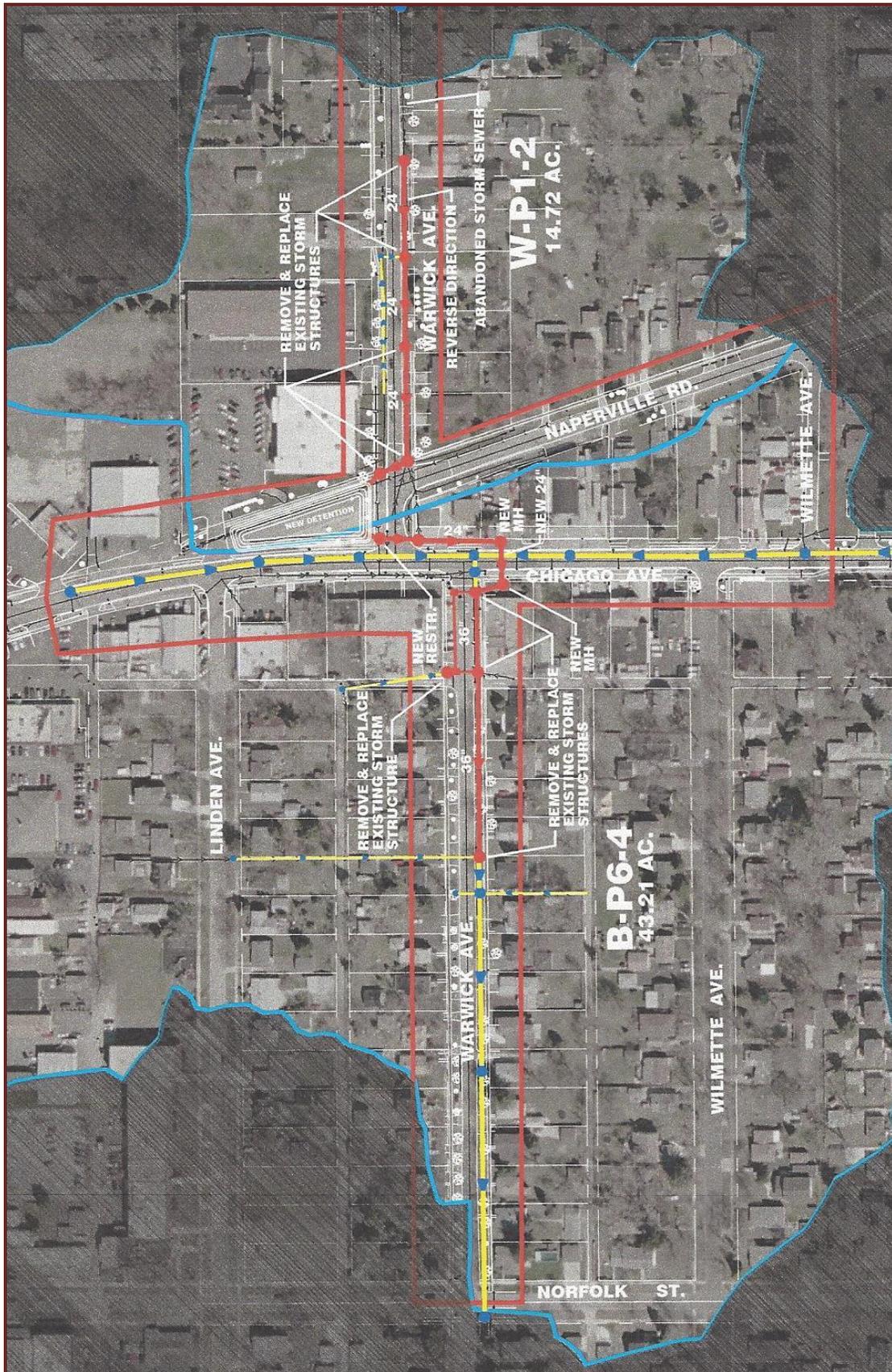
*The Warwick Avenue Anticipated Work Area*

### **The Current Status:**

The Village of Westmont generally has expressed the most positive feedback to the proposed features of Alternate #3. Further, several Village Leaders have expressed interest in the Storm Water Detention feature of Alternate #2.

