



**REQUEST FOR BID # 18145  
FOR  
2018 Sewer Repair and Water Valve Installation Program**  
<https://www.wilmette.com/government/bids-rfps/>

<b>Last Date/Time for Questions</b>	07/05/2018 2:00 pm local time
<b>Last Addendum Issued</b>	07/09/2018 2:00 pm local time
<b>Bids Due At Village Hall</b> 1200 Wilmette Ave, Wilmette, IL 60091	07/12/2018 2:00 pm local time
<b>Bid Opening</b>	07/12/2018 2:00 pm local time
<b>Work Completion Date</b>	October 5, 2018

**Submit bids to:**

Cliff Ruemmler  
Purchasing Manager  
Village of Wilmette  
1200 Wilmette Ave  
Wilmette, IL 60091  
(847) 853-7619  
[purchase@wilmette.com](mailto:purchase@wilmette.com)

**Note:** This cover sheet is an integral part of the bid documents and is, as are all of the following documents, part of any contract executed between the Village of Wilmette and any successful BIDDER.

## VILLAGE OF WILMETTE NOTICE TO BIDDERS

Notice is hereby given that the Village of Wilmette (the "Village") will receive bids at the Village Hall, 1200 Wilmette Avenue, Wilmette, IL 60091 until 07/12/2018 at 2:00 PM, local time for the Village's 2018 Sewer Repair and Water Valve Installation Program. Bids will be publicly opened and the amounts on the Summary Bid Sheets will be read aloud at the bid opening.

### **Pre-Bid Meeting**

None

### **Bid Bond**

All bid proposals must be accompanied by a certified check, bank cashier's check, or bid bond in the form as provided in the RFB Documents, or bank draft payable to the Village of Wilmette equal to ten (10%) percent of the amount of the bid.

### **Description of Work**

The proposed work is officially known as 2018 Sewer Repair and Water Valve Installation Program, as further described in the **RFB SPECIFICATIONS** section of this RFB.

### **Prevailing Wage**

The proposed work described herein is covered by the Illinois Prevailing Wage Act. It is the Bidder's responsibility to obtain current prevailing wage rate information from the Illinois Department of Labor. Prevailing wage rate updates can be obtained from <http://www.state.il.us/agency/idol/>.

### **Availability and Clarification of Documents**

This RFB and any addendums will be posted on the Village's website at: <https://www.wilmette.com/government/bids-rfps/>.

Any questions related to this RFB should be submitted in writing to Cliff Ruemmler, Purchasing Manager, at [Purchase@wilmette.com](mailto:Purchase@wilmette.com). Questions received by the Village, including the Village's responses will be consolidated and posted to the Village website.

The deadline for submitting questions is 2:00 pm local time 07/05/2018. Contractors will provide written acknowledgment of each addendum issued with their Proposal submission. Oral explanations will not be binding. No clarifications, interpretations or addenda shall be issued after 2:00 pm local time on 07/09/2018.

It is the sole responsibility of the Contractor to check the Village' website to determine if an addendum has been posted.

## BID PREPARATION AND SUBMISSION

### Preparation of Bid Documents

The BIDDER shall prepare the bid on the attached bid forms furnished by the Village starting on page 06 of this RFB.

All blank spaces on the bid pages applicable to the subject specification must be correctly completed in ink or type written. All signatures must be completed in ink.

The total bid amount is to be shown in both words and figures where indicated. In case of a discrepancy between words and figures, the words shall prevail, unless it clearly appears in the Village's opinion that the words rather than the figures are in error. BIDDERS are warned against making any erasures or alterations of any kind, and Bids which contain omissions, erasures, conditions, alterations, or additions not called for may be rejected.

### Contract Conditions

BIDDERS are responsible to become familiar with all conditions, instructions, and contract documents governing this bid, including the **Bonds and Contract terms attached in Appendix One (1) and Appendix Two (2)**. Submission of a bid will be considered specific evidence of having performed the above. **Any exceptions to the contract document that you may have must be included on the Bid Exception Sheet**. Once the award has been made, failure to have read all the conditions, instructions and specifications of this RFB shall not be cause to alter the original bid or to request additional compensation.

### Site Conditions

Bidders are responsible for becoming familiar with all conditions, instructions, plans, drawings, specifications and other Contract Documents governing the Project (see ATTACHMENTS TWO THROUGH SIX in Appendix Two); and, shall inspect the site prior to submitting a Bid. Submission of a bid shall be deemed certification that the Bidder has taken all steps necessary to become fully informed as to the nature and scope of the Work to be done, expectations, conditions, requirements, specifications, Contract Documents and the accuracy of estimates as to quantities of materials and labor. Failure to take such steps prior to submitting a bid will be at the Bidder's own risk and the Bidder's failure to take such steps will not: a) secure relief on a plea of error or mistake; b) excuse the successful Bidder, as Contractor, from performance of the duties and obligations imposed under the terms of the Contract Documents; c) serve as a basis for modifying the Contract in any way; or, d) justify any request for additional compensation or time.

### Conflict with Existing Village Contracts

The 2018 Sewer Repair and Water Valve Installation Program contract shall be treated as a separate contract and not performed in conjunction with any existing contracts as currently held by the Contractor. Any Contractor that currently performs work for the Village under an existing contract must agree to furnish additional crews (labor and equipment) to guarantee that timeliness, quality and services currently rendered do not suffer in any way due to additional work contained in this contract.

**Submission of Bids**

All Bids must be delivered to the Purchasing Manager by the specified opening time of the bid. Bids arriving after the specified time will not be accepted. Mailed bids arriving after the specified time will not be accepted regardless of post-marked time on the envelope.

Four (4) hard copies and one electronic copy of the complete bid in Adobe Acrobat PDF format (CD, DVD or USB flash drive is acceptable) should be submitted in a sealed envelope. The envelope must be clearly marked with the project name, BIDDER'S name, address, bid opening location, date and time.

**Withdrawal of Bids**

BIDDERS may withdraw or cancel their bid proposals at any time prior to the bid opening time by submitting a request in writing to the Purchasing Manager at [purchase@wilmette.com](mailto:purchase@wilmette.com) or by mail at 1200 Wilmette Ave, Wilmette, IL 60091. Mailed requests to withdraw a bid arriving after the specified time will not be accepted regardless of post-marked time on the envelope. After the bid opening time, no bid shall be withdrawn or canceled for a period of ninety (90) calendar days. The successful BIDDER shall not withdraw or cancel its bid after having been notified by the Purchasing Manager that said bid has been accepted by the Village Board.

**Qualifications of Bidders**

Bidder's references must represent that the bidder has the following minimum experience:

- a. Three years' experience as a continuously operating entity engaged in the performance of similar work.
- b. Completed contracts of a similar nature and complexity, completed within the past three years for at least three different Public Agencies and/or three separate commercial owners.

**Consideration of Bids**

The work shall be awarded to the responsible BIDDER who submits the responsive bid that is most advantageous to the Village.

The Village reserves the right to waive any technicalities, irregularities or award in part or in whole or to not award at all, reject any and all bids, and may order a re-advertisement for new bids or whatever is in the best interest of the Village.

Failure on the part of the successful BIDDER to execute a contract within thirty (30) calendar days of its receipt or to provide an acceptable performance bond shall be considered just cause to withdraw the award. In such case the bid security shall be forfeited as liquidated damages and not as a penalty.

If the bid proposal does not meet the entire Village specifications but does substantially meet the requirements, the bidder should indicate, in writing on the Bid Exception Sheet, all deviations from the specifications. The specifications included in this RFB are to be considered as minimum.

**Disqualification of Bids**

The following will be cause for disqualification of bid proposals:

- a. Prices excessively high and/or exceed monies available for the intended work;
- b. Failure to submit bid security;
- c. Failure to offer to meet specified delivery or performance schedules;
- d. Failure to price out the bid in conformance to the required format; or qualification of price to protect the BIDDER from unknown future market conditions;
- e. Rights of the Village limited under any contract clause;
- f. Reasonable basis to suspect either conflict of interest or collusion among BIDDERS;
- g. BIDDER fails to submit required information, literature, or affidavits with bid;
- h. Late bids;
- i. Failure of any authorized person to sign any required forms or to sign the bid;
- j. BIDDER is prohibited by local, state or federal law from entering into public contracts;
- k. BIDDER is in arrears or is in default to the Village upon any debt or contract, or that is a defaulter, as surety or otherwise, upon any obligation to the Village;
- l. BIDDER has failed to perform faithfully any previous contract with the Village; and
- m. Anything to be in violation of the procurement policies and procedures for the Village of Wilmette.

**Competency of Bidder**

The BIDDER, if requested in writing, must present within five (5) business days, evidence satisfactory to the Village of ability and possession of the necessary facilities, equipment, personnel, prior experience, financial resources, and/or certificates of insurance.

**INSTRUCTIONS TO BIDDERS ON COMPLETING FORMS**

**BIDDER INFORMATION**

**Company Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**City, State, Zip** \_\_\_\_\_

**Contact Name:** \_\_\_\_\_

**Phone / Email:** \_\_\_\_\_

The following Bid Forms must be filled out completely, executed by an authorized agent, notarized and sealed, if applicable, and included in the bid **(one original and one copy)**:

**BID SUBMISSION FORMS**, in this order

<input type="checkbox"/> ..... This Instructions Page
<input type="checkbox"/> ..... Summary Bid Sheet
<input type="checkbox"/> ..... Required Work Bid Sheets
<input type="checkbox"/> ..... Optional Work Bid Sheets
<input type="checkbox"/> ..... Reference Form
<input type="checkbox"/> ..... Bid Bond
<input type="checkbox"/> ..... Current Village of Wilmette Contracts Sheet
<input type="checkbox"/> ..... Bid Exceptions Sheet
<input type="checkbox"/> ..... Bid Affirmation and Certification Pages (signed)
<input type="checkbox"/> ..... Certification of Compliance (signed)
<input type="checkbox"/> ..... W-9

**SUCCESSFUL BIDDER ONLY**

The **successful** Bidder will be required to provide a performance bond and payment bond and execute the Contract included in Appendix 1 and 2 to this RFB. These documents **SHOULD NOT** be completed at the time of bid submission.

## SUMMARY BID SHEET

The 2018 Sewer Repair and Valve Installation Program consists of selected sewer point repairs on existing sanitary sewer at various locations throughout the Village of Wilmette and replacement of gate valves within the Village's water distribution system, as further described in the Contract Documents for the said Work prepared by the Village of Wilmette Engineering Department.

Unit prices submitted as part of the Bid Proposal shall include full compensation for all required labor, products, tools, equipment, plant, transportation, services, incidentals, application, performance, installation, overhead and profit. Should there be a discrepancy between the gross sum bid amount and the bid amount calculated from the summation of quantities multiplied by their respective unit prices, the latter shall apply.

The quantities stated in these bid documents for which unit prices are to be provided are approximate only and are intended for the purposes of obtaining a gross sum, computing the value of additions and deductions, and determining the lowest responsible Bidder. Compensation to the Contractor shall be based upon the actual quantities used for the performance of the Work multiplied by the unit price stated in Contractor's Bid Proposal for each item.

<b>Required Work Total from page 10.</b>	\$ _____
<b>Optional Work Total from page 11.</b>	\$ _____
<b>Total</b>	\$ _____

### TOTAL BID AMOUNT IN WORDS

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## REQUIRED WORK BID SHEET

Bidder hereby agrees to furnish to the Village all necessary equipment, materials and labor to complete the Work as outlined below in accordance with the provisions, instructions and specifications of the Village.

NO.	ITEM	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL
1	TRENCH BACKFILL, SPECIAL	630	CY		\$
2	CONTROLLED LOW-STRENGTH MATERIAL (CLSM), SPECIAL	50	CY		\$
3	COMBINATION CONCRETE CURB AND GUTTER (B-4.12, B-6.12, B-6.18) R & R, SPECIAL	110	LF		\$
4	PCC DRIVEWAY, 6", R & R	35	SY		\$
5	HMA DRIVEWAY, 3",R & R, SPECIAL	25	SY		\$
6	PAVEMENT PATCHING, CLASS C, 8-INCH, SPECIAL	100	SY		\$
7	PAVEMENT PATCHING, CLASS D, 5-INCH, SPECIAL	85	SY		\$
8	PAVEMENT PATCHING, CLASS D, 7-INCH, SPECIAL	100	SY		\$
9	PAVEMENT PATCHING, COMPOSITE / 8 -INCH PCC WITH HMA OVERLAY, SPECIAL	125	SY		\$
10	REMOVE AND RESET BRICK PAVERS, SPECIAL	50	SF		\$
11	TEMPORARY COLD PATCH	45	TON		\$
12	SAN/STM/COM SEWER R & R,SPECIAL, 8" PVC, SDR-26 [ASTM D-3034] (Repair 5'-90' length)	55	LF		\$
13	SAN/STM/COM SEWER R & R,SPECIAL, 10" PVC, SDR-26 [ASTM D-3034] (Repair 5'-90' length)	125	LF		\$
14	SAN/STM/COM SEWER R & R,SPECIAL, 15" PVC, SDR-26 [ASTM D-3034] (Repair 5'-90' length)	20	LF		\$
15	SAN/STM/COM SEWER R & R, SPECIAL, 18" PVC, F/DY=46 [ASTM F-679] (Repairs 5'-90' length)	102	LF		\$
16	SEWER SERVICE R & R, SPECIAL	16	EA		\$
<b>SUBTOTAL</b>					\$

**REQUIRED WORK BID SHEET  
CONTINUED**

NO.	ITEM	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL
17	MANHOLE CONNECTION	3	EA		\$
18	CATCH BASINS TO BE REPLACED, TYPE A, 48" DIA., TYPE 1 FRAME, OPEN LID, SPECIAL	3	EA		\$
19	MANHOLE TO BE REPLACED, TYPE A, 48" DIA., TYPE 1 FRAME, CLOSED LID, SPECIAL	7	EA		\$
20	VALVE VAULT TO BE REPLACED, TYPE A, 48" DIA., TYPE 1 FRAME, CLOSED LID, SPECIAL	2	EA		\$
21	INLETS TO BE REPLACED, TYPE A, 24" DIAMETER, TYPE 1 FRAME, OPEN LID, SPECIAL	2	EA		\$
22	FRAMES AND LIDS, TYPE 1, CLOSED LID	2	EA		\$
23	BREAKOUT AND REBUILD MANHOLE BENCH, SPECIAL	1	EA		\$
24	ADDITIONAL SAN/STM/COM SEWER PIPE R&R, 4" OR 6" OR 8" PVC, SPECIAL	40	LF		\$
25	ADDITIONAL SAN/STM/COM SEWER PIPE R&R, 10" OR 12" PVC, SPECIAL	30	LF		\$
26	ADDITIONAL SAN/STM/COM SEWER PIPE R&R FOR POINT REPAIRS, 15" & 18" PVC, F/DY=46 [ASTM F-679] SPECIAL	30	LF		\$
27	NEW GATE 8" VALVE WITH 48" VAULT, SPECIAL	2	EA		\$
28	NEW GATE 12" VALVE WITH 48" VAULT, SPECIAL	1	EA		\$
29	REPLACEMENT OF WATER MAIN, SPECIAL, 6-INCH	10	LF		\$
30	REMOVAL AND DISPOSAL OF EXCAVATED MATERIAL, SPECIAL	50	CY		\$
31	REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES, NON-SPECIAL WASTE, SPECIAL	70	CY		\$
32	SOIL DISPOSAL ANALYSIS, SPECIAL*	1	EA		
<b>SUBTOTAL</b>					\$

**REQUIRED WORK BID SHEET  
CONTINUED**

NO.	ITEM	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL
33	BYPASS PUMPING, SPECIAL	2	LS		\$
34	EXPLORATORY EXCAVATION, SPECIAL	2	HR		\$
35	STORM DRAIN INLET PROTECTION, SPECIAL	1	LS		\$
36	TREE PROTECTION, SPECIAL	1	LS		\$
37	TOPSOIL FURNISH AND PLACE / SEED, SPECIAL	30	SY		\$
38	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	20	LF		\$
39	THERMOPLASTIC PAVEMENT MARKING- LINE 12"	80	LF		\$
40	TRAFFIC CONTROL AND PROTECTION, SPECIAL	1	LS		\$
41	PRE- AND POST SEWER VIDEO INSPECTION, SPECIAL	1	LS		\$
<b>SUBTOTAL</b>					\$
<b>SUBTOTAL FROM PAGE 08</b>					\$
<b>SUBTOTAL FROM PAGE 09</b>					\$
<b>REQUIRED WORK TOTAL</b>					\$

### OPTIONAL WORK BID SHEET

Bidder hereby agrees to furnish to the Village all necessary equipment, materials and labor to complete the Work as outlined below in accordance with the provisions, instructions and specifications of the Village for the prices as follows:

NO.	ITEM	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>Bid Option 1: Maple Valve</b>					
A1	NEW GATE 6" VALVE WITH 48" VAULT, SPECIAL	1	EA		\$
A2	TREE PROTECTION, SPECIAL	1	LS		\$
A3	TOPSOIL FURNISH AND PLACE / SEED, SPECIAL	16	SY		\$
<b>OPTIONAL WORK TOTAL</b>					<b>\$</b>

## REFERENCE FORM

Each BIDDER **must** supply at least three (3) names, addresses, telephone numbers and names of persons representing municipalities; to contact as performance references.

Company Name ..... : \_\_\_\_\_

Address ..... : \_\_\_\_\_

City & State ..... : \_\_\_\_\_

Telephone Number..... : \_\_\_\_\_

Person to Contact ..... : \_\_\_\_\_

E-Mail Address ..... : \_\_\_\_\_

Company Name ..... : \_\_\_\_\_

Address ..... : \_\_\_\_\_

City & State ..... : \_\_\_\_\_

Telephone Number..... : \_\_\_\_\_

Person to Contact ..... : \_\_\_\_\_

E-Mail Address ..... : \_\_\_\_\_

Company Name ..... : \_\_\_\_\_

Address ..... : \_\_\_\_\_

City & State ..... : \_\_\_\_\_

Telephone Number..... : \_\_\_\_\_

Person to Contact ..... : \_\_\_\_\_

E-Mail Address ..... : \_\_\_\_\_

## VILLAGE OF WILMETTE BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, \_\_\_\_\_  
\_\_\_\_\_ as Principal, and \_\_\_\_\_ as Surety, are hereby  
held and firmly bound unto the Village of Wilmette as OWNER in the penal sum of \_\_\_\_\_  
\_\_\_\_\_ (representing **10% of the Base Bid Proposal Amount**) for the payment of which, well and truly to be  
made, we hereby jointly and severally bind ourselves, successors and assigns.

Signed, this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

The Condition of the above obligation is such that whereas the Principal has submitted to  
\_\_\_\_\_ a certain BID, attached hereto and  
hereby made a part hereof to enter into a contract in writing, for the project: No. 18145 – 2018 Sewer  
Repair and Water Valve Installation Program

NOW, THEREFORE,

- (a) If said BID shall be rejected, or
- (b) If said BID shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said BID) and shall furnish a BOND for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said BID, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated. The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its BOND shall be in no way impaired or affected by any extension of the time within which the OWNER may accept such bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

\_\_\_\_\_  
Principal (L.S.)

\_\_\_\_\_  
Surety

By: \_\_\_\_\_

IMPORTANT-Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located.

**Signed and sworn this \_\_\_ day of \_\_\_\_\_, 2018**

### CURRENT VILLAGE OF WILMETTE CONTRACTS SHEET

Do you currently hold any Village contracts?  NO  YES (list below)

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**BID AFFIRMATION AND CERTIFICATION****IN SUBMITTING THE SUMMARY BID SHEET, BIDDER AFFIRMS THAT IT:**

1. Has carefully examined all of the documents included in this RFB, including Addenda Nos. \_\_\_\_\_ (if none, write "NONE") and accepts the terms and conditions therein;
2. Acknowledges and is aware of the requirement to visit the site, and did visit the site and became familiar with and is satisfied as to the general, local and site conditions that may affect cost, progress, performance and the furnishing of the Work;
3. Is familiar with the federal, state and local laws and regulations that may affect cost, progress, performance and the furnishing of the Work;
4. Has studied all reports of explorations and tests of subsurface conditions, if any, at or contiguous to the site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the site which have been identified in the Contract Documents. Bidder acknowledges that such reports and drawings, if any, are not Contract Documents and may not be complete for Bidder's purposes. Bidder acknowledges that the Village does not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Contract Documents. In making this bid, Bidder has duly considered all investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and underground facilities) at or contiguous to the site or otherwise, which may affect cost, progress, performance and furnishing of the Work or any aspect of the means, methods, techniques, sequences and procedures of construction to be employed by Bidder and safety precautions and programs incident thereto;
5. Is aware of the general nature of work, if any, to be performed by the Village or others that may relate to Work for which this bid is submitted as indicated in the RFB; and,
6. Has given the Village written notice of all conflicts, errors, ambiguities or discrepancies that Bidder has discovered in the RFB, if any, and the written resolution thereof by the Village is acceptable to Bidder. The RFB is generally sufficient to indicate and convey an understanding of all terms and conditions for performing and furnishing the Work for which this Bid is submitted.
7. Has read and reviewed the following attachments in Appendix Two:
  - a. Attachment Two – General Conditions
  - b. Attachment Three – Special Conditions
  - c. Attachment Four – Sewer TV Report
  - d. Attachment Five – Soil Boring Report
  - e. Attachment Six – Plan Sets

**FURTHER, IN SUBMITTING THIS BID PROPOSAL BIDDER CERTIFIES THAT:**

1. The prices in this bid proposal have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor;
2. Unless otherwise required by law, the prices which have been quoted in the bid have not knowingly been disclosed by Bidder, prior to opening, directly or indirectly to any other bidder or to any competitor;
3. This bid proposal has not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; and,
4. Has not directly or indirectly induced or solicited any other bidder to submit a false or sham bid; has not solicited or induced any person, firm or corporation to bid or refrain from bidding; and has not sought by collusion to obtain for itself any advantage over any other bidder or over the Village.
5. They are familiar with all conditions, instructions, and contract documents governing this bid, including the Bonds and Contract terms attached in Appendix One and Two, and that any exceptions to the contract document are included on the Bid Exception Sheet.
6. The Completion Date for the Work **October 5, 2018** or such extended date as agreed to by Change Order. "Completion" means the stage whereby the Work or a designated portion thereof, is complete, usable, operable and accessible in accordance with the Contract Documents so that the Village can fully occupy or use the Work or the designated portion for its intended purpose without interruptions, and for which only minor or inconsequential punch list items need to be completed. No portion of the Work shall be deemed to have reached Substantial Completion unless and until all regulatory authority approvals have been received and Substantial Completion has been so approved by the Village.
7. All sewer point repairs on **Catalpa Place** must be completed first and on or before **September 1, 2018**.

SIGNED AND SWORN THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2018

Bidder is a  Individual  Corporation or LLC  
 Partnership  Joint Venture

Business entity name \_\_\_\_\_

d/b/a \_\_\_\_\_

Business address \_\_\_\_\_

Business city/state/zip \_\_\_\_\_

Business phone \_\_\_\_\_

Business email \_\_\_\_\_

**If Bidder is an Individual:**

By: \_\_\_\_\_  
(Signature)

By: \_\_\_\_\_  
(Print Name)

/b/a \_\_\_\_\_

**If Bidder is a Partnership:**

\_\_\_\_\_  
(Firm Name)

By: \_\_\_\_\_  
(Signature of Partner)

By: \_\_\_\_\_  
(Signature of Partner)

**If Bidder is a Corporation:**

\_\_\_\_\_  
[Corporate Seal]  
(Corporation Name)

By: \_\_\_\_\_  
(Signature of person authorized to sign)

\_\_\_\_\_  
(Print Name and Title)

Attest \_\_\_\_\_  
(Signature of Secretary)

**If Bidder is a Joint Venture:**

\_\_\_\_\_  
(Name of Joint Venture)

By: \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Print Name)

By: \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Print Name)

**Subscribed and sworn before me  
this \_\_\_ day of \_\_\_\_\_, 2018**

**Notary Public:**

## CERTIFICATION OF COMPLIANCE

**DESCRIPTION:** 2018 Sewer Repair and Water Valve Installation Program

\_\_\_\_\_, having been duly sworn, depose and states as follows:

Having submitted an offer for the above goods and/or services, We hereby certify that: *(initial all that apply)*

**PLEASE CHECK ALL APPLICABLE BOXES**

**BARRED FROM BIDDING:** We are not barred from bidding on these goods and/or services as a result of a violation of either 720 ILCS 5/33E-4 or 720 ILCS 5/33E-5 or of any similar statute of another state or a federal statute containing the same or similar elements.

**SEXUAL HARASSMENT:** We have a written sexual harassment policy in place in full compliance with 775 ILCS 5/2-105(A) (4).

**PAYMENT OF TAXES:** We are not delinquent in the payment of any tax administered by the Illinois Department of Revenue; or if we are, it: (a) is contesting its liability for the tax or the amount of tax in accordance with procedures established by the Approved Revenue Act; or (b) has entered into an agreement with the Department of Revenue for payment of all taxes due and is currently in compliance with that agreement.

**EQUAL PAY ACT:** Consultants, Contractors, and all subcontractors thereof, shall at all times comply with the provisions of the Illinois Equal Pay Act of 2003, 820 ILCS 112/1, *et seq.*

**CONFINED SPACE ENTRY:** We will comply with all requirements of 29 CFR Part 1910 Permit Required for Confined Spaces for General Industry; including Section 1910.146(c) (9) "In addition to complying with the permit space requirements that apply to all employers, each Contractor who is retained to perform permit space entry operations shall: (a) obtain any available information regarding permit space hazards and entry operations from the host employer; (b) coordinate entry operations with the host employer, when both host employer personnel and Contractor personnel will be working in or near permit spaces, as required by paragraph (d)(11); and (c) inform the host employer of the permit space program that the Contractor will follow and of any hazards confronted or created in permit spaces, either through a debriefing or during the entry operation."

**DRUG-FREE WORKPLACE:** We will comply with all requirements Pursuant to Chapter 30, Section 580/1 of the Illinois Compiled Statutes (30 ILCS 580/1) et. Seq. entitled "Drug Free Workplace Act"; we will provide a drug-free workplace by:

1) Publishing a statement:

- a) Notifying employees that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance, including cannabis, is prohibited in the grantee's of Contractor's workplace.
- b) Specifying the actions that will be taken against employees for violations of such prohibition.
- c) Notifying the employee that, as a condition of employment on such contract or grant, the employee will:

- i) Abide by the terms of the statement; and

- ii) Notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than 5 days after such conviction.

2) Establishing a drug free awareness program to inform employees about:

- a) the dangers of drug abuse in the workplace;
  - b) the grantee's or Contractor's policy of maintaining drug free workplace;
  - c) any available drug counseling, rehabilitation, and employee assistance program; and
  - d) the penalties that may be imposed upon employees for drug violations.
- 3) Making it a requirement to give a copy of the statement required by subsection (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.
  - 4) Notifying the contracting agency within 10 days after receiving notice under part (B) of paragraph (3) of subsection (a) from an employee or otherwise receiving actual notice of such conviction.
  - 5) Imposing a sanction on, or requiring the satisfactory participation in a drug assistance or rehabilitation program by any employee who is so convicted, as required by Section 5 (30 ILCS 580/5) of the Act.
  - 6) Assisting employees in selecting a course of action in the event drug counseling treatment and rehabilitation is required, and indicating that a trained referral team is in place.
  - 7) Making a good faith effort to continue to maintain a drug free workplace through implementation of this Section.
  - 8) Failure to abide by this certification shall subject the Contractor to the penalties provided in Section 6 (30 ILCS 580/6) of the Act.

**NATIONAL SECURITY/USA PATRIOT ACT:** We represent and warrant that, pursuant to the requirements of the USA Patriot Act and applicable Presidential Executive Orders, neither we nor any of our principals, shareholders, members, partners, or affiliates, as applicable, as a person or entity are named as a Specially Designated National and Blocked Person (as defined in Presidential Executive Order 13224) and that we are not acting, directly or indirectly, for or on behalf of a Specially Designated National and Blocked Person. We further represent and warrant that we and our principals, shareholders, members, partners, or affiliates, as applicable, are not, directly or indirectly, engaged in, and are not facilitating, the transactions contemplated by this Agreement on behalf of any person or entity named as a Specially Designated National and Blocked Person.

We further represent and warrant we are not acting, directly or indirectly, for or on behalf of any person, group, entity, or nation named by the United States Treasury Department as a Specially Designated National and Blocked Person, or for or on behalf of any person, group, entity, or nation designated in Presidential Executive Order 13224 as a person who commits, threatens to commit, or supports terrorism; and that we are not engaged in this transaction directly or indirectly on behalf of or facilitating this transaction directly or indirectly on behalf of, any such person, group, entity, or nation.

We hereby agree to defend, indemnify, and hold harmless the Village of Wilmette, its Corporate Authorities, and all Village of Wilmette elected or appointed officials, officers, employees, agents, representative, engineers, and attorneys, from and against any and all claims, damages, losses, risks, liabilities, and expenses (including reasonable attorneys' fees and costs) arising from or related to any breach of the foregoing representation and warrant.

**EQUAL EMPLOYMENT OPPORTUNITY:** In the event of the Contractor's non-compliance with the provisions of this Equal Employment Opportunity Clause, the Illinois Human Rights Act or the Rules and Regulations of the Illinois Department of Human Rights ("Department"), the Contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and the contract may be cancelled or voided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation. During the performance of this contract, the Contractor agrees as follows:

- 1) That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, marital status, national origin or ancestry, citizenship status, age, physical or mental handicap unrelated to ability, military status, or an unfavorable discharge from military service; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.
- 2) That, if it hires additional employees in order to perform this contract or any portion thereof, it will determine the availability (in accordance with the Department's Rules) of minorities and women in the areas from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.
- 3) That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, sexual orientation, marital status, national origin or ancestry, citizenship status, age, physical or mental handicap unrelated to ability, military status, or an unfavorable discharge from military service.
- 4) That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Contractor's obligations under the Illinois Human Rights Act and the Department's Rules. If any such labor organization or representative fails or refuses to cooperate with the Contractor in its efforts to comply with such Act and Rules, the Contractor will promptly so notify the Department and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations thereunder.
- 5) That it will submit reports as required by the Department's Rules, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Department's Rules.
- 6) That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and the Department for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules.
- 7) That it will include verbatim or by reference the provisions of this clause in every subcontract it awards under which any portion of the contract obligations are undertaken or assumed, so that such provisions will be binding upon such subcontractor. In the same manner as with other provisions of this contract, the Contractor will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply therewith. In addition, the Contractor will not utilize any subcontractor declared by the Illinois Human Rights Commission to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

## ILLINOIS PUBLIC WORKS EMPLOYMENT DISCRIMINATION ACT

10/1. Discrimination in employment prohibited: (a) No person shall be refused or denied employment in any capacity on the ground of unlawful discrimination, as that term is defined in the Illinois Human Rights Act, nor be subjected to unlawful discrimination in any manner, in connection with the contracting for or the performance of any work or service of any kind, by, for, on behalf of, or for the benefit of this State, or of any department, bureau, commission, board, or other political subdivision or agency thereof (b) The Illinois Human Rights Act applies to all contracts identified in subsection (a). 10/2. Deemed incorporated in contract: The provisions of this Act shall automatically enter into and become a part of each and every contract or other agreement hereafter entered into by, with, for, on behalf of, or for the benefit of this State, or of any department, bureau, commission, board, other political subdivision or agency, officer or agent thereof, providing for or relating to the performance of any of the said work or services or of any part thereof.

10/3. Includes independent contractors, etc.: The provisions of this Act also shall apply to all contracts entered into by or on behalf of all independent contractors, subcontractors, and any and all other persons, association or corporations, providing for or relating to the doing of any of the said work or the performance of any of the said services, or any part thereof.

10/4. Deduction from compensation: No Contractor, subcontractor, nor any person on his or her behalf shall, in any manner, discriminate against or intimidate any employee hired for the performance of work for the benefit of the State or for any department, bureau, commission, board, other political subdivision or agency, officer or agent thereof, on account of race, color, creed, sex, religion, physical or mental handicap unrelated to ability, or national origin; and there may be deducted from the amount payable to the Contractor by the State of Illinois or by any municipal corporation thereof, under this contract, a penalty of five dollars for each person for each calendar day during which such person was discriminated against or intimidated in violation of the provisions of this Act.

10/5. Recovery by injured person: Any person, agency, corporation or association who violates any of the provisions of this Act, or who aids, abets, incites or otherwise participates in the violation of any of the provisions, whether the violation or participation therein occurs through action in a private, public or in any official capacity, shall be guilty of a petty offense for each and every violation or participation therein with respect to each person aggrieved thereby, to be recovered by each such aggrieved person, or by any other person to whom such aggrieved person shall assign his cause of action, in the circuit court in the county in which the plaintiff or the defendant shall reside.

10/6. Violations; punishment: Any person who or any agency, corporation or association which shall violate any of the provisions of the foregoing sections, or who or which shall aid, abet, incite or otherwise participate in the violation of any of the said provisions, whether the said violation or participation therein shall occur through action in a private, in a public, or in any official capacity, shall also be deemed guilty of a petty offense for each and every said violation or participation or, in the case of non-corporate violators, or participators, of a Class B misdemeanor.

10/7. To be inscribed in contract: The provisions of this Act shall be printed or otherwise inscribed on the face of each contract to which it shall be applicable, but their absence therefrom shall in no wise prevent or affect the application of the said provisions to the said contract.

10/8. Partial invalidity; construction: The invalidity or unconstitutionality of any one or more provisions, parts, or sections of this Act shall not be held or construed to invalidate the whole or any other provision, part, or section thereof, it being intended that this Act shall be sustained and enforced to the fullest extent possible and that it shall be construed as liberally as possible to prevent refusals, denials, and discriminations of and with reference to the award of contracts and employment thereunder, on the ground of race, color, creed, sex, religion, physical or mental handicap unrelated to ability, or national origin.

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PLEASE CHECK THE APPLICABLE BOX

There are no conflicts of interest: and in the event that a conflict of interest is identified anytime during the duration of this award, or reasonable time thereafter, you, your firm or your firm's ownership, management or staff will immediately notify the Village of Wilmette in writing.

There is an affiliation or business relationship between you, your management or staff, your firm, or your firm's ownership, and an employee, officer, or elected official of the Village of Wilmette who makes recommendations to the Village of Wilmette with respect to expenditures of money, employment, and elected or appointed positions. Provide any and all affiliations or business relationships that might cause a conflict of interest or any potential conflict of interest. Include the name of each Village of Wilmette affiliate with whom you, your firm, or your firm's ownership, management or staff, has an affiliation or a business relationship.

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PLEASE CHECK THE APPLICABLE BOX

We have a good safety record with OSHA.

We have had an OSHA violation within the past 5 years. (Attach explanation)

---

SIGNATURE OF PARTY AUTHORIZED TO EXECUTE THIS AGREEMENT

By: \_\_\_\_\_  
(Signature)

By: \_\_\_\_\_  
(Print Name)

d/b/a \_\_\_\_\_

Business address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Business Phone #: \_\_\_\_\_

Cell Phone #: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

## **APPENDIX ONE**

**Successful Bidder Only**  
Performance Bond  
Payment Bond

### PERFORMANCE BOND

BE IT KNOWN TO ALL PERSONS that:

\_\_\_\_\_ (Name of Contractor)

\_\_\_\_\_ (Address)

hereinafter referred to as "Principal" and,

\_\_\_\_\_ (Name of Surety)

\_\_\_\_\_ (Address)

hereinafter referred to as "Surety"

are held and firmly bound unto the Village of Wilmette, 1200 Wilmette Avenue, Wilmette, Illinois, 60091, (hereinafter referred to as "Owner") in the penal sum of \_\_\_\_\_ Dollars, (\$\_\_\_\_\_) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, executors and administrators, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that Principal and Surety agree to bind themselves, successors, executors, administrators and assigns, jointly and severally, for the full and faithful performance of Contract No. 18145 dated the \_\_\_ day of \_\_\_\_\_ 2017, (hereinafter referred to as the "Contract", a copy of which is attached and incorporated by reference as though fully set forth herein) for the 2018 Sewer Repair and Water Valve Installation Program ("Work") in accordance with the Contract Documents.

NOW, THEREFORE, if the Principal shall well, truly, fully and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said Contract during the original term thereof, and any extensions thereof which may be granted by the Owner, with or without notice to the Surety, including its agreement to guaranty and maintain said Work for a one (1) year period following final payment to such Principal, and if Principal shall satisfy all claims and demands incurred under such Contract, and shall fully indemnify and save harmless the Owner from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the Owner all outlay and expense which the Owner may incur in making good any default, then the amount of this Bond shall be reduced to ten percent (10%) of the amount set forth on the first page hereof for a period of one (1) year; otherwise to remain in full force and effect.

PROVIDED FURTHER, that said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the Work to be performed thereunder or to the Contract Documents accompanying the same, shall in any way affect its obligation on this Bond and it does hereby waive notice of any such change, extension of time, alteration, or addition to the terms of the Contract or to the Work or to the Contract Documents.

PROVIDED FURTHER, that no final settlement between the Owner and Principal shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in \_\_\_\_ counterparts, each one of which shall be deemed an original and this the \_\_\_\_ day of \_\_\_\_\_ 2018.