This Proposal presents the engineering approach and the budget requirements for the Alternates #3 complete; and for the design of the storm water detention feature of Alternate #2.

*Alternate #2: Incorporate Detention.*



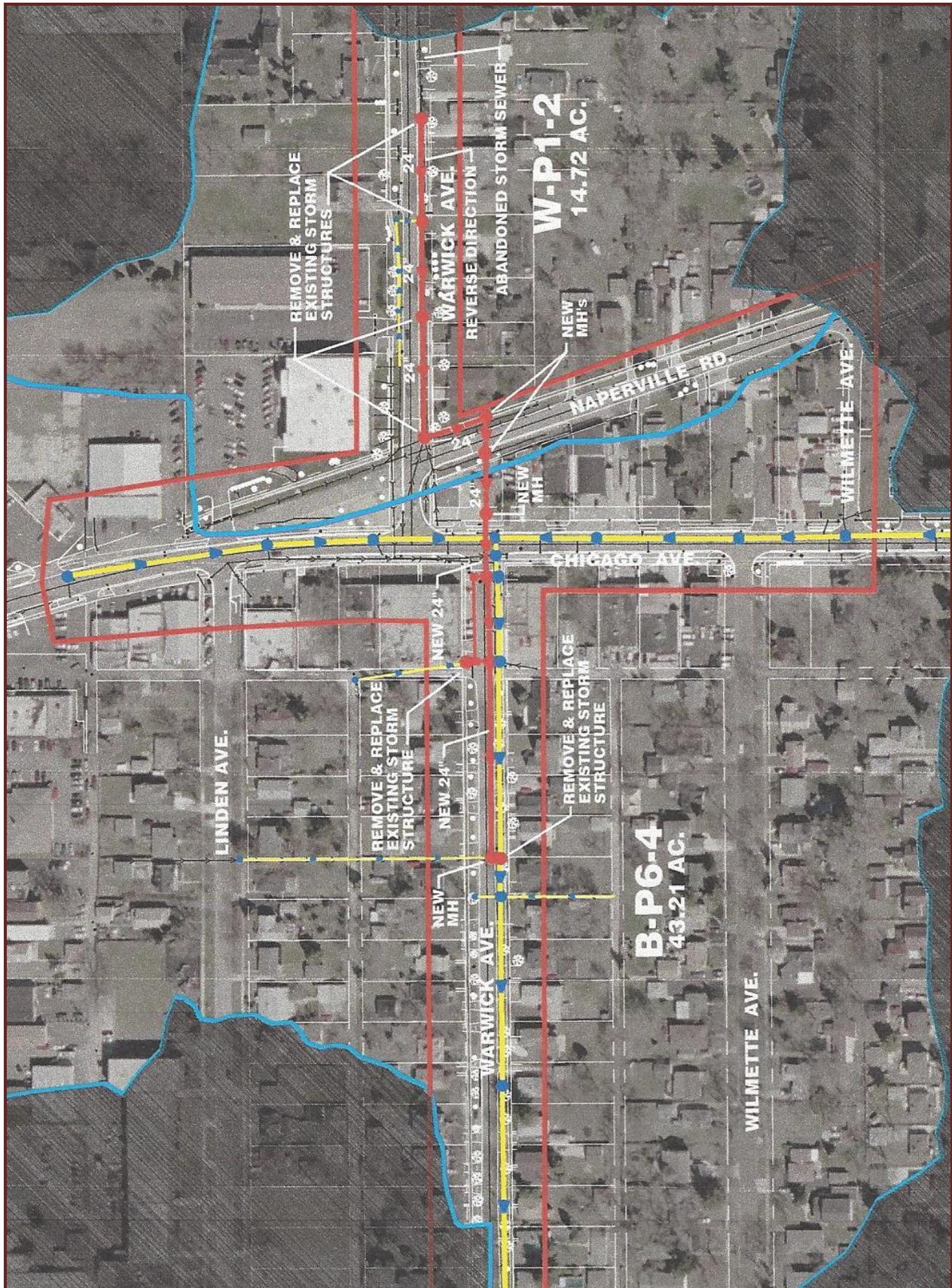


## Village of Westmont

### Warwick Avenue Stormwater Improvement Program Budgetary Estimate – Alternate #2

ITEM	UNITS	QUANTITY	UNIT PRICE	TOTAL PRICE
Televising the Sewer System	LS	1	\$10,000.	\$10,000.
New 36" SS @ TBF	LF	425	\$500./LF	\$212,500.
Drill Set Up	LS	1	\$100,000.	\$100,000.
Drill 24" SS	LF	100	\$750./LF	\$75,000.
New 24" SS @ TBF	LF	900	\$400./LF	\$360,000.
New Structures	EACH	17	\$5,000./EACH	\$85,000.
@Land Purchase [Detention Area]				TBD By Village
@Land Purchase [Detention Area] [survey, plats, negotiation]	EACH	1	\$15,000/EACH	\$15,000.
Earthwork	CY	[50'x100'x6']/ 27	\$30./CY	\$35,000.
Utility Relocations	LS	1	\$75,000.	\$75,000.
Maintenance of Traffic	LS	1	\$50,000.	\$50,000.
New Sidewalk	SF	[1300' x 5']	\$10./SF	\$65,000.
New Concrete Pavement	SF	[40' x 30']	\$40./SF	\$48,000.
Re-Surfaced Pavement	SF	[1100' x 24']	\$8.00/SF	\$211,200.
New B:6.12 C&G	LF	600	\$50./LF	\$30,000.
Tree Removal	EACH	4	\$10,000.	\$40,000.
Landscaping [parkways]	LS	1	\$50,000.	\$50,000.
Landscaping [detention basin]	LS	1	\$100,000.	\$100,000.
*Easement Acquisition [survey, plats, negotiation]	EACH	3	\$10,000.	\$30,000.