ATTEST:

\_\_\_\_\_ (Principal)

By: \_\_\_\_\_

ATTEST:

\_\_\_\_\_ (Surety)

By: \_\_\_\_\_

NOTE: Date of Bond must not be prior to date of Contract.  
If Contractor is Partnership, all partners should execute Bond.

IMPORTANT: Surety companies executing Bonds must appear on the Treasury Departments most current list (Circular 570 as amended) and be authorized to transact business in the state where the Work is located.

**PAYMENT BOND**

BE IT KNOWN TO ALL PERSONS: that

\_\_\_\_\_ (Name of Contractor)

\_\_\_\_\_ (Address)

hereinafter referred to as "Principal" and,

\_\_\_\_\_ (Name of Surety)

\_\_\_\_\_ (Address)

hereinafter referred to as "Surety"

are held and firmly bound unto the Village of Wilmette, 1200 Wilmette Avenue, Wilmette, Illinois, 60091, (hereinafter referred to as "Owner") in the penal sum of \_\_\_\_\_ Dollars, (\$\_\_\_\_\_) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, executors and administrators, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, Principal entered into Contract No. 18145 with the Owner, dated the \_\_\_\_ day of \_\_\_\_\_, 2018, a copy of which is hereto attached and made a part hereof for the 2018 Sewer Repair and Water Valve Installation Program ("Work").

NOW, THEREFORE, if Principal shall promptly make payment to all persons, firms, subcontractors, corporations and others furnishing materials for or performing labor in the prosecution of the Work provided for in such Contract or the Contract Documents, and any authorized extension or modification thereof, including, but not limited to, all amounts due for services, inspections, supplies, materials, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such Work, and all insurance premiums on said Work, and for all labor performed in such Work whether by subcontractor or otherwise, then this obligation shall be void; otherwise it shall remain in full force and effect.

PROVIDED FURTHER, that the said Surety for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the Work to be performed hereunder or the Contract Documents accompanying the same shall in any wise affect its obligation on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the Work or to the Contract Documents.

PROVIDED, FURTHER, that no final settlement between the Owner and the Principal shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

WITNESS WHEREOF, this instrument is executed in \_\_\_\_ counterparts, each one of which shall be deemed an original on the dates stated herein.

Accepted this day \_\_\_\_ of \_\_\_\_\_, 2018.

\_\_\_\_\_ (Principal)

By: \_\_\_\_\_  
Name/Title

Accepted this day \_\_\_\_ of \_\_\_\_\_, 2018.

\_\_\_\_\_ (Surety)

By: \_\_\_\_\_  
Name/Title

NOTE: Date of Bond must not be prior to date of Contract.  
If Contractor is Partnership, all partners should execute Bond.

IMPORTANT: Surety companies executing Bonds must appear on the Treasury Department's most current list (Circular No. 570 as amended) and be authorized to transact business in the State of Illinois.  
representative, engineers, and attorneys, from and against any and all claims, damages, losses,

## **APPENDIX TWO**

Contract with Successful Bidder Only



**VILLAGE OF WILMETTE  
1200 Wilmette Ave  
Wilmette, IL 60091**

**Contract No. 18145**

**For:**

**2018 Sewer Repair and Water Valve Installation Program**

**With:**

**TBD  
TBDAddress  
TBDCityStateZip**

**Note: This cover sheet is an integral part of the contract documents, as are all of the following documents, and are a part of this contract as executed between the Village of Wilmette and TBD. Do not detach any portion of this document. Invalidation could result.**

1. The intent of the Agreement is to acquire the services to perform the 2018 Sewer Repair and Water Valve Installation Program per the Specification shown in Attachment One through Attachment Six (collectively, "ATTACHMENTS") of this document. The Agreement is for the bid offered by TBD ("Contractor") to the Village of Wilmette ("Village").

2. This Addendum is made pursuant to the bid response dated \_\_\_\_\_, \_\_\_\_\_, 2018 attached as Attachment One. Together this Addendum and the ATTACHMENTS shall comprise the Agreement between the parties.

3. Incorporation. This Addendum is incorporated into the ATTACHMENTS and the Agreement shall not be effective unless this Addendum is also executed by the Parties.

4. Effective date of Addendum. This Addendum shall be effective as of the date of the Attachment One and is intended to be a part of the Agreement.

5. Total Contract Amount. The total amount of the Contract shall not exceed \$\_\_\_\_\_, including expenses. The Village is a tax-exempt municipality. The Village's Department of Revenue Tax Exempt ID # is E9998-1106-07. Contractor shall not charge the Village any tax incurred by the Contractor for these services.

6. Scope of Work. The scope of Work sought by the Village shall include the provision of all required labor, materials, equipment and expertise related to the 2018 Sewer Repair and Water Valve Installation Program as outlined in the ATTACHMENTS.

7. Coordination of Work. Contractor shall be in charge of and responsible for the coordination, scheduling, installation, means, methods, techniques, performance and sequence of all elements of the Work unless otherwise stated in the Contract Documents. Contractor shall be responsible for all lines, levels and measurements of all Work to be executed under the Contract Documents. The Contractor shall verify the figures before laying out the Work and will be held responsible for any error resulting from failure to do so. Contractor will establish and maintain bench marks and other dependable markers to set lines and levels for Work at each area of construction and elsewhere on the site as needed to properly locate each element of the entire Project. Contractor shall advise Subcontractors and trades persons performing Work of marked lines and levels provided for their use in layout of the Work.

8. Supervision of Work. Contractor shall properly supervise the performance of the Work so as to ensure its completion in a timely manner, safely, accurately, and in accordance with the requirements of the contract documents. Contractor shall be fully responsible and assumes liability for the acts and omissions of all persons directly or indirectly employed by, or working at the direction of, the Contractor in the completion of the work.

At any time the Contractor has one or more crews working in the Village, the Contractor will also have a designated manager level or above representative (i.e. emergency contact) IN THE VILLAGE and available by cell phone. The representative shall call or email and provide their name and cell phone number to the Engineering and Public Works Department at 847.853.7500 / [pubworks@wilmette.com](mailto:pubworks@wilmette.com) each day a crew is working in the Village.

The representative shall have a complete working knowledge of the Work included herein; oversee the work being performed by the Contractor's crews; and meet weekly with a Village employee to inspect and sign-off on the work performed. In addition, the representative will also have full authority to:

- a. Manage, engage and/or discharge Contractor's employees;
- b. Promptly supply any necessary equipment, materials or incidentals; and
- c. Negotiate on the Contractor's behalf and legally commit the Contractor in writing to any changes, additions or deletions to the Work included herein or new Work requested by the Village in writing up to a limit of \$2,500.

2. Quality of the Work. Contractor shall be solely responsible for conducting the Work in such a manner as to complete it safely, accurately and within the time specified in the Contract Documents. The Work shall be done in a thorough and workman-like manner in accordance with the Contract Documents. Contractor shall provide only materials and tools of the best quality for the Work. No secondhand material can be used in any case. Should anything be brought to the worksite that is not to be used on the Work, the same shall be removed when directed. All labor furnished by the Contractor must be efficient and skilled in the Work. All Work must pass inspection by the Village.

3. Timing of Work. The Contractor shall begin work on or about August 2018 and be completed by October 5, 2018. No Work shall be done prior to the receipt of a mutually agreed to and signed contract and a Village of Wilmette Purchase Order signed by the Village's purchasing manager.

4. Payment. Contractor shall submit invoices by email to [AP@wilmette.com](mailto:AP@wilmette.com) and must include the Village's Purchase Order number prominently displayed on page 1 of the Contractor's invoice. Invoices may also be sent to the Village of Wilmette, Finance Department, 1200 Wilmette Ave., Wilmette, IL 60091-0440. Payment of invoices with the Village's Purchase Order number will be due within 30 days of receipt at either [AP@wilmette.com](mailto:AP@wilmette.com) or at the above referenced mailing address. Invoices received without the Village's Purchase Order number will be due within 45 days of receipt at either [AP@wilmette.com](mailto:AP@wilmette.com) or at the above referenced mailing address.

Invoices shall provide a detailed breakdown of the amount billed, including the name, title, rate of pay, hours worked and services rendered by each individual during the period stated. Invoices shall reflect all prior amounts billed and paid to date. Invoices shall be accompanied by a progress report setting forth the rates of completion for all tasks scoped and for all deliverable products.

Invoices shall not be deemed due and owing unless and until the following are submitted: progress report; legally effective releases and waivers of lien covering work for which prior payment to Contractor has been made; and, certified payroll records required by the Illinois Prevailing Wage Act have been submitted.

Notwithstanding the terms herein, and without prejudice to any of its other rights or remedies, the Village shall have the right to withhold from any payment that may be or become due such amount as may reasonably appear necessary to compensate the Village for any actual or prospective loss due to defective Work or Work that does not conform to the Contract Documents; damage for which the Contractor is liable; state or local sales, use or excise taxes that may have been paid by Contractor or any of its Subcontractors; any lien or claim of third parties, subcontractors or suppliers regardless of merit; inability of the Contractor to complete the performance of the Work; or any other failure by the

Contractor to perform any of its obligations under the Contract Documents. The Village shall be entitled to retain any and all amounts so withheld until the Contractor either performs the outstanding obligation, or furnishes security in a form acceptable to the Village for such performance.

5. Limitation of Remedy. Village's liability to Contractor for breach of this Contract shall be limited to amounts due for acceptable goods and services already received or performed and not paid for, not to exceed the Total Contract Amount.

6. Relationship of the Parties. The Contractor shall act as an independent contractor in providing and performing all work. Nothing in or done pursuant to, this Contract shall be construed (1) to create the relationship of principal and agent, employer and employee, partners, or joint ventures between the Village and the Contractor; or (2) to create any relationship between the Village and any subcontractor of the Contractor.

7. No Collusion. The Contractor represents and certifies that this Contract is made by the Contractor without collusion with any other person, firm, or corporation. If at any time it shall be found that the Contractor has, in procuring this Contract, colluded with any other person, firm, or corporation, then the Contractor shall be liable to the Village for all loss or damage that the Village may suffer, and this Contract shall, at the Village's option, be null and void.

8. Licensure and Compliance with Laws. Contractor represents that it has all necessary licenses and permits to perform its services in the State of Illinois and the Village of Wilmette, and that at all times it shall comply with applicable law, including the Fair Debt Collection Practices Act. Contractor shall review and where appropriate certify its compliance with certain laws as provided for in the Certification of Compliance attached.

Contractor further represents that it, its employees, agents and subcontractors shall hold all required licenses, permits, qualifications and certificates, and have duly registered and otherwise complied in all respects with all applicable federal, state and local laws, regulations and ordinances applicable to the performance of this Contract.

9. Amendment. No amendment or modification to the Contract shall be effective unless and until such amendment or modification is in writing, properly approved in accordance with applicable procedures, and executed by both the Village and the Contractor.

10. Assignment. The Contract may not be assigned by the Village or by the Contractor without the prior written consent of the other party.

11. Notice. Any required or permitted notices hereunder must be given in writing at the address of each party set forth below, or to such other address as either party may substitute by written notice to the other in the manner contemplated herein, by one of the following methods: hand delivery; registered, express, or certified mail, return receipt requested, postage prepaid; or nationally-recognized private express courier:

Contractor  
 TBD  
 TBD Address  
 TBDCityStateZip

Village  
 Director of Public Works & Engineering  
 Engineering & Public Works  
 711 Laramine  
 Wilmette, IL 60091

with a copy to:  
 Village Counsel  
 1200 Wilmette Ave  
 Wilmette, IL 60091

12. Binding Effect. The terms of this Contract shall bind and inure to the benefit of the parties hereto and their agents, successors, and assigns.

13. No Third Party Beneficiaries. No claim as a third party beneficiary under the Contract by any person, firm, or corporation other than the Contractor shall be made, or be valid, against the Village.

14. Waiver. No waiver of any provision of the Contract shall be deemed to or constitute a waiver of any other provision of the Contract (whether or not similar) nor shall any such waiver be deemed to constitute a continuing waiver unless otherwise expressly provided in this Contract.

15. Contractor's Insurance Requirements

At the time of execution of the Contract, Contractor shall furnish to the Village satisfactory proof of the required insurance coverage stated below. Such proof shall consist of certificates executed by the respective insurance companies together with executed copies of an "Additional Insured Endorsement" which shall be made a part hereof. Said certificates shall expressly provide that, for the duration of the Contract, the insurance policy shall not be suspended, cancelled, or reduced in coverage or amount without 30 days prior written notice by certified mail, return receipt requested to the Village. In addition, said certificates shall name the Village and its corporate authorities, officers, agents and employees as additional insured's on all required insurance policies.

Contractor shall procure and maintain without interruption from the time of the execution of the Contract until final payment, insurance against all claims for injury to or death of a person or persons or damage to property, which may arise wholly or in part from the performance of the work hereunder by Contractor or its subcontractors. The scope of coverage shall be at least as broad as, and shall be in amounts not less than, the following:

- a. Comprehensive General Liability, \$1,000,000 combined single limit per occurrence for personal bodily injury and property damage. The general aggregate shall be no less than \$2,000,000;
- b. Business Auto Liability, \$1,000,000 combined single limit for bodily injury and property damage;

- c. Workers Compensation – covering all liability of the Contractor arising under the Worker’s Compensation Act and Workmen’s Occupational Disease Act;; Employers Liability \$1,000,000.00 (the policy shall include a 'waiver of subrogation');
- d. Umbrella Coverage, \$2,000,000 per occurrence.
- e. Owners and Contractor’s Protective Liability, \$1,000,000 combined single limit per occurrence for bodily injury and property damage, with the Village as named insured;
- f. Builder’s Risk against all risk of physical damage, including water damage (flood and hydrostatic pressure not excluded), on a completed replacement cost basis.

All insurance required herein of Contractor shall be valid and enforceable policies, insured by insurers licensed and permitted to do business by the State of Illinois or surplus line carriers qualified to do business in the State of Illinois. All insurance carriers and surplus line carriers shall be rated A-, VII or better by A.M. Best Company.

Contractor shall require all subcontractors not protected under the Contractor’s policies to take out and maintain insurance of the same nature, in the same amounts and under the same terms as required herein of Contractor. Contractor shall confirm subcontractor compliance with the requirements stated herein prior to the performance of any work by a subcontractor.

Contractor expressly understands and agrees that any bonds or insurance policies required to be maintained shall in no way limit, to any extent, Contractor’s responsibility to indemnify, keep and save harmless and defend the Village its officers, agents, employees, representatives and assigns. Contractor’s insurance coverage shall be primary as respects to any insurance or self-insurance maintained by the Village, which insurance of the Village shall be excess of Contractor’s insurance and shall not contribute with it.

16. Kotecki Waiver. Contractor (and any subcontractor into whose subcontract this clause is incorporated) agrees to assume the entire liability for all personal injury claims suffered by its own employees and waives any limitation of liability defense based upon the Worker's Compensation Act and cases decided there under. Contractor agrees to indemnify and defend the Village from and against all such loss, expense, damage or injury, including reasonable attorneys' fees, which the Village may sustain as a result of personal injury claims by Contractor’s employees, except to the extent those claims arise as a result of the Village’s own negligence.

17. Performance and Payment Bonds. The Contractor will be required to furnish Performance and Payment Bonds for one hundred (100%) percent of the contract sum. Said Bonds shall be in a form acceptable to the Village and must be deposited with the Village at the time of execution of the Contract.

18. Prevailing Wage Rate. All Contractors and subcontractors must pay prevailing wages as required by the Illinois Prevailing Wage Act (820 ILCS 130/01. et. seq.). The Prevailing Wage Act requires that all Contractors and subcontractors performing work on any public works pay the generally prevailing rate of hourly wages and benefits in the locality where the work is done for the craft or type of worker or mechanic needed on the project. The Contractor and subcontractors must submit, on a monthly basis, a certified payroll to the Village of Wilmette. The Contractor and subcontractors are responsible for ensuring their understanding and compliance with all aspects of the Act. Pursuant to the Prevailing Wage Act, the Contractor must insert into each subcontract (and each Subcontractor to cause to be inserted into each lower tiered subcontract) and into the project specifications for each

subcontract a written stipulation to the effect that not less than the prevailing rate of wages shall be paid to all laborers, workers, and mechanics performing Work under the Agreement.

If the prevailing wage rates are revised by the Illinois Department of Labor at any time during the term of this Agreement, the revised prevailing wage rates shall apply to the work performed pursuant to the Agreement, and all Contractors and subcontractors shall pay their employees in accordance with the new prevailing wage rate. Prevailing wage rate updates can be obtained from the Illinois Department Labor at 1 West Old State Capitol Plaza, Room 300, Springfield, Illinois 62701, (217) 782-1710, or on the Internet at <http://www.state.il.us/agency/idol/>.

Contractor shall defend and hold harmless the Village, for any claim, suit or action, including costs of defense, expert witness and attorney fees, either at law, equity or in an administrative proceeding, arising from any alleged violation of the Prevailing Wage Act. The requirements of this Section shall survive the termination of the Agreement formed hereunder.

19. General indemnification. To the fullest extent permitted by law, the Contractor will indemnify, defend and hold harmless the Village, any other governmental agency providing funding for all or any portion of the Contract sum, and their officers, directors, employees, agents, affiliates and representatives, from and against any and all claims, demands, suits, liabilities, injuries (personal or bodily), property damage, causes of action, losses, expenses, damages or penalties, including, without limitation, court costs and attorneys' fees, arising or resulting from, or occasioned by or in connection with (i) the performance by the Contractor, its employees, agents and subcontractors, of the services and other duties and obligations under this Contract, (ii) any act or omission to act by the Contractor, its employees, agents and subcontractors, anyone directly or indirectly employed by them, their agents or anyone for whose acts they may be liable, and/or (iii) any breach, default, violation or nonperformance by the Contractor of any term, covenant, condition, duty or obligation provided in this Contract. This indemnification, defense and hold harmless obligation will survive the termination or expiration of this Contract, whether by lapse of time or otherwise. This indemnification obligation will not be limited (i) by a limitation on the amount or type of damages, compensation or benefits payable by or for the Contractor or any other party under workers' or workmen's compensation acts, disability benefit acts or other employee benefits acts, or (ii) pursuant to any common law or case law.

20. Contract Termination: The Village reserves the right to terminate the contract in whole or in part, upon ten (10) calendar day's written notice to the Contractor. The Village further reserves the right to terminate the whole or any part of this contract, in the event of default by the Contractor. Default is defined as failure of the Contractor to perform any of the provisions of this contract or failure to make sufficient progress so as to endanger performance of this contract in accordance with its terms. The Contractor shall be liable for any related costs unless acceptable evidence is submitted to the Village that failure to perform the contract was due to cause beyond the control and without the fault or negligence of the Contractor. The Contractor will not be liable to perform if situations arise by reason of acts of God or the public enemy, acts of the Village, fires or floods.

21. No Liability of Public Officials. No official, employee or agent of the Village will be charged personally by the Contractor, or by any assignee, with any liability or expenses of defense or be personally liable to them under any term or provision of this Contract, or because of the Village's execution or attempted execution, or because of any breach hereof.

22. Change In Status. The Contractor shall notify the Village immediately of any change in its status resulting from any of the following: (a) vendor is acquired by another party; (b) vendor becomes insolvent; (c) vendor, voluntary or by operation law, becomes subject to the provisions of any chapter of the Bankruptcy Act; (d) vendor ceases to conduct its operations in normal course of business. The Village shall have the option to terminate its contract with the vendor immediately on written notice based on any such change in status.

23. Subletting of Contract. The Contractor may sublet portions of the work; however each subcontract must be approved by the Village in writing prior to commencement of work. Subcontractors shall conform, in all respects, to the applicable provisions specified herein for the Contractor and shall be subject to approval by the Village. Contractor shall not employ any subcontractor, either initially or as a substitute, against whom the Village has a reasonable objection.

Subcontractors shall be under the sole direction, authority and responsibility of the Contractor and Contractor shall take all steps necessary to ensure that subcontractors comply with the Contract requirements. The work to be done by the subcontractors shall be outlined in detail by the Contractor.

Contractor shall be fully responsible to the Village for any and all acts and omissions of the Contractor's suppliers, subcontractors and others performing or furnishing any of the Work directly or indirectly on behalf of the Contractor.

In no case shall such consent relieve the Contractor from its obligation or change the terms of the contract. At all times the Contractor shall maintain no less than fifty-one (51) percent of the dollar value of the contract by direct employees of the Contractor.

24. Illinois Freedom of Information Act

Contractor agrees to furnish all documentation related to this Contract and any documentation related to the Village required under an Illinois Freedom of Information Act (ILCS 140/1 et. seq.) ("FOIA") request within five (5) days after Village issues notice of such request. Contractor agrees to defend, indemnify and hold harmless the Village, and agrees to pay all reasonable costs connected therewith (including, but not limited to reasonable attorney's and witness fees, filing fees and any other expenses) for the Village to defend any and all causes, actions, causes of action, disputes, prosecutions, or conflicts arising from Contractor's actual or alleged violation of the FOIA or Contractor's failure to furnish all documentation related to a request within five (5) days after Village issues notice of a request.

Furthermore, should Contractor request that Village utilize a lawful exemption under FOIA in relation to any FOIA request thereby denying that request, Contractor agrees to pay all costs connected therewith (such as reasonable attorneys' and witness fees, filing fees and any other expenses) to defend the denial of the request. The defense shall include, but not be limited to, challenged or appealed denials of FOIA requests to either the Illinois Attorney General or a court of competent jurisdiction. Contractor agrees to defend, indemnify and hold harmless the Village, and agrees to pay all costs connected therewith (such as reasonable attorneys' and witness fees, filing fees and any other expenses) to defend any denial of a FOIA request by Contractor's request to utilize a lawful exemption to the Village.

25. Conflict of Forms. In the event of a conflict between the terms in this Contract and the attached Exhibits to the Contract, the terms of the Contract shall control.

26. Governing Law and Venue. This Contract shall be governed by the laws of the State of Illinois. Venue for any and all actions to enforce this Contract shall be the Circuit Court of Cook County, Illinois.

27. Effective Date. The Contract shall be binding on the parties and effective only as of the date fully executed by both parties.

IN WITNESS WHEREOF, the Village of Wilmette, Illinois by Robert T. Bielinski, Village President, and the Contractor have hereunto set their hands to this Contract on the \_\_\_\_ day of \_\_\_\_\_, 2018.

**THE VILLAGE OF WILMETTE, ILLINOIS**

Accepted this \_\_\_\_ day of \_\_\_\_\_, 2018

\_\_\_\_\_  
Robert T. Bielinski, Village President

Attest: \_\_\_\_\_  
Timothy J. Frenzer, Village Clerk

**FOR THE CORPORATION**

An officer duly authorized by the corporation shall sign here:

Accepted this \_\_\_\_ day of \_\_\_\_\_, 2018

\_\_\_\_\_  
By \_\_\_\_\_ Position/Title

\_\_\_\_\_  
By \_\_\_\_\_ Position/Title

\_\_\_\_\_  
Print Company Name

**An officer duly authorized should sign and attach corporate seal**

**ATTACHMENT ONE**

**VENDOR/CONTRACTOR'S PROPOSAL DATED mm/dd/yy**

**ATTACHMENT TWO**  
**General Contract Conditions**

The following General Contract Conditions are an integral part of and are incorporated by reference into this Contract, as though fully set forth therein.

**SECTION 1. DEFINITIONS**

- A. The term "Architect" shall mean that entity or person with whom the Village has a contract for the Project, including its employees and duly authorized representatives.
- B. The term "ASTM" whenever used in the contract documents shall be construed to mean the "American Society for Testing and Materials".
- C. The term "AWWA Standards" whenever used in this document shall be construed to mean the published standards of the "American Water Works Association", Denver, Colorado.
- D. The term "Change Order" shall mean the document signed by Contractor and the Village which authorizes an addition, deletion, or revision in the Work or an adjustment in the Contract Amount or the Contract Time, issued on or after the Effective Date of the Contract.
- E. The term "Contract Documents" shall mean those documents specifically identified in the Contract between the Village and Contractor, including but not limited to, the Notice to Bidders, Instructions to Bidders, General Conditions, Special Provisions, Plans and Drawings, Specifications, Bid Proposal Form, Substitution Sheet, Bidder's Certifications, Addenda, Pre-Bid Attendance Form, Contract, Performance Bond, Payment Bond, Notice of Award, Notice to Proceed, Contractor Certifications, and Change Orders executed subsequent to the Effective Date of the Contract, if any.
- F. The term "Contractor" whenever used in the Contract Documents shall be construed to mean the person, partnership, corporation, joint venture or other business entity (including its employees, agents or others performing the Work on its behalf, or at its direction) having executed the Contract with the Village to perform the Work so specified.
- G. The term "Defective" when modifying the term "Work" shall mean work that is deficient, unsatisfactory, or faulty in that it fails to conform either to the Contract Documents or to any applicable inspection standard, test, or required approval. Defective work shall also include any Work that has been damaged, through no fault of the Village, prior to certification of final completion.
- H. The term "Director of Engineering" whenever used in the contract documents shall be construed to mean the Director of Engineering of the Village of Wilmette or his/her appointed representative.
- I. The term "Engineer" shall mean that entity or person with whom the Village has a contract for the Project, including its employees and duly authorized representatives.
- J. The term "Progress Schedule" shall mean the schedule, prepared and maintained by Contractor, which describes the sequence and duration of the work activities necessary to accomplish the Work within the Contract Times.
- K. The term "Project" means the entirety of the Work intended to be performed pursuant to the

Contract Documents including construction, if any, by the Village or by separate contract.

L. The term "Project Manager" means the Village's representative for matters involving the Project.

M. The term "Provide" shall mean furnish, install and pay for.

N. The term "Schedule of Values" shall mean that schedule prepared and maintained by Contractor which allocates portions of the Contract Price to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.

O. The term "Schedule of Submittals" shall mean that schedule prepared and maintained by Contractor which identifies the required submittals and the time requirements necessary to support the scheduled performance of related construction activities.

P. The term "Shop Drawings" shall mean the written data, including drawings, diagrams, and schedules, developed by the Contractor or any subcontractor, manufacturer, supplier, or distributor to illustrate a particular portion of the Work.

Q. The terms "Statute," "Law," "Regulation," "Code," and "Ordinance," shall be deemed to include all revisions, amendments, and supplements in effect as of commencement of the Work, or subsequently enacted anytime during the progress of the Work.

R. The term "Subcontractor" means the person, partnership, corporation, joint venture or other business entity (including its employees, agents or others performing the Work on its behalf, or at its direction) having a contract with the Contractor for the performance of any portion of the Work.

S. The term "Substantial Completion" means the stage whereby the Work, or a designated portion thereof, is complete, operable and accessible in accordance with the Contract Documents so that the Village can fully occupy or use the Work or the designated portion for its intended purpose without interruptions, and for which only minor or inconsequential punch list items need to be completed. No portion of the Work shall be deemed to have reached Substantial Completion unless and until all regulatory authority approvals have been received and Substantial Completion has been approved by the Village.

T. The term "Village" or "Owner" shall mean the Village of Wilmette, an Illinois Municipal Corporation, its officers, directors, trustees, authorized representatives and employees.

U. The term "Water and Sewer Specifications" whenever used in this document shall be construed to mean the "Standard Specifications for Water and Sewer Main Construction in Illinois", current edition, available from the Associated General Contractors of Illinois or the Illinois Society of Professional Engineers.

V. The term "Road Specifications" whenever used in this document shall be construed to mean the "Standard Specifications for Road and Bridge Construction" and "Supplemental Specifications and Recurring Special Provisions", most recently adopted, as amended; the "Standard Specifications for Traffic Control Items"; and the latest edition of the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways" in effect; all issued by the State of Illinois, Department of Transportation.

W. The term "Work" means the scope of construction and services required by the Contract Documents, whether completed or partially completed, including but not limited to all labor, materials, equipment, services and other necessary items, provided or to be provided by the Contractor to perform and complete the Contractor's obligations in accordance with the Contract Documents safely and without injury to persons or damage to property and in an expeditious, orderly and workmanlike manner. The Work may or may not consist of the entire Project.

## **SECTION 2. PRELIMINARY MATTERS**

### **A. PRE-CONSTRUCTION MEETING**

A pre-construction meeting shall be held between representatives of the Village of Wilmette, Contractor, all major Subcontractors and any Consultants, Engineers, or Architects for the purpose of discussing the time for construction, methods, means and plan of operation, respective responsibilities and authority of the parties, safety procedures, procedures for handling shop drawings, progress estimates, requests for payment and other relevant issues.

### **B. WORKING HOURS**

All Work shall be performed between the hours of 7:00 AM and 7:00 PM, Monday through Friday, and between 9:00 AM and 6:00 PM on Saturday, except in the case of urgent necessity as determined by the Director of Engineering Services. No work shall be performed on New Year's Day, Memorial Day, the THIRD and FOURTH of July, Labor Day, Thanksgiving or Christmas Day.

## **SECTION 3. EXTENSION OF CONTRACT TIMES**

A. The Contractor may be granted an extension of time and/or relief from liquidated damages when delay or hindrance in completion of the Work is due to any preference, priority, or order duly issued by any governmental authority; or, unforeseeable causes beyond the control and without the fault or negligence of the Contractor, including but not limited to, acts of God, or of the public enemy, floods, epidemics, quarantine restrictions, strikes, and freight embargoes.

B. Such hindrances may entitle the Contractor to an extension of time sufficient to account for the detention if the Contractor provides notice, in writing, of the nature of the cause of such detention within ten (10) calendar days after the detention has occurred. Any claim for extension of time for strikes or lockouts shall be supported by a statement of facts concerning the strike, including but not limited to, the dates, the trade affected, and the reason for the strike, efforts to resolve the dispute, and efforts to minimize the impact of the strike on progress of the Work. Any claim for extension of time for delays in transportation or for failures of suppliers shall be supported by a written statement of facts showing that the delays are beyond the Contractor's control, including but not limited to, the Contractor's efforts to overcome such delays.

C. NO DAMAGE FOR DELAY. Extensions of time shall be the Contractor's sole remedy for any and all delays. No payment or compensation of any kind shall be made to the Contractor for damages because of delays, impacts, or other hindrances in the orderly progress of the Work from any cause in the progress of the Work, whether such hindrances or delays are avoidable or unavoidable. Contractor acknowledges that the Contract Amount includes and anticipates any and all delays whatsoever from any cause, whether such delays are avoidable or unavoidable. No payment, compensation, or adjustment in Contract Amount shall be made to Contractor by the Village for any costs or damages caused by any delay or hindrance, whether avoidable or unavoidable.

**SECTION 4. SUBMISSION OF SCHEDULES**

Within 10 days of the Effective Date of the Contract, Contractor shall provide to the Village for timely review a preliminary Progress Schedule, Schedule of Submittals and Schedule of Values. No claim for an extension of the Contract times will be considered if such claim is the result of the Contractor's failure to provide correct, accurate, complete and approvable submittals.

**SECTION 6. INSPECTIONS**

- A. The Village shall have the right to inspect, or to have inspected by its representative, any Work, material, component equipment, supplies, services, or completed Work specified herein before acceptance. Any of said items or Work not complying with the Contract Documents are subject to rejection. Any items or Work rejected shall be removed from the site and/or replaced at the sole expense of the Contractor. Contractor will make every effort and means available to facilitate the inspection of the Work. Any Work or material, which is deemed to be defective, must be rebuilt, replaced, or removed at the Contractor's own expense. Any omission to reject or condemn any Work or material at the time of its construction or arrival at the worksite shall not be construed to mean acceptance of the Work or material.
- B. Contractor shall not be relieved of its obligations to perform the Work in accordance with the Contract Documents either by the actions of the Village or other Village consultant in the administration of the Contract, or by tests, inspections or approvals required or performed by persons other than the Contractor.

**SECTION 7. ADDITIONAL WORK REQUIREMENTS****A. JOB SITE DAILY CLEANUP**

Contractor shall maintain a clean work site and at the end of each day shall make sure that all debris and scrap materials no longer needed for the construction are properly removed and disposed of.

**B. EQUIPMENT AND MATERIALS STAGING**

1. Contractor shall be responsible for the proper, safe and adequate storage of all materials and equipment. The Contractor shall not place any equipment or materials on the job site without prior approval by the Village. All staging locations for equipment and materials must be pre-approved by the Village. Contractor and subcontractors are responsible for the security of their own materials, tools and equipment at the site, and the Village shall not be liable for any loss or damage that may occur thereto.
2. Contractor shall not be entitled to payment or reimbursement for any off-site storage of materials or equipment unless such off-site storage was pre-approved in writing by the Village.

**C. WATER**

1. Contractor must pick-up a Village issued water meter and RPZ device at the Village Yard located at 711 Laramie Avenue (847-853-7500). The Village has a limited number of meters and RPZ devices and if none are available Contractor will be responsible for supplying its own meter and RPZ device; and,

2. A \$1,500 refundable deposit (cash, check, Visa, MC) and a meter loan permit are required before a Village meter and RPZ device will be issued. The permits are obtained through the Village of Wilmette Engineering Department at 1200 Wilmette Avenue (847-853-7660).

#### D. DELIVERY OF EQUIPMENT AND MATERIALS

All equipment and materials shipped to the Village must be shipped F.O.B. and delivered to a pre-designated location. Contractor shall coordinate delivery schedules in advance with the Village and must be present on site at the time of all deliveries. To the extent any materials or equipment will not be used immediately in the construction of the Work, the materials and equipment shall be stored in the location directed by the Village. No deliveries will be accepted on Saturday, Sunday, or holidays.

#### E. ANTI-IDLING POLICY

To improve air quality and reduce global warming, the Village requests that Contractor inform its employees, subcontractors, and material suppliers to limit engine idling. By making a conscious effort to turn engines off whenever possible, the detrimental consequences to the environment caused by vehicle emissions can be minimized.

### **SECTION 8. PREVENTION OF INJURY OR DAMAGE**

#### A. SAFETY OF PERSONS

1. Contractor shall be solely and completely in charge of, and responsible for, maintaining the site and performing the Work, so as to prevent accidents or injury to persons performing the Work, and to any person on, about, or adjacent to the site where the Work is being performed. This duty exists, and shall apply, continuously and shall not be limited to normal working hours. Contractor shall maintain and implement, and ensure that all Subcontractors maintain and implement, an appropriate safety/loss prevention program for the protection of employees and persons nearby. Contractor is fully responsible and assumes liability for the failure of Subcontractors to comply with the requirements of this Section.
2. Contractor shall comply with all applicable federal, state, and local safety laws, regulations and codes, including, but not limited to, those safety precautions as to construction involving (or in the vicinity of) overhead and/or underground electrical facilities and utilities. Contractor shall be responsible for any and all applicable employee safety training/education, as well as accident record maintenance.

#### B. PROTECTION OF PROPERTY

Contractor shall adequately protect the site, adjoining properties and all Work from damage or loss arising in connection with, or during the performance of, the Work. Contractor shall pay for any such damage, injury or loss caused by its agents, employees or subcontractors or from the action of the elements. Contractor will be required, without cost to the Village, to remove and replace all portions of the damaged Work, and to repair or replace all damage caused to Village property and adjoining properties. Contractor will take sufficient precautions, and ensure that all Subcontractors take sufficient precautions, to prevent damage to property, materials, supplies, and equipment, and avoid interruptions in the performance of the Work. Contractor is fully responsible and assumes liability for the failure of Subcontractors to comply with the requirements herein.

### C. REPAIR OF DAMAGE

Upon termination of the Contract, or upon completion of the Work, Contractor shall repair or replace, at no expense to the Village, any damage to existing buildings, paving, landscaping, streets, drives, utilities, right-of-ways, or other Village property arising during the performance of the Work or incidental thereto caused by Contractor, any Subcontractors, material suppliers, or others performing work on behalf, or at the request, of Contractor. Such repair or replacement shall be performed by craftsmen skilled and experienced and shall result in conditions that existed as of the Effective Date of the Contract.

## **SECTION 9. INTERPRETATION OF CONTRACT DOCUMENTS**

The Village shall in all cases determine the amount or quantity of the several kinds of Work, which are to be paid for under this Contract, and shall decide all questions which may arise relative to the execution of the Contract on the part of the Contractor, and all estimates and decisions shall be final and conclusive. The Village shall have the right to make alterations in the lines, grades, plans, forms, or dimensions of the work herein contemplated either before or after the commencement of the Work. If such alterations diminish the quantity of the Work to be done, they shall not constitute a claim for damage or for anticipated profits on the Work dispensed with, or if they increase the amount of Work, such increase shall be paid according to the quantity actually done and at the price or prices stipulated for such Work in the Contract. The Village hereby reserves the right to approve as an equal, or to reject as not being an equal, any article the Contractor proposes to furnish pursuant to the Contract Documents.

## **SECTION 10. CONTRACT CHANGES**

### A. CHANGES IN WORK

1. The Village reserves the right to make changes in the scope of the Contract or issue instructions requiring additional Work or direct the deletion of certain Work. Any such changes by the Village shall not invalidate the Contract or relieve the Contractor of any obligations under the Contract Documents. Changes to the Work shall be authorized in writing and executed by the Parties by means of a Change Order.
2. A Change Order for Work is not necessary (and Contractor shall not be entitled to additional compensation) when the Work is reasonably inferable as within the Contract Documents, or, when the Work was made necessary as a result of an error or omission of the Contractor or any subcontractor.
3. Contractor shall not be entitled to an adjustment to the Contract Amount or Contract Time for any work performed:
  - a. outside the scope of the Contract Documents and for which no prior written authorization by the Village was obtained;
  - b. which exceeds the Contract Amount or other agreed upon pricing and for which no Change Order was executed ; or,
  - c. relating to differing site conditions that require prior written notice before proceeding (as further provided herein below).