*Village to acquire the actual easements				TBD By Village
<b>Sub-Total</b>				<b>\$1,591,700.</b>
<b><u>CONTINGENCY</u></b> [20% contingency + 10% design engineering + 8% construction engineering] = 38%				<b>\$ 604,846.</b>
<b>TOTAL</b>				<b>\$2,196,546.</b>

*Alternate #3: Extend the Warwick Avenue 36" Direct North.*





**Village of Westmont**  
**Warwick Avenue Stormwater Improvement Program**  
**Budgetary Estimate – Alternate #3**

ITEM	UNITS	QUANTITY	UNIT PRICE	TOTAL PRICE
Televiser the Sewer System	LS	1	\$10,000.	\$10,000.
New 24" SS @ TBF	LF	1,050	\$400./LF	\$420,000.
Drill Set Up	LS	1	\$100,000.	\$100,000.
Drill 24" SS	LF	210	\$750./LF	\$157,500.
Land Purchase [Corner Parcel]				TBD Village
Land Purchase [Survey, Plat, Negotiation]	EACH	1	\$15,000./LF	\$15,000.
New Structures	EACH	15	\$5,000./EACH	\$75,000.
Maintenance of Traffic	LS	1	\$100,000.	\$100,000.
New Sidewalk	SF	[1100' x 5']	\$10./SF	\$55,000.
New Pavement	SF	[450' x 24']	\$20./SF	\$225,000.
Resurfaced Pavement	SF	[500' x 24']	\$8./SF	\$96,000.
New B:6.12 C&G	LF	400	\$50./LF	\$20,000.
Tree Removal	EACH	1	\$10,000./Each	\$10,000.
Landscaping [parkways]	LS	1	\$50,000.	\$50,000.
<b>Sub-Total</b>				\$1,333,500.
<b>CONTINGENCY</b> [20% contingency + 8% design engineering + 8% construction engineering] = 36%				\$ 480,060.
<b>TOTAL</b>				\$1,813,560.