**B. CHANGE ORDERS**

1. Any adjustment to the Contract Amount or Contract Time shall be made at the time of ordering a change in the Work. The cost or credit resulting from a change in Work shall be determined in one or more of the following ways:
  - a. By unit prices named in the Contract or additional unit prices subsequently agreed upon (no additional amounts for overhead and profit shall be allowed).
  - b. By an amount mutually agreed to by Contractor and the Village as a fixed or percentage fee.
  - c. By agreement on a lump sum proposal submitted by Contractor. Lump sum proposals shall include a detailed cost breakdown for each component of Work indicating both labor and material costs. In addition, there may be added an amount agreed upon, but not to exceed ten percent (10%) of the actual cost, for overhead and profit.
2. If none of the above methods are mutually agreed upon, a change may be made by unilateral determination of the Village based upon the reasonable costs or savings attributable to the change, including a reasonable allowance for overhead and profit, not to exceed ten percent (10%). If this method is utilized, the Contractor shall promptly proceed with the Work involved in the change, upon receipt of a written order by the Village.
  - a. In such case, Contractor shall keep and present an itemized accounting of all materials used, equipment, the cost of labor (including social security, old age and unemployment insurance, fringe benefits to which the employee is entitled, and Worker's compensation insurance), and the fair rental cost of all machinery used for the extra Work for the period of such use. If the extra Work requires the use of machinery not already on the Project site, or to be otherwise used for the Work, then the cost of transportation (up to a total maximum of one hundred (100) miles) of such machinery to and from the Project site shall be added to the fair rental value.
  - b. Contractor shall not include in the cost of the extra Work any cost or rental of small tools, or any portion of the time of the Contractor or the superintendent, or any allowance for the use of capital, insurance or bond premium or any actual or anticipated profit, or job or office overhead not previously mentioned. These items are considered as being covered under the added amount for general overhead.
3. Pursuant to the Public Works Contract Change Order Act (50 ILCS 525/5) if a Change Order authorizes or necessitates an increase in the original Contract Amount (or price of a subcontract thereunder) by 50% or more, then the portion of the contract covered by the change must be resubmitted for bidding in the same manner by which the original contract was bid.
4. Pursuant to the Illinois Criminal Code (720 ILCS 5/33E-9), a Change Order or series of Change Orders which authorize or necessitate a net increase or decrease in the cost of the contract by a total of \$10,000 or more, or the time of completion by more than 30 days requires a written determination supporting the appropriateness of the change.

**SECTION 12. CONCEALED CONDITIONS**

- A. Contract Drawings showing the approximate location of existing and new utility lines, if any, have been identified and located as accurately as possible using readily available information. However, the Contractor is responsible for verifying the accuracy of all locations. If as a result of such verification, utilities require relocation or rerouting Contractor shall notify the Village and cooperate with the Village to make the required adjustments.
- B. If utility service which is shown on the Drawings is interrupted for any reason, Contractor will work continuously to restore such service to the satisfaction of the Village at no additional cost to the Village. Should Contractor fail to proceed expeditiously with appropriate repairs, the Village shall have the right to have any needed repairs completed and the cost of such repairs shall be deducted from any amount due or to become due to Contractor.
- C. If utility service, which is not shown or which is misidentified on the Drawings, the existence or proper location of which could have been discovered by careful examination and investigation of the Project site by Contractor, is interrupted for any reason, the entire cost to restore service to the satisfaction of the Village shall be paid by the Contractor.
- D. Contractor shall promptly, but in no case more than ten (10) days from discovery and before the conditions are disturbed, notify the Village in writing of:
  - A. Subsurface or latent physical conditions or any condition encountered at the site which differ materially from those indicated in the Contract Documents and which were not known by Contractor or could not have been discovered by careful examination and investigation of the site of the proposed Work;
  - B. Unknown and unexpected physical conditions at the site, of an unusual nature, differing materially from those ordinarily encountered in the locale or generally recognized as inherent in the Work provided for in the Contract Documents.
  - C. Concealed or unknown conditions in an existing structure which are at variance with the conditions indicated by the Contract Documents, which are of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in the Work and which were not known by the Contractor and could not have been discovered by careful examination and investigation of the Project site.
  - D. If the Village determines that changed conditions do not exist or are not materially different and no adjustment in the Contract Amount or time is warranted, the Contractor shall continue performance of the Work. No claim by the Contractor for a change in the Contract Amount or Times shall be allowed unless the required written notice is given and the Village is given adequate opportunity to investigate the conditions encountered prior to any disturbance thereof.

**SECTION 13. SUSPENSION AND TERMINATION****A. SUSPENSION OF WORK**

The Village may, at any time, by written notice to the Contractor require the Contractor to stop all, or any part, of the Work required by the Contract Documents. Upon receipt of such a notice, the Contractor shall immediately comply with its terms and take all steps to minimize the occurrence of costs allocable to the Work covered by the notice. Contractor shall, upon receipt of notice of suspension, identify in writing all Work that must be completed prior to suspension of the Work, including all Work associated with suspension that must be performed. With respect to Work so identified by Contractor and approved by the Village, the Village will pay for the necessary and reasonable costs associated with that Work. Contractor shall not be entitled to any claim for lost profits due to the suspension of the Work by the Village.

**B. TERMINATION OF CONTRACT**

1. The Village reserves the right to terminate the whole or any part of this Contract, without cause, upon ten (10) calendar day's written notice to the Contractor.
2. The Village reserves the right to terminate the whole or any part of this Contract, upon ten (10) calendar day's written notice to the Contractor in the event of default by the Contractor.
  - a. Default is defined as the failure by Contractor to correct defective Work as required; the persistent failure to carry out the Work in accordance with the Contract Documents; or, the failure to make sufficient progress to endanger timely completion of the Work.
  - b. Contractor shall also be deemed in default if the Contractor:
    - i. is adjudged bankrupt or insolvent, or makes a general assignment for the benefit of creditors or if a trustee or receiver is appointed for the Contractor or for any of the Contractor's property on account of the Contractor's insolvency, and the Contractor or its successor in interest does not provide adequate assurance of future performance in accordance with the Contract within 10 days of receipt of a request for assurance from the Village;
    - ii. repeatedly fails to supply sufficient skilled workmen or suitable materials or equipment;
    - iii. repeatedly fails to make prompt payments to Subcontractors or suppliers at any tier, or for labor, materials or equipment;
    - iv. disregards laws, ordinances, rules, codes, regulations, orders or similar requirements of any public entity having jurisdiction; or
    - v. otherwise violates any material term of the Contract Documents.
  - c. If Contractor shall assign this Contract or abandon the Work or shall neglect or refuse to comply with the instructions of the Village relative thereto or shall fail in any manner to comply with the specifications or stipulations herein contained or if at any time the Village shall be of the opinion that the Work is unnecessarily delayed and will not be finished within the prescribed time, or that unnecessary inconvenience is being imposed upon the public or unnecessary expense is being incurred by the Village for inspection and supervision, the Village shall notify the Contractor, in writing, to that effect. If the Contractor does not, within five (5) calendar days thereafter, take such measures as will in the judgment of the Village

ensure the satisfactory completion of the Work within the prescribed time or prevent unnecessary inconvenience to the public or prevent unnecessary expense to the Village, then the Village may take such actions as deemed necessary, at the cost to the Contractor, to correct such delay or, the Village may declare the Contractor to be in default and terminate the Contract.

- d. In the event of default and termination, the Village shall have the right, without further notice to Contractor, to invoke the Performance and Payment Bonds
- C. Upon receipt of notice of suspension, Contractor shall identify in writing all Work that must be completed prior to termination of the Work, including all Work associated with termination that must be performed. Only with respect to Work so identified by Contractor and pre-approved by the Village, the Village will pay for the necessary and reasonable costs associated with that Work. Contractor shall not be entitled to any claim for lost profits due to the termination of the Work by the Village.

#### **SECTION 14. CORRECTION OF WORK**

- A. Upon receipt of notice, Contractor shall promptly remove from the site and replace any material or correct any defective Work or Work that fails to conform to the requirements of the Contract Documents, whether completed or not and whether observed before or after Substantial or Final Completion. Contractor shall pay all costs of correcting such Work or material including the cost of additional professional services necessary, and the cost of repairing or replacing all other Work damaged by such removal or replacement.
- B. If within one year after the date of Substantial Completion (or such longer period of time prescribed by any special guarantee or warranty) any Work is found to be defective, Contractor shall promptly, at its sole cost and expense and without cost to the Village, repair, replace or correct such defective Work along with any damage to other Work resulting therefrom.
- C. Contractor's obligations under this Paragraph are in addition to any other obligation or guarantee or warranty contained in the Contract Documents and shall survive the termination of the Contract. The terms of this Section are not in lieu of, and shall not be construed as a waiver of, any applicable statute of limitation or repose.
- D. If the Contractor fails to correct defective Work within a reasonable time, the Village may perform the necessary corrections. A Change Order will be then be issued reflecting an equitable deduction from the Contract Amount for the costs of correction incurred by the Village. The costs of correction will be deducted from payments due to the Contractor or, if no further payments are due to Contractor, then the Contractor's surety will be responsible for said payment.

**SECTION 15. DOCUMENT SUBMITTALS****A. OWNERSHIP**

All drawings, specifications, reports, and any other project documents prepared by the Contractor in connection with any or all of the services furnished hereunder shall be delivered to the Village for the expressed use by the Village. All documents, memoranda, drawings, designs, specifications, calculations, computer programs, computer discs, records, notes, samples and information recorded in any tangible or computer form generated or prepared by or at the direction of Contractor shall be the exclusive property of the Village. Contractor shall provide such work product to Village immediately upon request or termination of this contract for any cause, and such work product shall be of a quality so as to assure total reproducibility of the documents delivered. In particular, the Village may request, at no additional cost, the delivery of additional sets of drawings or documents if the Contractor fails to deliver a fully reproducible document. Contractor shall not publish, in any technical articles, publications or otherwise, information obtained from performing this Contract on behalf of the Village, without the prior written consent of the Village. The provisions of this Section shall survive the expiration, conclusion and termination of this Contract.

**B. DELIVERY OF DOCUMENTS**

Contractor shall provide all deliverable products to the Village for approval and dissemination. Five (5) copies of final studies and reports and/or ten (10) copies of any final plans and specifications shall be submitted. A deliverable product shall be required in the following electronic formats in addition to a printed copy: all reports and related information shall be compatible with "*Microsoft Word 2016*," by Microsoft Corporation; all spreadsheets and related information shall be compatible with "*Microsoft Excel 2016*" by Microsoft Corporation; and all CADD related information shall be compatible with "*AutoCAD 2016*" by Autodesk Corporation Except as otherwise agreed, no other formats are acceptable.

**SECTION 16. WARRANTY**

- A. Contractor warrants to the Village that all material and equipment furnished under this Contract shall be new and of the most suitable grade for the purpose intended and that all Work shall be of good quality, free from faults and defects and in conformance with the Contract Documents. Prior to Final Completion, Contractor shall deliver to the Village all warranties required under the Contract Documents, or to which Contractor is entitled from manufacturers, suppliers, and Subcontractors. All warranties for products and materials incorporated into the Work shall begin on the date of Substantial Completion.
- B. Neither the final payment nor partial or entire use or occupancy of the site by the Village shall constitute an acceptance of Work not done in accordance with Contract Documents or relieve the Contractor or its sureties of liability with respect to any warranties or responsibilities for faulty or defective materials and workmanship. Contractor or its sureties shall remedy any defects in Work and any resulting damage to Work at its own expense. Contractor shall be liable for correction of all damage resulting from defective Work. If Contractor fails to remedy any defects or damage, the Village may correct the defective Work or repair damages and the cost and expense incurred shall be paid by or be recoverable from the Contractor or its surety.
- C. Contractor warrants that the Work shall be done in a workmanlike manner in strict accordance with the Contract Documents and guarantees that the labor, material, and equipment will be free

of defects for a period of one (1) year from the date of Substantial Completion unless otherwise provided.

- D. Contractor warrants that no materials or supplies for the Work purchased by Contractor or any Subcontractor are subject to any chattel mortgage or other condition or agreement by which an interest is retained by the seller. Contractor further warrants that he/she has good title to all materials and supplies used in the performance of the Work, and any such materials and supplies are free from all liens, claims or encumbrances. Contractor agrees to indemnify and save the Village harmless from all claims and costs incurred with respect to the lawful demands of Subcontractors, laborers, workmen, mechanics and suppliers of machinery, parts, equipment, tools, and materials arising from Contractor's breach of this Section.

## **SECTION 17. COMPLIANCE WITH LAWS**

### **A. OSHA STANDARDS**

Contractor shall read and comply with all applicable Occupational Safety and Health Act (OSHA) standards. Special attention is directed to the Congressional Federal Register, Volume 58, Number 9, Thursday, January 14, 1993, Part 1910 (Permit Required Confined Spaces for General Industry.) Equipment supplied to the Village must comply with all requirements and standards as specified by OSHA. Items not meeting any OSHA specifications will be refused.

### **B. SUBSTANCE ABUSE PREVENTION ON PUBLIC WORKS PROJECTS ACT**

1. Prior to commencing any Work, Contractor must demonstrate compliance with the requirements of the Substance Abuse Prevention on Public Works Projects Act (820 ILCS 265/1 et. seq.). Among other things, the Act provides that before commencing work on a public works project, an employer shall have in place a written program for the prevention of substance abuse among its employees which meets or exceeds the program requirements of the Act including, but not limited to, such matters as pre-hire, random, reasonable suspicion and post-accident drug and alcohol testing of employees. The employer's program must be filed with the public body engaged in the construction of the public works and must be made available to the general public.
2. Pursuant to the Substance Abuse Prevention on Public Works Projects Act, an employee may not use, possess, attempt to possess, distribute, deliver, or be under the influence of cannabis or a controlled substance, or use or be under the influence of alcohol, while performing work on a project covered by the Act. An employer may not permit an employee who violates the Act, who tests positive for the presence of a drug, or who refuses to submit to drug or alcohol testing as required under the employer's prevention program to perform work on a public works project until the employee meets certain specified conditions set forth in the Act. An employer shall remove an employee from work on a public works project, and prevent further access to the work, if the employee violates the Act, tests positive for the presence of a drug or alcohol, refuses to submit to drug or alcohol testing as required under the employer's prevention program, or, if there is a reasonable suspicion that the employee is under the influence of a drug or alcohol.
3. Contractor is responsible for reviewing the Substance Abuse Prevention on Public Works Projects Act (820 ILCS 265/1 et. seq.) to ensure compliance its requirements.

**C. OTHER LAWS AND REGULATIONS**

1. Contractor shall comply with all applicable laws, regulations and rules promulgated by any federal, state, local, or other governmental authority or regulatory body pertaining to all aspects of the Work, now in effect, or which may become in effect during the performance of the Work. The scope of the laws, regulations, and rules referred to in this paragraph includes, but is in no way limited to, the Illinois Human Rights Act, Illinois Equal Pay Act of 2003, Occupational Safety & Health Act along with the standards and regulations promulgated pursuant thereto (including but not limited to those safety requirements involving work on elevated platforms), all forms of traffic regulations, public utility, Interstate and Intrastate Commerce Commission regulations, Workers' Compensation Laws, Public Construction Bond Act, Prevailing Wage Laws, Smoke Free Illinois Act; Public Works Preference Act, Employment of Illinois Workers on Public Works Act, USA Security Act, federal Social Security Act (and any of its titles), and any other law, rule or regulation of the Illinois Department of Labor, Department of Transportation, Illinois Environmental Protection Act, Illinois Department of Human Rights, Human Rights Commission, EEOC, Metropolitan Water Reclamation District of Greater Chicago and the Village of Wilmette.

**ATTACHMENT THREE  
SPECIFICATIONS FOR CONSTRUCTION &  
SPECIAL SUPPLEMENTAL SPECIFICATIONS**

**SECTION 1. STANDARD SPECIFICATIONS**

The Standard Specifications governing the performance of the Work shall be deemed to include all revisions, amendments, and supplements in effect as of commencement of the Work, or subsequently enacted anytime during the progress of the Work. The Standard Specifications include the following:

1. "Standard Specifications for Road and Bridge Construction", adopted April 1, 2016, published by the Illinois Department of Transportation (IDOT).
2. "Bureau of Local Roads and Streets, Special Provisions and Specifications", published by IDOT.
3. "Interim Special Provisions", adopted subsequent to issuance of Supplemental Specifications and Recurring Special Provisions.
4. "Manual on Uniform Traffic Control Devices for Streets and Highways", adopted by IDOT.
5. Manual of Procedures for the Administration of the MWRD Sewer Permit Ordinance
6. Standard Specifications for Water and Sewer Sixth Edition, 2009
7. The Seventh Edition of the "Standard Specifications for Water and Sewer Main Construction in Illinois", 2014

**SECTION 2. SPECIAL SUPPLEMENTS SPECIFICATIONS**

See Special Supplemental Specifications section starting on the following page.

**SECTION 3. ATTACHMENTS**

Attachment Four: Sewer Televising Reports

Attachment Five: Soil Borings

Attachment Six: Plan Set

## **SPECIAL SUPPLEMENTAL SPECIFICATIONS**

### **CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD), PUBLIC ACT 96-1416**

Regarding the Illinois Environmental Protection Agency (IEPA) Clean Construction Demolition Debris (CCDD) uncontaminated soil certification requirements, the Village of Wilmette will provide the required IEPA CCDD Uncontaminated Soil Certification Form LPC-662 to the dump site or to the Contractor for their use. This shall only be used for The Village of Wilmette Project #18145 (2018 Sewer Repair and Valve Installation Program).

The CCDD 662 and 663 form will cover all sewer repair locations, unless otherwise indicated. Valve replacements are covered under the CCDD 662 and 663, unless otherwise indicated.

The removal and disposal of excavated material for the valve listed below, and line stops will be paid for as REMOVAL AND DISPOSAL OF EXCAVATED MATERIAL, SPECIAL.

### **STOCKPILE OF BRICK PAVERS**

The Contractor shall clean, palletize and transport any brick pavers removed, but not used in the project, to the Village's Public Works Yard located at 711 Laramie, Wilmette, IL 60091.

Basis of Payment: This work will not be paid for separately but shall be considered as included with the Contract and no extra compensation will be allowed.

### **STRUCTURE PROTECTION**

Shields, covers or other suitable equipment shall be provided by the Contractor to protect all structures during placement of prime coat and surface course. All frames and lids shall be clean and free from material after placement of the surface course.

Basis of Payment: This work will not be paid for separately but shall be considered as included with the Contract and no extra compensation will be allowed.

### **SAW CUTTING**

The Contractor shall full-depth saw cut for the removal of existing curb, sidewalk, all structure work, and for all pavement patches. The concrete saw shall be equipped with a diamond blade of sufficient size to saw pavements full-depth and be capable of accurately maintaining cutting depth. All saw cuts shall be parallel or perpendicular to the curb & gutter, edge of sidewalk, or the edge of pavement, with straight, clean, edges, to the satisfaction of the Engineer. The slurry resulting from the saw cutting work shall be washed away using water to prevent tracking by vehicles or pedestrians to the satisfaction of the Engineer. This item shall be included with curb & gutter, sidewalk, structure work, and pavement patching.

### **CONCRETE BREAKERS**

When removing pavement, curb and gutter, shoulder, and/or any other structures, the use of hydraulic impact/air hammers must be used to initiate pavement openings. The use of excavator

buckets to strike the pavement or any other means which may damage underground public or private utilities is strictly prohibited.

### **SIGN REPLACEMENT**

The Contractor shall remove and replace all street signs located in or near the construction zone as directed by the Engineer. The Contractor shall be responsible for replacing at his expense any signs damaged or lost during the course of construction and the operation of removing and replacing any signs. The Contractor must do a sign inventory for all signs removed and replaced at the beginning of the project. Removal and replacement of signs shall conform to the Manual on Uniform Traffic Control Devices, latest edition.

Basis of Payment: The removal, relocation, or replacement of all existing signs within the construction limits shall not be paid for separately but shall be included in the contract.

### **JOB SITE - DAILY CLEANUP**

In addition to the requirements of Article 107.15 of the Standard Specifications, the Specifications shall be modified to include the following:

The Contractor shall maintain a clean work area at the end of each day. All materials not needed for the construction process shall be removed from the work areas. This includes, but is not limited to: old vaults, piping, old cables, removed pavement, wood scrapes, old curb & gutter, paint cans, litter, broken tree branches, etc. Failure to maintain a clean work area at the end of each day and to the satisfaction of the Engineer will result in a penalty of \$500.00 per incident.

### **VALVE & HYDRANT OPERATION**

Under no condition shall the Contractor operate any Village valves or hydrants. The Contractor shall notify the Engineer at least 48 hours prior to beginning any construction requiring water main shutdowns. The Contractor shall coordinate all water main shut downs with the Engineer. The Water & Sewer Department will be responsible for all main shut downs.

### **EQUIPMENT AND MATERIALS STAGING**

In addition to the requirements of Article 107.16 of the Standard Specifications, the Specifications shall be modified to include the following:

The Contractor shall not place any equipment or materials on the job site without prior approval by the Engineer. All staging locations for equipment and materials must be pre-approved by the Engineer.

### **PORTABLE TOILET**

The Contractor shall furnish PORTABLE TOILET(S) for the duration of the contract. The location of the facility shall be approved by the VILLAGE. The Contractor will be responsible for maintaining the facility.

Basis of Payment: This work will not be paid for separately but shall be considered as included with the Contract and no extra compensation will be allowed.

### **107.09 PUBLIC CONVENIENCE AND SAFETY**

In addition to the requirements of Article 107.09 of the Standard Specifications, the Specifications shall be modified to include the following:

The Contractor shall maintain entrances and side roads along the proposed improvement; interference with traffic movements and inconvenience to owners of abutting private and public property shall be kept to a minimum. Any delays or inconveniences caused the Contractor by complying with these requirements shall be considered as included with the Contract, and no additional compensation will be allowed. It is understood that the streets involved may have to be closed for short periods of time during excavation and placement of base course. Residents who have PCC driveway aprons or proposed curb and gutter in front of their driveways will not have access until the concrete has cured. The Contractor must give written notice to residents who will not have access to their driveways at least 48 hours in advance.

Construction signs referring to temporary lane closures during work hours shall be removed or covered during the non-work hours. One excavation along the edge of pavement or other obstructions within 15 feet of the edge of pavement shall be barricaded during non-work hours.

The Contractor shall plan his work so that there will be no open holes in the pavement overnight and that all barricades will be removed from the pavement during non-work hours. If steel plates are used, they must be pinned at each corner with asphalt ramps placed along the edges.

During all construction operations, the Contractor will be required to provide, erect and maintain proper signage and barricades plus provide flagmen as necessary for safe traffic control. IDOT Standards 701501, 701502, 701606 and 701701 are applicable and included by reference.

All provisions relating to traffic control, signage, barricades and the use of flagmen shall be subject to the approval and the direction of the Engineer.

To ensure that safe and efficient traffic control and protection is provided at all times, the Contractor shall provide to the Owner and the Engineer the telephone number of his employee or agent who is responsible for traffic control and protection and shall confirm that this representative will be available at any time, day or night, to correct, add to or modify any traffic control devices or provisions to assure safe and efficient traffic operations.

The Contractor will not be allowed to close any street to through travel without the prior approval of the Engineer. The Contractor will be required to provide all detour signs, barricades, traffic cones, flagmen and other appurtenances as the Engineer deems necessary to guarantee the safety of motorists and pedestrians during construction.

Cross streets will be closed as necessary with the Contractor supplying proper barricades and detour signing. The Contractor shall report all necessary closures to the Village of Wilmette Engineering Department, who will then notify the police and fire department.

The Contractor shall at the end of every working day leave no open holes, broken pavement, open trenches over three (3) inches deep and four (4) inches wide or other hazards adjacent to the roadway or within the closed lane of the roadway. If open holes, broken pavement, trenches over three (3) inches in depth and four (4) inches wide or other hazards are present adjacent to the roadway or within the closed lane of a roadway, the Contractor shall furnish and install an approved barrier to prevent access to the hazard.

Failure to open roads per the holiday schedule in Article 107.09 will subject the Contractor to a \$2,000 penalty.

Basis of Payment: This work will not be paid for separately but shall be considered as included with the Contract and no extra compensation will be allowed.

### **107.20 PROTECTION AND RESTORATION OF PROPERTY**

In addition to the requirements of Article 107.20 of the Standard Specifications, the Specifications shall be modified to include the following:

Existing drainage facilities shall remain in use during the period of construction, unless otherwise noted in the Contract.

The Contractor shall take all necessary precautions when working near or above existing sewers in order to protect these pipes during construction from any damage resulting from his operations. Existing sewers damaged because of noncompliance with this provision shall be replaced as directed by the Engineer, in accordance with Section 550 of the Standard Specifications and at the Contractor's own expense, and no extra compensation will be allowed.

During construction, if the Contractor encounters or otherwise becomes aware of any sewers, underdrains or field drains within the right of way other than those shown on the plans; he shall so inform the Engineer who shall direct the work necessary to maintain or replace the facilities in service and protect them from damage during construction if maintained. Existing facilities to be maintained that are damaged because of noncompliance with this provision shall be replaced at the Contractor's own expense. Should the Engineer have directed the replacement of the facility, the necessary work and payment shall be done in accordance with Section 550 or 601 and Article 104.02 respectively of the Standard Specifications.

Basis of Payment: This work will not be paid for separately but shall be considered as included with the Contract and no extra compensation will be allowed.

### **TRENCH BACKFILL, SPECIAL**

This work shall consist of furnishing and transporting aggregate for use as backfilling material for all trenches made in the sub-grade of the proposed improvement, and all trenches outside of the sub-grade where the inner edge of the trench is closer than two (2) feet to the edge of the proposed pavement, stabilized shoulder, curb or sidewalk. This work shall be done in accordance with Section 208 of the Standard Specifications, except as modified herein. Revise Article 1004.05 (a) of the Standard Specifications to read:

Material used for trench backfill shall be of CA-6 gradation and shall meet the requirements of Article

1004.05 of the Standard Specifications. The trench backfill shall be compacted in accordance with Method 1 described in Article 550.07 of the Standard Specifications. Method 2 (ponding) and Method 3 (jetting) will not be allowed.

Revise Article 1004.05 (a) of the Standard Specifications to read:

Description. The coarse aggregate shall be gravel, crushed gravel, crushed stone, or crushed concrete.

Revise Article 1004.05 (c) of the Standard Specifications to read:

Gradation. The coarse aggregate gradation shall be as follows. Pipe Bedding and Backfill for New Drainage:

Structures and Reconstructions.....	CA 7 or 11
Trench Backfill.....	CA 6

CA-7 or 11 shall be used for pipe bedding and must also be placed and compacted one foot above the new pipe. The remainder of the trench shall use properly compacted CA-6 granular material or such other material as may be required by the Engineer.

Basis of Payment: Trench Backfill shall be measured in accordance with Article 208.03 of the Standard Specifications. This work will be paid for at the Contract unit price per cubic yard for TRENCH BACKFILL, SPECIAL.

**CONTROLLED LOW-STRENGTH MATERIAL (CLSM), SPECIAL**

All work shall comply with Section 1019 Standard Specifications and Illinois Highway, except as modified herein.

Flowable fill shall not be permitted:

- Within three feet either side of a water main
- Within three feet either side of water service
- Outside the roadway

Approved backfill within this area shall be CA-6.

Basis of Payment: CONTROLLED LOW-STRENGTH MATERIAL shall be measured in accordance with Section 1019 of the Standard Specifications. This work will be paid for at the Contract unit price per cubic yard for CONTROLLED LOW-STRENGTH MATERIAL (CLSM), SPECIAL

**COMBINATION CONCRETE CURB AND GUTTER R & R, SPECIAL**

All work shall comply with Section 606 Standard Specifications and Illinois Highway Standard 606001, except as modified herein.

The Contractor shall machine-saw full-depth, a clean joint at the gutter face along all sections of curb and gutter removal and a perpendicular joint between that portion of the curb, gutter or curb and gutter to be removed and that which is to remain in place for non-monolithic streets. On streets which are monolithic concrete pavement and curb, the pavement shall be saw cut six (6) inch from the new

gutter face, or eighteen (18) inch from back of curb, to allow space for framing of new curb and gutter.

When a structure exists within the section of curb to be replaced, doweled expansion joints are to be placed five (5) feet on each side of the structure. The cost of the expansion joint and dowels shall be included with this pay item.

The Contractor will be prohibited from using a pavement breaker or other highly destructive means as defined by the Engineer for removing the curb and gutter. All material excavated under this item shall be immediately loaded and hauled away and shall not be stored in the street or parkway area. If the Contractor removes or damages the existing curb, gutter or curb and gutter outside the limits designated by the Engineer for removal and replacement, Contractor will be required to remove and replace that portion at his own expense to the satisfaction of the Engineer. New curb will consist of B-4.12, B-6.12 and B-6.18 to be determined by the Engineer.

New curb shall be placed within 72 hours of removing the existing curb and gutter. Failure by the Contractor to place the new curb within this time frame shall be cause for the Engineer to stop work on the project until the curb and gutter is placed.

Wood form boards must be minimum 2 x 10 for the front of the curb and minimum 2 x12 or double 2 x 6 for the back of the curb. All replacement curb shall have a minimum gutter flag thickness of nine (9) inches or meet existing thickness, whichever is greater. The use of metal forms will be permitted as a back form only for sections of curb less than ten feet long and if such forms are a minimum of twelve (12) inches deep.

Prior to placing new curb and gutter section, the Contractor will excavate for placement of four (4) inch of compacted grade CA-6 stone base. Compacted stone base shall be included with the price of the curb and gutter. Any void space between the existing pavement and the new gutter flag shall be filled a concrete wedge with Class SI P.C.C. up to three (3) inches from top of flag. The void space shall be clean and free of construction debris and loose stone. Cost of the P.C.C wedge shall be included with the price of the curb and gutter.

Basis of Payment: Saw cutting will be included with the contract unit price for all COMBINATION CONCRETE CURB AND GUTTER R & R, SPECIAL work, which price shall be payment in full for furnishing all materials, labor and equipment necessary to complete the work as herein specified and to the satisfaction of the Engineer.

#### **SIDEWALK R & R 5" AND 6", SPECIAL**

The Contractor shall machine-saw a perpendicular clean joint between that portion of the sidewalk to be removed and that which is to remain in place. If the Contractor removes or damages the existing sidewalk outside the limits designated by the Engineer for removal and replacement, he will be required to remove and replace that portion at his own expense to the satisfaction of the Engineer. In addition, the Contractor shall be responsible to provide personnel to protect his work from third party damage. Should any of the new work be damaged, it shall be removed and replaced at the Contractor's expense. The Contractor shall schedule his work so that the concrete placed, takes its initial set during daylight hours. Claims of darkness shall not be reason to relieve the Contractor from responsibility.

If unsuitable material is present at the proposed subgrade, the unsuitable material shall be removed

to a minimum of five (5) inches below the proposed subgrade and replaced with approved and properly compacted CA-6 crushed stone or crushed concrete.

Where sidewalk has been removed, the area shall be properly protected with lighted barricades. Areas less than 25 square feet shall require one barricade. Areas larger than 25 square feet shall have barricades located at the end of existing sidewalks and spaced within the area where sidewalk has been removed.

The thickness of the new sidewalk shall be a minimum of five (5) inches or equal to the thickness of the existing sidewalk whichever is greater. Sidewalks within the limits of existing or proposed driveways shall have a minimum thickness of six (6) inches. Wood form boards must be minimum 2x6 for five (5) and six (6) inch sidewalk. The use of metal forms will be permitted if such forms meet the same depth criteria outlined above and the section of sidewalk is less than ten feet in length.

All material excavated under this item shall be immediately loaded and hauled away and shall not be stored in the street or parkway area.

The areas adjacent to sidewalk work shall be backfilled with appropriate backfill and four (4) inch of topsoil within five working days of concrete placement. Barricades shall remain in place until all grading has been completed and the adjacent area no longer poses a hazard to pedestrians.

Basis of Payment: Saw cutting will be included with the contract unit price for all PCC SIDEWALK, 5" & 6", R & R, SPECIAL, which price shall will be measured and paid for at the contract unit price per square yard for furnishing all materials, labor and equipment necessary to complete the work as herein specified and to the satisfaction of the Engineer.

#### **PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6", SPECIAL**

This work shall consist of the construction of new P.C.C. driveway pavement at locations shown on the plans, or as directed by the Engineer, in accordance with Sections 301, 351 and 423 of the STANDARD SPECIFICATIONS, the details shown on the plans as directed by the Engineer.

The Contractor shall place embankment or excavate in accordance with Sections 202 and 205 of the STANDARD SPECIFICATIONS in order to achieve the finished grades shown on the plans.

The proposed driveway pavement will consist of:

6" Portland Cement Concrete and 4" of Aggregate Base Course, Type B

Aggregate Base Course will not be paid for separately but shall be considered part of this item.

Basis of Payment: This work will be measured and paid for at the contract unit price per square yard for PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6", SPECIAL, which price shall be payment in full for constructing this item as specified, including all saw cutting, additional excavation, removal and disposal of the existing concrete driveway including the aggregate base course and including all materials, labor and equipment. The payment area shall be the final installed width of the driveway area where work was performed.

**HMA DRIVEWAY REMOVAL AND REPLACEMENT, 3", SPECIAL**

The Contractor will remove all temporary materials; the Contractor will place any additional compacted CA-6 material, to bring the sub-grade to proper elevation. The bituminous driveway pavement shall be N30 Mix-D, meeting the requirements in Section 406 of the Standard Specifications. The surface shall be installed in two lifts with each lift not less than 1.5-inches.

Basis of Payment: This work will be paid for at the contract unit price per square yard or HMA DRIVEWAY REMOVE AND REPLACE, 3", SPECIAL which price shall include all labor, materials and equipment for constructing this item as specified herein, including any additional excavation and all saw cutting.

**PAVEMENT PATCHING, CLASS D / BITUMINOUS BASE, SPECIAL**

This work shall consist of removal and replacement of existing pavement at locations as directed by the Engineer. This work shall be done in accordance with Section 442 of the Standard Specifications except that the four types, namely Type I, Type II, Type III and Type IV have been combined under the pay item Class D Patches / Bituminous Base Special.

Removal and disposal of granular backfill and/or temporary asphalt for Patches will not be measured for payment separately but shall be considered as included in the bid price for Pavement Patches.

Replace for 5-Inch Patch: Shall be 3-inches of binder, and 2-inches of bituminous surface as specified in Section 406.

Replace for 7-Inch Patch: Shall be two layers of 3-inches of binder, and 2-inches of bituminous surface as specified in Section 406.

Basis of Payment: This work will be paid for at the Contract unit price per square yard for PAVEMENT PATCHING, CLASS D, SPECIAL of the thickness indicated, which price shall include all saw cutting, labor, material, and equipment necessary to perform the work as specified herein.

**PAVEMENT PATCHING, CLASS C, SPECIAL**

This work shall consist of removal and replacement of existing pavement at locations as directed by the Engineer. This work shall be done in accordance with Section 442 of the Standard Specifications except that the four types, namely Type I, Type II, Type III and Type IV have been combined under the pay item PAVEMENT PATCHING, CLASS C, SPECIAL, of the thickness indicated.

**PAVEMENT PATCHING, COMPOSITE / 8-INCH PCC WITH HMA OVERLAY, SPECIAL**

This work shall consist of removal and replacement of existing pavement at locations as directed by the Engineer. Bituminous Hot-Mix Asphalt shall be laid 2-inches of bituminous surface as specified in Section 406 over 8-inches of PCC or match the thickness of the existing pavement, whichever is greater. This work shall be done in accordance with Section 442 of the Standard Specifications except that the four types, namely Type I, Type II, Type III and Type IV have been combined under the pay item PAVEMENT PATCHING, COMPOSITE / 8-INCH PCC WITH HMA OVERLAY, SPECIAL.

**REMOVE AND RESET BRICK PAVERS, SPECIAL**

This work shall consist of removing the existing brick pavers by hand prior to beginning construction. The brick pavers shall be cleaned, stacked, and stored on site until the base is ready for placement. Cleaning shall consist of removing all debris, mud, markings, etc. with water and a brush.

Upon completion of the construction and trench backfill, the Contractor shall provide and grade a sand base to a uniform layer of one inch. The one (1) inch layer of sand shall be compacted so that the finish is free of all undulations, ruts, tire mark and depressions.

The pattern and grade of the brick pavers shall be identical to the pre-existing condition of the street, driveway, or sidewalk, prior to construction and with a minimum of four (4) inch along the curb. Any lost or damaged brick pavers shall be replaced and paid for by the Contractor. The Engineer shall inspect the brick pavers prior to installation. If a shortfall of brick pavers for the street is encountered, the Contractor shall transport from the Village Yard (711 Laramie Avenue) and install any additional required brick pavers to complete the limits as noted on the plans. The additional brick pavers shall be furnished by the VILLAGE. The Contractor shall transport any brick pavers removed, but not used on the project, to the Village Yard, clean and stockpile on pallets. No additional compensation will be made for transporting and installing additional brick pavers.