The Phase 1 Engineering Report Conclusion is as follows:

## ENGINEER'S RECOMMENDATIONS:

As the project team proceeded through the analysis of the 4 alternates we discovered that we do now have a nice working solution and what appears to be a very cost-effective improvement project for the Village. Further, what we liked about the 4 alternates is how very different each of the 4 alternates became.

Each Alternate evolved as the Project Team became more involved with the preliminary designs. For example:

Alternate #1: This Alternate was originally intended to be the alternate that would be constructed totally on the public Right-of-Way. As the project team began to better understand the location of the existing utilities, it became apparent that keeping the improvement in the public Right-of-Way is just not possible. Three Easements are required to make this Alternate work. That being said, this is still a good working alternative.

Alternate #2: This is the most expensive alternative, and there is a reason for that. This is the best alternative. Alternate #2 provides the required storm sewer solution, further the storm water flow can be best managed with the use of the detention basin, and finally the detention basin is centrally located and can be landscaped as a natural area or scenic park. Alternate #2 has potential beyond what is addressed in this Study Report.

Alternate #3: This Alternate is a very straight forward solution. Literally. The proposed 24" Storm Sewer goes directly to the centerline of Warwick Avenue and proceeds directly north till it arrives north of Naperville Road. This Alternate leaves unaffected the course of the Chicago Avenue Storm Sewer System. This Alternate requires that the Village purchase the corner lot. It is apparent that the land utilization of the specific corner lot could be improved based on its location. The Village needs to be aware that if this lot is purchased for the project and the Village wants to consider resale of this property after construction of the storm sewer, then there will need to be a permanent easement over the storm sewer prior to resale.

Alternate #4: This Alternate is a civil engineer's dream. This Alternate solves the identified problem, nothing more and nothing less, in a most cost-effective fashion.

Based on everything the Project Team has learned over the past 4 months, Engineering Solutions Team recommends that the Village move forward to the Design Engineering Phase with either Alternate #2 or Alternate #4.

I am certainly available to discuss the details of this report with you and possibly brainstorm the combining of Alternatives if that is your pleasure.

**In conclusion, Engineering Solutions Team appreciates the trust from the Village and we have enjoyed working on this assignment. We certainly look forward to being able to be of further assistance to the Village on the Phase 2 and Phase 3 Engineering Assignments for this Project.**

## *The Phase 2 Approach and Scope of Services:*

This proposal presents the approach and the corresponding level of effort and professional fees to deliver the following:

### *Project Initiation:*

- Meeting with Village Staff to determine the exact alternative to be designed and develop the corresponding Contract Documents.

### *Field Surveys:*

- Final Design Topographic Field Surveys.
- Perform TV Inspection of the existing storm sewer systems.

### *Preliminary Plans:*

- Develop the Preliminary Design Plan.
- Develop the Preliminary Utility Plan.
- Develop the Preliminary Cost Estimates.

### *Project Coordination and Management:*

- Meet with the Village Team to review and approve the Preliminary Plan before initiating the Negotiations and proceeding with the development of the Final Design Plans.

### *Utility and Agency Coordination:*

- Obtain all required project permits and agreements. Detailed coordination is anticipated for the following:
  - Fiber optic communication lines.
  - Com Ed.
  - NICOR
  - DuPage County DOT.
  - Village of Westmont Drinking Water System.
  - Flagg Creek WRD Sanitary Sewer System.

### *Public Outreach:*

- Communicate with Village Leaders and Decision Makers and General Public as required to ensure project success. This proposal includes the following:
  - 2 Meetings with the Village Board.
  - 1 Public Information Meeting. Open House Format and no Court Recorder.

### *Right-of-Way and Easement Services:*

- Develop the Final Plan, Plat and Legal for the required Right-of-Way and required easements.
- ❖ ***The Village will be required to obtain an independent appraisal for any required right-of-way and/or easement purchase.***

Final Plans:

- Develop the Final Design Plan.
- Develop the Final Utility Plan.
- Develop the Final Cost Estimates.

Project Coordination and Management:

- Meet with the Village Team to review and approve the Final Plan before finalizing the Special Provisions and Contract Documents.