Basis of Payment: This work will be paid for at the contract unit price per square yard for REMOVE AND RESET BRICK PAVERS, SPECIAL which price shall be payment in full for removing, cleaning, stacking, transporting and installing the brick pavers, transporting and installing additional brick pavers if required, furnishing and installing the bedding layer of sand and all labor, equipment and materials necessary to complete the as specified herein.

**SANITARY/STORM/COMBINED SEWER REPAIR R & R, SPECIAL**

This item shall consist of removing a main-line section of existing sanitary, storm, or combined sewer and replacing it with PVC pipe at locations shown on the plans or as directed by the Engineer. All work shall comply with the Manual of Procedures for the Administration of the Sewer Permit Ordinance. Contractor must contact the MWRDGC Inspector 48 hours prior to all repair of sanitary or combined sewer systems at 708.588.4055.

The PVC pipe for 6-inch to 15-inch diameters shall be polyvinyl chloride (PVC) sewer pipe conforming to ASTM D-3034 with rubber gasket joints conforming to ASTM D-3212. The Standard Dimension Ratio (SDR) for the PVC sewer pipe shall be SDR-26. The PVC pipe for 18-inch to 27-inch diameters shall be polyvinyl chloride (PVC) sewer pipe conforming to ASTM F-679 (F/DY=46) with rubber gasket joints conforming to ASTM D-3212.

When water main quality PVC pipe is specified on the plans, the material shall be polyvinyl chloride (PVC) SDR-26 conforming to ASTM D-2241 OR AWWA C-900/C-905 as specified on the plans. Joints shall be rubber gasket joints conforming to ASTM D-3139 for water main quality PVC.

The PVC sewer pipe shall be joined to the existing sewer pipe at each end with a non-shear "band-seal" coupling with stainless steel non-shear rings. Replacement pipe shall have the same inside diameter as the existing sewer.

Basis of Payment: This work shall be measured and paid for at the contract unit price per foot for SANITARY/STORM/COMBINED SEWER REPAIR R & R, SPECIAL of the diameter indicated, which price shall be considered payment in full for completing this work as specified, including but not limited to saw cutting and removal of pavement and other structures, excavation and disposal, the removal of the existing pipe, the non-shear "band-seal" couplings. Trench backfill, service connections, and pavement patching will be paid for separately.

### **SEWER SERVICE R & R, SPECIAL**

This item shall consist of removing a section of existing sanitary, storm, or combined service sewer and replacing it with PVC SDR-26 pipe at locations shown on the plans or as directed by the Engineer. Replacement pipe shall have the same inside diameter as the existing service sewer. All work shall comply with Section 563 of the Standard Specifications, except as modified herein.

If a sewer service is encountered in the section of sewer main being replaced, a PVC factory wye shall be installed. The wye connection to the existing service shall be completed with minimal replacement of the existing service. The replacement service pipe and non-shear "band-seal" couplings shall meet the same criteria as listed above. The wye connection, band-seal couplings, and replacement sewer service pipe shall be paid for at the contract unit price per each for SEWER SERVICE R & R, SPECIAL.

This work shall be measured and paid for at the contract unit price each for SEWER SERVICE R & R, SPECIAL, which price shall be considered payment in full for completing this work as specified, including all excavation, the removal of the existing pipe, saw cuts, the band-seal couplings, factory wyes, and up to 5 feet of service pipe. Trench backfill and pavement patching will be paid for separately.

Basis of Payment: This work shall be measured and paid for at the contract unit price EACH for SEWER SERVICE R & R, SPECIAL of the diameter indicated, which price shall be considered payment in full for completing this work as specified, including excavation, the removal of the existing pipe, saw cuts, and the non-shear "band-seal" couplings. Trench backfill and pavement patching will be paid for separately.

### **CATCH BASIN, MANHOLE, INLET, AND VALVE VAULT CONSTRUCTION, ADJUSTMENT, AND RECONSTRUCTION, SPECIAL**

This work shall consist of constructing catch basins, manholes, and inlets together with the necessary cast iron frames and lids, in accordance with Section 602 of the "Standard Specifications for Road and Bridge Construction", except as specified herein.

Revise Article 602.02(n) of the Standard Specifications to read:

(n) Coarse Aggregate, gradation CA-11 or CA-13, gravel, crushed gravel, or crushed stone.

Add the following to Article 602.02:

All catch basins, manholes, inlets and valve vaults shall be provided with flexible rubber boots for all pipes to ensure a watertight seal between the pipe and catch basin or manhole. The flexible rubber boots shall conform to ASTM Specification C-923. Each boot shall be included in the cost of CATCH BASINS, MANHOLES, INLETS, and VALVE VAULTS and will not be paid for separately.

Catch basins, manholes, or inlets constructed in a location where an existing catch basin or manhole was removed shall include up to five (5) feet of pipe for each existing pipe location. Sewer pipe shall be PVC SDR-26 OR C-900 when specified on plans in accordance with the Standard Specifications, and connections to the existing sewer shall be made using (non-shear) 'Band Seal', 'Fernco' or approved equal flexible couplings with stainless steel shear rings. Couplings and pipe shall be included in the cost of CATCH BASINS, MANHOLES, INLETS, and VALVE VAULTS and will not be paid for separately.

All closed lids shall have the words "SANITARY", "STORM", "COMBINED", or "WATER" cast into them.

Revise the fourth sentence of Article 602.07 to read:

"All precast units shall be installed on a 4-inch thick coarse aggregate cushion."

Revise the second sentence of Article 602.12 to read:

"The space between the sides of the excavation and the outer surfaces of the catch basin, manhole, inlet or valve vault shall be backfilled with coarse aggregate."

Revise Article 602.16 to read:

Basis of Payment: This work shall be paid for at the Contract unit price per each for CATCH BASINS, MANHOLES, INLETS, or VALVE VAULTS of the type and size specified, sewer pipe and connections, together with the specified frame and grates or lids. Frames, lids and grate types shall be according to the specification, FRAMES AND LIDS, SPECIAL, but shall be included in the price for CATCH BASINS, MANHOLES, INLETS, or VALVE VAULTS, SPECIAL. The removal of existing structures shall also be included in the cost of CATCH BASINS, MANHOLES, INLETS, or VALVE VAULTS, SPECIAL, and will not be paid for separately."

#### **FRAMES AND LIDS, SPECIAL**

This work shall be done in accordance with Section 604, except as modified below:

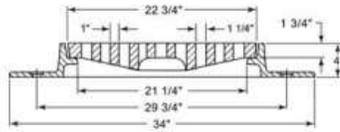
Add the following to Article 604.02 of the Standard Specifications:

"Type 1 frames and lids shall be of a 'heavy duty' type as indicated on the plans and be similar to East Jordan (EJ) or Neenah frames and lids below or approved equal:

**R-2595-A  
Inlet Frame, Grate**

Heavy Duty

CATALOG NUMBER	GRATE TYPE	SQ. FT. OPEN	WEIR PERIMETER LINEAL FEET
R-2595-A	D	1.2	6.0



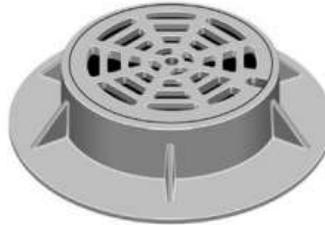
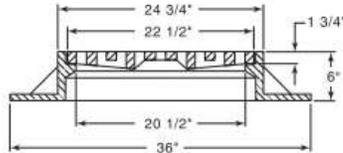
Furnished with six 3/4" anchor holes on 29-3/4" diameter bolt circle.

Available Lid: R-1647-A

**R-2540  
Inlet Frame, Grate**

Heavy Duty

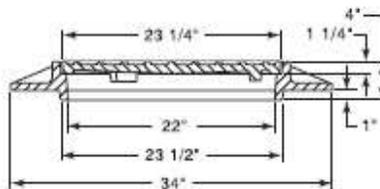
CATALOG NUMBER	GRATE TYPE	SQ. FT. OPEN	WEIR PERIMETER LINEAL FEET
R-2540	D	1.1	5.9
R-2540-A	D	1.1	5.9



Available with 38" diameter frame, order as R-2540-A.

**R-1538  
Manhole Frame, Solid Lid**

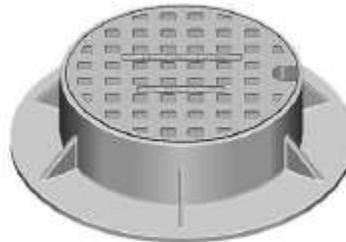
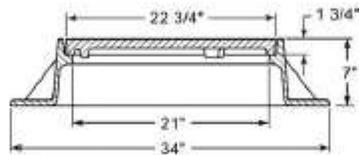
Heavy Duty



**R-1772  
Manhole Frame, Solid Lid**

Heavy Duty

Non-Rocking feature available, see p. 12.



Available Grate: R-2502

Curb Inlets or Catch Basins

Frame & Open Lid: Shall read 'drains to waterways, dump no waste', shall include symbols and be approved by the Engineer before delivery.

For Sewer Manholes and Valve Vaults

Frame & Closed Lid: Shall be 4" or 7" heavy duty type frame, such as Neenah R-1538 or R-1772 frame or approved equal, and solid 'self-sealing' lid with neoprene gasket.

All closed lids shall have the words "SANITARY", "STORM", "COMBINED", or "WATER" cast into them."

Basis of Payment: This work will be paid for at the contract unit price each for FRAMES AND LIDS SPECIAL which price includes all material and labor necessary to complete the work.

**ADDITIONAL SANITARY/STORM/COMBINED SEWER PIPE REMOVAL AND REPLACEMENT, PVC, SPECIAL**

This item shall consist of removing a section of existing sewer and replacing it with PVC pipe at the location of a new catch basin, inlet, or manhole installation and sewer service pipe requiring replacement which is greater than 5' in length shown on the plans or as directed by the Engineer. All work shall comply with Section 563 of the Standard Specifications, except as modified herein.

The PVC pipe shall be polyvinyl chloride (PVC) sewer pipe conforming to ASTM D-3034 with rubber gasket joints conforming to ASTM D-3212 or ASTM F-679 (F/DY=46) for pipe diameter 18" and larger with rubber gasket joints conforming to ASTM D-3212. The Standard Dimension Ratio (SDR) for the PVC sewer pipe shall be 26. The PVC pipe shall be joined to the existing sewer pipe at each end with a band-seal coupling with stainless steel shear rings. Replacement pipe shall be the same inside diameter as the existing sewer.

When water main quality PVC pipe is specified on the plans, the material shall be polyvinyl chloride (PVC) SDR-26 conforming to ASTM D-2241 OR AWWA C-900/C-905 as specified on the plans. Joints shall be rubber gasket joints conforming to ASTM D-3139 for water main quality PVC.

Basis of Payment: Any sewer service pipe requiring replacement which is greater than 5' in length shall be measured and paid for at the contract unit price per foot for ADDITIONAL SEWER PIPE R&R, SPECIAL, of the diameter indicated and meeting the same requirements as listed above.

**ADDITIONAL SANITARY/STORM/COMBINED SEWER PIPE R & R FOR POINT REPAIRS, 15" OR 18" PVC, SPECIAL**

This item shall consist of removing additional sewer pipe on point repairs and replacing with the specified PVC pipe if identified as needed and as directed by the Engineer. All work shall comply with Section 563 of the Standard Specifications, except as modified herein.

The PVC pipe shall be polyvinyl chloride (PVC) sewer pipe conforming to ASTM F-679 (F/DY=46) with rubber gasket joints conforming to ASTM D-3212 OR ASTM D-2241 with rubber gasket joints conforming to ASTM D-3139 for water quality pipe. The Standard Dimension Ratio (SDR) for the PVC sewer pipe shall be 26. The PVC pipe shall be joined to the existing sewer pipe at each end with a band-seal coupling with stainless steel shear rings.

Basis of Payment: Any additional sewer pipe requiring replacement shall be measured and paid for at the contract unit price per foot for ADDITIONAL SEWER PIPE R&R, 15" OR 18" PVC, SPECIAL, of the diameter indicated and meeting the same requirements as listed above.

**CHEMICAL GROUTING SEWER, SPECIAL**

The purpose of this Specification is to describe work related to inspection and elimination of ground water infiltration, via chemical grouting, into the sanitary sewer system from the service connection or mainline.

Grout injection shall conform to ASTM F2454 and ASTM F2304, current version, unless modified by these specifications.

This Item shall include all supervision, labor, equipment and materials to perform all work necessary to clean, inspect (with closed circuit television), test lateral connections and seal defective service connections or void in the pipe in the designated sewer lines at locations shown on the drawings.

Basis of Payment: This work shall be paid for at the Contract unit price per each for CHEMICAL GROUTING SEWER, SPECIAL.

### **WATER MAIN LINE STOP, SPECIAL**

This work shall in accordance with AWWA standards. Line stopping is also referred to as line plugging. The line stopping process enables the temporary cut-off of water for valve replacements in specified locations on the plans.

Basis of Payment: This work shall be measured and paid for at the contract unit price per each for WATERMAIN LINE STOP, SPECIAL of the size indicated, which payment will be full compensation for all fittings, materials, labor, tools, equipment and incidentals necessary, including the line stop, including but not limited to saw cutting and removal of pavement. Trench backfill and pavement patching will be paid for separately. Any additional earth excavation will be paid for by Removal and Disposal of Regulated substances, Non-Special Waste, Special.

### **NEW GATE VALVES WITH VALVE VAULTS, SPECIAL**

This work shall be in accordance with Section 602 of the Standard Specifications and as specified in AWWA C500 and AWWA C509. All materials used in the manufacture of waterworks gate valves shall conform to the AWWA standards designed for each material list.

Gate Valves shall have replaceable resilient seats or wedges, and shall be manufactured by "Waterous", "American Flow Control", or approved equal. Gate Valves shall be installed using stainless steel bolts.

Valve Vaults shall be constructed of precast concrete sections. Frames and lids shall be 4" or 7" heavy duty type frame, such as Neenah R-1538 or R-1772 frame or approved equal, and solid 'self-sealing' lid with neoprene gasket and the cover shall bear the marking "WATER".

Basis of Payment: This work shall be measured and paid for at the contract unit price per each for NEW GATE VALVES, WITH VALVE VAULTS of the size indicated and with the frame and lid indicated, which payment will be full compensation for all fittings, materials, labor, tools, equipment and incidentals necessary, including the valve, the vault and the frame and lid, including but not limited to saw cutting and removal of pavement, the removal of the existing pipe, valve, and valve vault, and the band-seal couplings. Trench backfill and pavement patching will be paid for separately. Any additional earth excavation will be paid for by Removal and Disposal of Excavated Material, Special.

### **REPLACEMENT OF WATER MAIN, SPECIAL**

This work shall in accordance with Section 602 of the Standard Specifications and as specified and

AWWA C500 and AWWA C509. All materials used shall conform to the AWWA standards designed for each material list.

Basis of Payment: This work shall be measured and paid for at the contract unit price per foot for RECONNECTION OF WATERMAIN, SPECIAL, 6" OR 8" OR 12" which payment will be full compensation for all fittings, tees, sleeves, materials, labor, tools, equipment and incidentals necessary, including but not limited to saw cutting and removal of pavement, the removal of the existing pipe. Trench backfill and pavement patching will be paid for separately.

#### **REMOVAL AND DISPOSAL OF EXCAVATED MATERIAL, SPECIAL**

All materials removed outside the limits of the LPC-662 form provided by the VILLAGE shall be disposed of by the end of each day; stockpiling or storing of excavated materials onsite is not allowed. Disposal of excavated materials shall be the responsibility of the Contractor. When the Contractor chooses to dispose of uncontaminated soil at a clean construction and demolition debris (CCDD) facility or at an uncontaminated soil fill operation, it shall be the Contractor's responsibility to have the pH of the material tested to ensure the value is between 6.25 and 9.0.

Materials that do not qualify as CCDD shall not be disposed of at CCDD facilities and any delays or costs resulting from rejected non-CCDD materials at CCDD facilities will be the responsibility of the Contractor. If CCDD materials are rejected or pH testing is outside the acceptable range, the Contractor shall delineate the area of concern and provide the necessary testing and reporting for disposal at a landfill which shall be paid per each for Soil Disposal Analysis and per cubic yard for Removal and Disposal of Regulated substances, Non-Special Waste, Special. Offsite recycling or disposal of non-CCDD materials is the sole responsibility of the Contractor.

Basis of Payment: This work shall be measured and paid for unit price per cubic yard for REMOVAL AND DISPOSAL OF EXCAVATED MATERIAL, SPECIAL

#### **REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES, NON-SPECIAL WASTE AND SPECIAL WASTE, SPECIAL**

This work shall consist of REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES, NON-SPECIAL WASTE DISPOSAL and SPECIAL WASTE DISPOSAL, in accordance with Section 669 of the "Standard Specifications for Road and Bridge Construction"

Basis of Payment: This work shall be measured and paid for unit price per cubic yard for REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES, NON-SPECIAL WASTE AND SPECIAL WASTE

#### **SOIL DISPOSAL ANALYSIS, SPECIAL**

This work shall consist of SOIL DISPOSAL ANALYSIS, in accordance with Section 669 of the "Standard Specifications for Road and Bridge Construction"

The sample results will be compared to the Maximum Allowable Concentrations (MACs) to determine suitability for disposal at a CCDD or Landfill and use within the LPC-663 form documentation. This activity shall include the consultant preparing LPC-662 Form documentation and any other documentation that may be needed.

Basis of Payment: This work shall be paid for in the amount shown in the Pricing Page (allowance). The Contractor will not receive any markup payment for this item for work completed by the consultant. The allowance set aside by the VILLAGE has been inserted into the bid proposal for this project as per/each. Any additional cost associated shall be at the Contractor's expense.

#### **BY-PASS PUMPING, SPECIAL**

When pumping and bypass pumping is required, the Contractor shall supply all necessary pumps, conduits and other equipment to divert the flow around the pipe section or manhole in which work is to be performed. The bypass system shall be of sufficient capacity to handle existing dry-weather flow plus additional flow that may occur during wet-weather (i.e. rainfall or snowmelt events). The Contractor shall be responsible for furnishing the necessary labor and supervision to set up and operate the pumping and bypassing system. Pumps and equipment shall be continuously monitored by the Contractor during the periods that pumping and bypassing are required.

Basis of Payment: This work shall be paid for at the contract unit price lump sum for BY-PASS PUMPING, which price shall be full compensation for all labor, equipment, and material to complete the work as specified in these special provisions.