Develop the Bidding Documents:

- Develop the Special Provisions and Contract Documents.

Bidding Services:

- Advertise the Project. **The Village will be responsible to select the newspapers where the project is to be advertised and to purchase the ad space from the newspaper.**
- Communicate and answer questions with potential contractors.
- Organize and conduct a Pre-Bid meeting with all interested Contractors.
- Develop and circulate Addendum.
- Attend the Bid Opening.
- Develop Bid Tab, review the responsible bidders' proposals, author Engineer's Recommendation Memo.

Detention Basin:

- Develop the Storm Water Model for the Contributing Area to the Detention Basin.
- Design the Sewer System for the Detention Basin.
- Design the Landscape for the Detention Basin.

Proposed Project Schedule:

- |   |                     |
|---|---------------------|
| ○ Notice to Proceed be issued on                                  | April 19, 2016      |
| ○ Project Initiation  | April               |
| ○ Field Surveys   | April and May       |
| ○ Preliminary Plan Submittal                                      | September 14, 2016  |
| ○ Utility and Agency Coordination                                 | May thru August     |
| ○ Public Outreach   | June thru September |
| ○ Right-of-Way and Easement Services                              | June thru August    |
| ○ Final Plan Submittal  | December 14, 2016   |
| ○ Complete Plan, Special Provisions, Bid Documents, Eng. Estimate | January 30, 2017    |
| ○ Advertise Project   | February 2017       |
| ○ Targeted Pre-Bid Meeting  | February 21, 2017   |
| ○ Targeted Bid Opening  | February 28, 2017   |
| ○ Project Coordination and Management                             | throughout          |
| ○ Detention Basin Designs   | March 2017          |



**Owner Responsibility:**

The **Owner** will provide the **Engineer** with:

1. Any available existing plans, topographies and Studies for the immediate Project Study Area and all affected adjacent areas.
2. The Village Client Coordinator will communicate closely with the Engineer to insure that the Engineer is completely aware of all Village Communication pertaining to this Project.

**Insurance:**

The Engineering Solutions Team, Company carries \$1,000,000.00 of professional liability insurance through the Admiral Insurance Company. The Engineering Solutions Team, Company also carries business liability insurance with an aggregate of \$4,000,000.00 with The Hartford. If The Village of Westmont would like to be listed as an additional insured for this project; please advise the Engineering Solutions Team, Company.

**Engineering Team Billing Rates:**

Based on the above described work, the **Engineer** proposes to be compensated as follows:

Senior Project Engineer [SPE]	=	\$125./hour
Project Engineer and CADD [PE]	=	\$80 ./hour
Survey Team [ST]	=	\$110./hour

**Engineer’s Anticipated Level of Effort:**

o Project Initiation		\$2,500.
o Field Surveys and TV Sewers [includes the Visu-Sewer Proposal]		\$15,000.
o Preliminary Plan Submittal		\$30,000.
o Utility and Agency Coordination		\$10,000.
o Public Outreach		\$10,000.
o Right-of-Way and Easement Services		\$10,000.
o Final Plan Submittal		\$25,000.
o Develop Special Provisions and Bid Documents		\$10,000.
o Bidding Services		\$7,500.
o Project Coordination and Management		\$5,000.
o Contingency	=	<u>\$ 5,000.</u>
	<b>Total Sewer Design Engineering Fee</b>	<b>= \$130,000.</b>
o Detention Basin [ Stormwater Model & Design]	=	<u>\$25,000.</u>
	<b>Total Not to Exceed Phase 2 Engineering Fee</b>	<b>= \$155,000.</b>



### **Additional Services:**

Although Engineering Solutions Team has the capability and would be pleased to perform the following services, our proposal considers the following listed services as “Additional Services”.

- Right-of-Way and Easement Services for Alternate #2.
- Phase 3 Engineering Services for the Warwick Avenue Stormwater Improvement Project. Again, Engineering Solutions Team has the capability and would be pleased to perform the required Construction Engineering Services. Further, Engineering Solutions Team would recommend, based on the Village’s request, to submit this proposal upon completion of the Preliminary Plan Phase.

### **Term of This Agreement:**

It is intended that all terms of this Agreement will apply for 1 month from the date of this Proposal. Should the OWNER entertain concurrence with this Agreement after the 1 month term; then Engineering Solutions Team reserves the right to review and adjust the required scope, efforts and fees for this Project. Further, it will be necessary to re-visit the proposed schedule.

### **Close:**

**The Engineering Solutions Team** is most looking forward to continuing to work with the Village of Westmont and your Project Team on this exciting project. If you have further thoughts or questions, please do not hesitate to contact me.

Furthermore; I will ensure that the Said work will be performed as described.

Thank you.

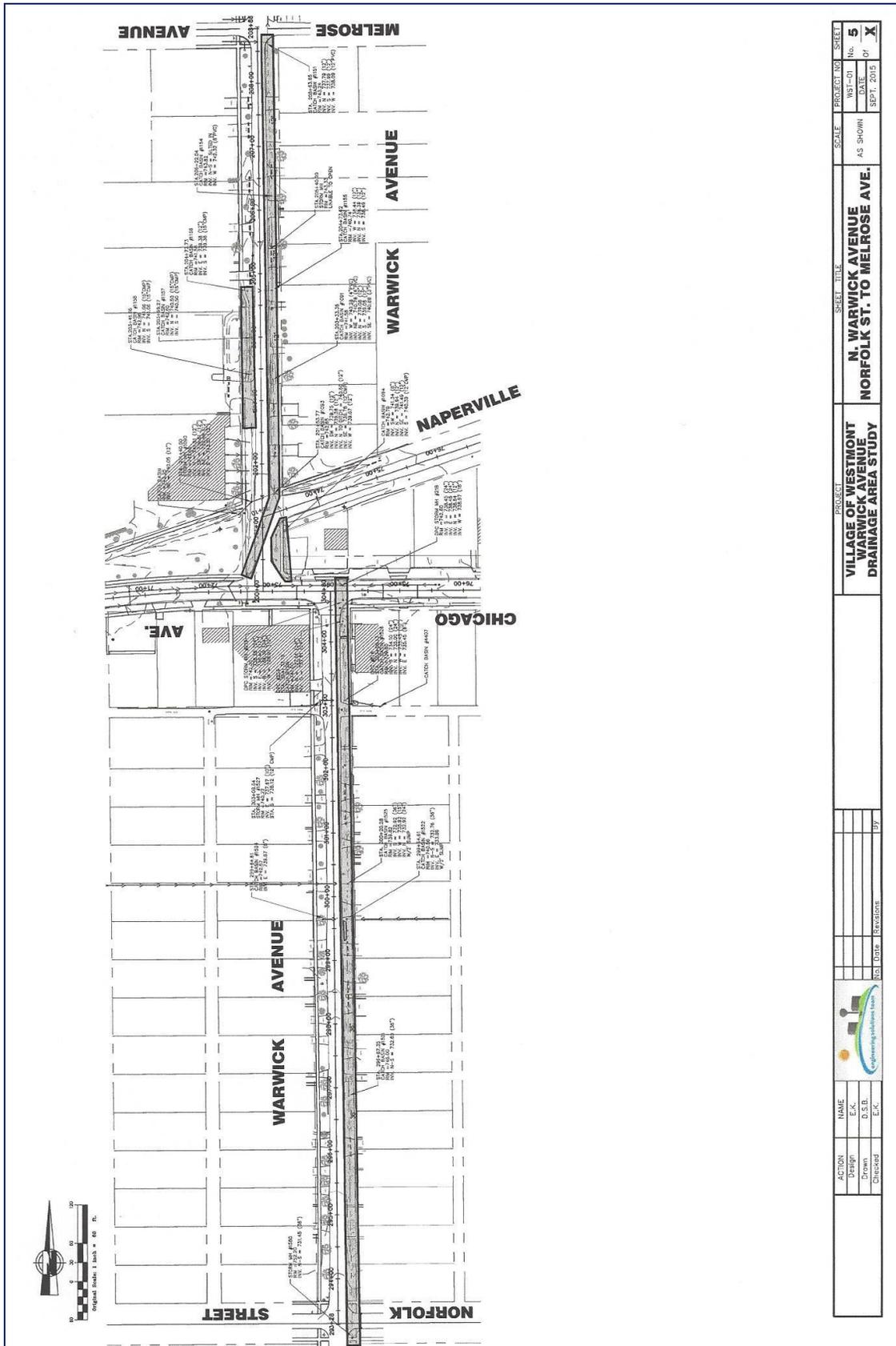
Respectfully,

*Edward J Kalina*

Edward J Kalina, PE

President, Senior Project Engineer

The Sewer Television Survey



The Plan of Storm Sewer to be inspected by Visu-Sewer

ACTION		NAME	PROJECT	SHEET	PROJECT NO.	SHEET
Design	E.K.		VILLAGE OF WESTMONT	No. 5	WST-01	
Drawn	D.S.D.		WARWICK AVENUE		AS SHOWN	
Checked	E.K.		NORFOLK ST. TO MELROSE AVE.		DATE	SEPT. 2015
					NO.	BY
					DATE	REVISIONS



## Revised Proposal

To: Ed Kalina, PE  
Engineering Solutions Team  
4925 Forest Ave.  
Downers Grove, IL 60515

From: Tom Woods  
Cell 708-595-6336

**Date:** 10/22/2015

**Project:** Storm sewer televising in Westmont

Visu-Sewer of Illinois is pleased to provide the following quotation to televise approximately 2,250 linear feet of 12", 24" and 36" storm sewer on Warwick Ave. in Westmont. The objective is to see if we can pinpoint any issues that affect the overall drainage along Warwick north and south of Chicago Ave.

Particularly on the north leg many of the structures have enough debris in them that we will be on site with a combination jet/vac truck to clean the lines and vacuum out the structures, to increase the capacity of the pipes, to make sure we can access the lines with our camera and to allow us to see as much of the storm sewer line as possible.

Price: \$475 per hour for equipment and two operators. Travel to and from wherever our crew is staged is billable at the same rate. Tough to know for sure, but we suggest you budget for two full days to get the cleaning and televising done. You will be billed only for the actual travel and site time.

Our not-to-exceed price for completing the project is \$7800, which includes a small allowance for off-site debris disposal (see below).

A couple other notes . . .

- 1) We will count on you to get permission from the village to fill our combination jet/vac truck from nearby hydrants at no charge.
- 2) If the village has a place we can dump the storm debris we remove from the system, great. If we need to take it to an authorized transfer station for disposal, we will do so at a rate of \$80 per ton.

All defects will be noted following NASSCO's PACP protocol. You will receive a two DVS-format DVDs and written reports of the televising video approximately a week after we complete the work.

Thank you for considering Visu-Sewer of Illinois for the above project. If our proposal is accepted, please sign and scan/email or fax it back to our office so we can schedule the work. If you have any questions please do not hesitate to contact me at 708-237-0340 (office) or 708-595-6336 (mobile).

All material guaranteed to be as specified. All work to be completed in a substantial workmanlike manner according to standard practices or specifications submitted. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements are contingent upon strikes, accidents or delays beyond our control. Owner is to carry fire, tornado and other necessary insurance. If a collapse of the original pipe results during the lining process, Visu-Sewer will not be held liable for costs associated with excavation, repairs or restoration. Our workers are fully covered by Workmen's Compensation Insurance. This proposal may be withdrawn if not accepted within 30 days of issue. Terms - Net 30 days.

### Acceptance of Proposal

The above prices / conditions are satisfactory and are hereby accepted. Visu-Sewer is authorized to do the work as specified.

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

**Visu-Sewer of Illinois, LLC**  
9014 S. Thomas Ave, Bridgeview, IL 60455

[www.visu-sewer.com](http://www.visu-sewer.com)  
(P) 708-237-0340 (F) 708-237-0360

*The Visu-Sewer Proposal*