#### **EXPLORATORY EXCAVATION, SPECIAL**

When requested by Engineer, Contractor shall perform exploratory excavations to uncover utility lines or otherwise investigate existing conditions within the proposed construction limits. Where utility lines are uncovered, the elevation of the utility lines shall be determined by Engineer, and the utility companies advised by Engineer for any adjustments required.

Contractor shall be responsible for any required backfilling with excavated materials and restoration.

Basis of Payment: This work shall be paid for at the contract unit price hours for EXPLORATORY EXCAVATION, which price shall be full compensation for all labor, equipment, and material to complete the work as specified in these special provisions.

#### **STORM DRAIN INLET PROTECTION, SPECIAL**

The Contractor shall be responsible for protection of all storm drain inlets within the project limits with, the installation of pre-manufactured sediment control, storm drain inlet protection at locations shown on the plans.

Inlet protection shall be inspected weekly at minimum and within 24 hours after a precipitation event of 0.5-inches or greater. Silt fence fabric shall not be used for inlet protection.

Basis of Payment: This work shall be paid for at the contract unit price lump sum for Storm Drain Inlet Protection, which price shall be full compensation for all labor, equipment, and material to complete the work as specified in these special provisions.

#### **TREE PROTECTION, SPECIAL**

The Contractor shall make every effort to preserve trees and shrubs within the working area. All trees to be retained shall be root pruned, canopy pruned, boxed, fenced, or otherwise protected prior to the commencement of work. It shall be the responsibility of the Contractor to assemble and install this protection. The tree protection must be approved by the Engineer prior to the commencement of any work. Tree protection shall not be removed without prior approval of the Engineer.

There shall be no construction activity or storage of any material within the enclosure or within the drip line of any tree. All trees to be preserved within the construction zone shall be trimmed and root pruned prior to any construction activity by the Contractor.

All trees with a six (6) inch diameter or less and all shrubs not specifically indicated for removal which are removed or damaged beyond repair as determined by the Engineer shall be replaced by the Contractor with a plant material equivalent in size and species. All removal and planting costs as a result of Contractor damage shall be paid for by the Contractor. All replacement tree planting will be done by the Village.

All trees larger than six (6) inch in diameter and not specifically designated for removal which are damaged or removed during construction shall be assessed a penalty by the Engineer. Each tree damaged shall incur a \$200 per inch in diameter penalty.

Basis of Payment: This work shall be paid for at the contract unit price lump sum for TREE PROTECTION, which price shall be full compensation for all labor, equipment, and material to complete the work as specified in these special provisions.

#### **TOPSOIL FURNISH AND PLACE / SEED, SPECIAL**

This work shall consist of preparing the ground surface, furnishing and applying topsoil to a depth of four (4) inches, and providing seed meeting the requirements in Section 211 and 250 of the Standard Specifications as directed by the Engineer.

Method of Measurement: The quantity will be computed by determination of truck load capacity by the truck load count and with material delivery tickets for topsoil furnished and placed. Topsoil furnish and place shall be that material obtained from outside the right-of-way and will be measured in square yards.

Basis of Payment: This work will be paid for at the contract unit price per square yards of TOPSOIL FURNISH AND PLACE / SEED, SPECIAL.

#### **TRAFFIC CONTROL AND PROTECTION, SPECIAL**

This work shall consist of planning, furnishing, installation, maintenance, relocation, and removal of all traffic control devices as required to complete the work specified in the contract. All work shall be done in accordance with Sections 701 and 702 of the Standard Specifications except as modified herein.

The Contractor shall provide the Engineer, at the preconstruction meeting, a proposed plan for traffic control and protection throughout the duration of the project. The proposal shall include "Road Construction Ahead" signs at the beginning, end and all adjacent roadways to the project. The street adjacent to the alley shall be open to local traffic at all times. If, at the discretion of the Engineer, a road closure is necessary, the Contractor shall submit a proposed traffic control plan no less than three days prior to the day of the closure. The Contractor shall also notify all local authorities and emergency services no less than 24 hours prior to the day of the closure.

At the preconstruction meeting, the Contractor shall furnish the name of the individual in his direct employ who is to be responsible for the installation and maintenance of the traffic control for this project. If the actual installation and maintenance are to be accomplished by a subcontractor, consent shall be requested of the Engineer at the time of the preconstruction meeting in accordance with Article 108.01 of the Standard Specifications. This shall not relieve the Contractor of the m to have a responsible individual in his direct employ supervise the work.

**Basis of Payment:** This work will be paid for at the contract unit price per lump sum for TRAFFIC CONTROL AND PROTECTION, SPECIAL for all locations except Lake Avenue, Hibbard Road and Dartmouth Street. Price shall include all equipment, labor, materials, transportation, handling and incidentals necessary to propose, furnish, install, maintain, replace, relocate and remove all traffic control devices dictated by the work. The salvage value of the materials removed shall be reflected in the bid for this item.

Delays to the Contractor caused by complying with these requirements will be considered incidental to the item for Traffic Control and Protection, and no additional compensation will be allowed.

#### **PRE- AND POST SEWER VIDEO INSPECTION, SPECIAL**

***Pre- Video Inspection:*** It is the Contractor's responsibility to televise the sewers prior to beginning any work on the sewers to capture the existing sewer system's condition.

The existing sewer main pipe condition and sewer service pipe locations indicated on engineering drawings have been determined from the available video records. Upon request, the Contractor will be provided with the available video records and reports.

It is the Contractor's responsibility to re-inspect the condition of the existing sewer system prior to the start of construction. The purpose of the sewer pipe condition re-evaluation is to determine existing service locations and the final location/s and the final quantity of the necessary sewer pipe repairs.

The Contractor shall use an experienced licensed professional trained in the use of closed circuit television in existing sewer systems, which shall furnish the necessary labor, tools, equipment, and appurtenances to clean sewer lines prior to televising and perform the sewer televising services as specified. The television inspection equipment and procedures used shall comply, but are not limited, by the following:

1. The sewer inspections shall be recorded digitally by DVD. The function of the recording shall be to supply a visual and audio record of the condition of the sewer pipes. Recording playback shall be at the same speed that it was recorded. Cost of supplying one DVD copy to the Village shall be included in the bid's unit price.
2. Each sewer shall be televised from manhole to manhole to cover the entire segment length. A run starting at the opposite manhole shall be necessary when a break or blockage prevents the camera

from advancing the entire length. A complete recording shall be made of each line televised from manhole to manhole.

3. Location of sewer lines inspected using basin ID, street name, and manhole numbers
4. Quadrant location of all leaks and cracks.
5. Size (diameter) of sewer line televised.
6. Location of building service connections
7. The footage and manhole numbers shall appear on the screen at all times.
8. Television Inspection logs shall be reported in the sequence as they appear on the DVD's.
9. The sewer televising camera shall have the capability of a rotating lens. While televising the sewer pipe, the Contractor will rotate the camera so as to look in the service and determine if the service is capped or active (in service). This shall also be reflected in the reports. (i.e. capped or live)
10. The Contractor will increase the skids on the camera to the proper size so that camera is in the center of the sewer pipe.
11. Deep sags are to be dewatered so that proper television inspection can be performed.
12. Clean sewer line prior to televising. Cleaning of existing sanitary sewer to conditions necessary for proper televising, including root cutting, removal of debris, etc.
13. The Contractor shall submit DVD in Windows Media based format.

Any deviation from the location and/or quantity indicated on engineering drawings shall be noted and brought to the attention of the Engineer, so that the bid quantities may be adjusted prior to commencing with any sewer repair work. All sewer televising shall be completed and documentation submitted to the Engineer prior to commencement of any underground utility work.

#### ***Post Video Inspection:***

After completing the sewer repairs and backfilling, Contractor shall video tape the completed work using the current NASSCO PACP® (Pipeline Assessment and Certification Program) standards. This work includes full line video of all sewer mains (MH to MH) within the projects scope of work. Payment for the sewer repair work will not be issued until a final video inspection is provided by the Contractor, and reviewed and approved by the Engineer.

#### ***CCTV Equipment***

The Contractor shall provide a closed circuit television (CCTV) and audio-video recording system for internal inspection of mainline sewers capable of producing picture quality to the satisfaction of the VILLAGE.

Operators performing CCTV and software shall have current certification by NASSCO.

#### ***Preparatory Cleaning***

The Contractor shall provide preparatory cleaning of the sewer section to permit unobstructed passage of the television camera and clean enough for the camera to discern structural defects, misalignment, and service lateral connections, points of infiltration and to the satisfaction of the Engineer.

#### ***Inspection Report***

Reporting must follow NASSCO standards. NASSCO certification number must be provided for the person performing the assessment.

The Contractor shall ensure that a minimum of 90% of the internal pipe diameter is viewable for

inspection and:

- 1) Move the camera at a speed no greater than 30 feet per minute and stopping at all defects and points of infiltration and pan as necessary to permit proper documentation of the sewer's condition.
- 2) When encountered the Contractor shall stop and thoroughly inspect each of the following:
  - Change in pipe material and/or sewer repair locations
  - Collapsed pipe, obstructions
  - Stop at all service connections
  - Missing portion of pipe wall
  - Sag, excessively deflected joint
  - Missing, damaged pipe
  - Protruding and break-in connections, and manufactured wyes or tees.
- 3) Stop televising if the camera becomes submerged and use high-pressure jetting or other means to lower water level within the sewer to a point below camera or provide temporary plugs or by-pass pumping as directed by the VILLAGE.
- 4) If the camera is unable to pass an obstruction even though flow is unobstructed, the Contractor shall also approach the obstruction from the other direction in order to obtain complete video on both sides of the obstruction. The Contractor shall notify the Engineer whenever an obstruction is encountered. The Engineer WILL DETERMINE IF THE OBSTRUCTION MUST BE REMOVED.

The Contractor shall:

- 1) Begin each recording with the current date and project name followed by general locations, manhole basin and number, manhole invert depth, direction of viewing and beginning footage count superimposed on the video signal. The recording shall also provide a continuous footage counter and manhole segment identifier on all video recordings.
- 2) Label all disks with the Wilmette, date, basin, manhole number and type of sewer. Electronic file names shall include the street names and manholes that were on the segment televised.
- 3) Provide inspection logs with:
  - a. Contractor's name
  - b. Inspector's name
  - c. Date
  - d. Basin #
  - e. From MH # \_\_\_\_
  - f. To MH # \_\_\_\_\_
  - g. Direction of flow
  - h. Type of pipe material
  - i. Joint spacing
  - j. Manhole conditions
  - k. Section length
  - l. Diameter Pipe size
  - m. Depth of upstream and downstream invert

- n. Direction of inspection (camera movement)
  - o. Surface conditions (parkway or street)
- 4) Document the footage and clock orientation of all pipe defects, change in pipe material, infiltration, building service connections and any other abnormal conditions
  - 5) Use NASSCO Standards for coding defects
  - 6) Provide computer generated entries on inspection logs
  - 7) Complete inspection log in the field
  - 8) Provide audio track describing all information documented in the inspection log.

Basis of Payment: This work shall be paid for at the contract unit price lump sum for PRE- AND POST SEWER VIDEO INSPECTION, SPECIAL which price shall be full compensation for all labor, equipment, and material to complete the work in these special provisions.

**ATTACHMENT FOUR**  
**Sewer TV Report**



P.O. Box 569 - Glenview, IL 60025  
 Ph: (847) 724-3503 Fax: (847) 724-3508  
 www.americanundergroundinc.com

<b>Customer</b> Village of Wilmette	<b>Project Name</b> Combined Sewer Inspection	<b>Project Location</b> Wilmette	<b>Street</b> Central Avenue		
<b>Starting Manhole</b> 38	<b>Ending Manhole</b> 72	<b>Sewer Type</b> Combined Sewer	<b>Pipe Size</b> 18 Inches	<b>Pipe Type</b> VCP	
<b>Media Number</b> 15-2	<b>Media Type</b> Data DVD	<b>Basin</b> W	<b>Pre Cleaning</b> Light Clean	<b>Crew</b> 2	<b>Date</b> August 25, 2015
<b>Time</b> 2:25 PM					

**Comment**

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	Ftg.	Condition	Clock	Cont. Modifier	Intrusion(in)	Comments
▼	0.0	Begin TV Inspection				
	0.0	Manhole		Upstream		
▼	9.5	Longitudinal Crack		Begins		
	20.7	Longitudinal Crack		Ends		
▼	63.5	Cracked Joint				
	67.0	Cracked Joint				
	69.4	Service Connection	1	Abandoned		
	73.4	Service Connection	11	Abandoned		
	75.2	Longitudinal Crack		Begins		
	87.5	Longitudinal Crack		Ends		
▼	103.2	Longitudinal Crack		Begins		
	118.5	Service Connection	1			
▼	127.8	Service Connection	11			
	135.6	Longitudinal Crack		Ends		
▼	170.4	Cracked Joint				
	171.2	Service Connection	1			
	180.0	Manhole		Downstream		
	180.0	End TV Inspection				



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Upstream MH 4	Downstream MH 19	Size 18	Material Vitrified Clay Pipe	City Wilmette	Sewer Type Combined
Street Central Avenue	Drainage Area T	Dye Flooded No	Pre-TV Maint. Heavy Clean	Media # 17-1	
Direction Downstream	Purpose Routine Assessment	Weather Damp	Date 20170829	Time 14:28	Length Surveyed 176

Additional Information

Ftg.	Code	Description	Pct.	Position	Cont.	Comment
0.0	AMH	Access Point - Manhole				Starting Manhole: 4
0.0	MWL	Water Level	5			
3.0	CL	Crack Longitudinal		12	S01	
3.0	CL	Crack Longitudinal		9		
10.0	CL	Crack Longitudinal		12	F01	
10.0	FL	Fracture Longitudinal		12	S03	
18.9	CC	Crack Circumferential		12 to 3		
24.4	FL	Fracture Longitudinal		3		
26.1	FH2	Fracture Longitudinal Hinge, 2		9 to 12	S04	
29.6	FL	Fracture Longitudinal		12	F03	
29.7	FH2	Fracture Longitudinal Hinge, 2		9 to 12	F04	
29.7	FH3	Fracture Longitudinal Hinge, 3		9 to 3	S05	
32.0	TBA	Tap, Break-in / Hammer: Active		10		
34.7	FH3	Fracture Longitudinal Hinge, 3		9 to 3	F05	
34.7	FH4	Fracture Longitudinal Hinge, 4		6 to 6	S06	
45.6	TB	Tap, Break-in / Hammer		10		
50.3	TBA	Tap, Break-in / Hammer: Active		1		
53.8	TBA	Tap, Break-in / Hammer: Active		2		
77.1	FH4	Fracture Longitudinal Hinge, 4		6 to 6	F06	
79.2	FL	Fracture Longitudinal		10		
84.9	TFC	Tap, Factory Made: Capped		11		
87.2	FL	Fracture Longitudinal		11	S07	
88.7	TB	Tap, Break-in / Hammer		10		
93.1	FL	Fracture Longitudinal		11	F07	
93.1	FH2	Fracture Longitudinal Hinge, 2		6 to 12	S08	
101.6	FH2	Fracture Longitudinal Hinge, 2		6 to 12	F08	
114.3	TBA	Tap, Break-in / Hammer: Active		10		
134.7	TFC	Tap, Factory Made: Capped		10		
154.2	TBI	Tap, Break-in / Hammer: Intruding		10		
158.7	TBA	Tap, Break-in / Hammer: Active		2		
160.3	CH2	Crack Longitudinal Hinge, 2		6 to 12	S09	
161.2	TBD	Tap, Break-in / Hammer: Defective		2		Infiltration
170.8	BSV	Pipe Broken: Soil Visible		4 to 8		
174.0	CH2	Crack Longitudinal Hinge, 2		6 to 12	F09	
176.0	AMH	Access Point - Manhole				Ending Manhole 19



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Upstream MH 40	Downstream MH to 40A to 39	Size 10	Material Vitrified Clay Pipe	City Wilmette	Sewer Type Combined
Street Catalpa Place	Drainage Area R	Dye Flooded No	Pre-TV Maint. Light Clean	Media # 17-10	
Direction Downstream	Purpose Routine Assessment	Weather Damp	Date 20171025	Time 08:24	Length Surveyed 190

Additional Information

Ftg.	Code	Description	Pct.	Position	Cont.	Comment
0.0	AMH	Access Point - Manhole				Starting Manhole: 40
0.0	MWL	Water Level	10			
1.0	FH2	Fracture Longitudinal Hinge, 2		3 to 9		
2.0	FM	Fracture Multiple		7 to 5		
5.0	FC	Fracture Circumferential		2 to 5		
7.0	FC	Fracture Circumferential		8 to 11		
19.2	FL	Fracture Longitudinal		2		
23.1	FL	Fracture Longitudinal		12	S01	
27.2	FL	Fracture Longitudinal		12		
27.2	FH3	Fracture Longitudinal Hinge, 3		9 to 3	S02	
29.4	B	Pipe Broken		12	S07	
41.6	TFD	Tap, Factory Made: Defective		10		Hole in pipe
44.1	TFA	Tap, Factory Made: Active		3		
90.1	TFC	Tap, Factory Made: Capped		10		
92.1	TFA	Tap, Factory Made: Active		2		
96.5	B	Pipe Broken		12	F07	
97.1	MWLS	Water Level: Sag	25		S05	
102.7	TBA	Tap, Break-in / Hammer: Active		10		
MH 40A 120.7	MGO	General Observation				Manhole Existing
126.2	MWLS	Water Level: Sag	10		F05	
138.6	TFD	Tap, Factory Made: Defective		10		Cracks
140.9	TFC	Tap, Factory Made: Capped		2		
160.9	CC	Crack Circumferential		8 to 4		
167.3	CC	Crack Circumferential		6 to 1		
175.0	MWLS	Water Level: Sag	30		S06	
177.1	FC	Fracture Circumferential		1 to 6		
187.3	CM	Crack Multiple		9 to 4		
190.0	MWLS	Water Level: Sag	15		F06	
190.0	AMH	Access Point - Manhole				Ending



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<b>Upstream MH</b> 42	<b>Downstream MH</b> 41	<b>Size</b> 10	<b>Material</b> Vitrified Clay Pipe	<b>City</b> Wilmette	<b>Sewer Type</b> Combined
<b>Street</b> Catalpa Place	<b>Drainage Area</b> R	<b>Dye Flooded</b> No	<b>Pre-TV Maint.</b> Root Cut	<b>Media #</b> 17-10	
<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20171020	<b>Time</b> 14:35	<b>Length Surveyed</b> 189

**Additional Information**

Ftg.	Code	Description	Pct.	Position	Cont.	Comment
0.0	AMH	Access Point - Manhole				Starting Manhole: 42
0.0	MWL	Water Level	5			
1.0	CM	Crack Multiple		8 to 4		
8.9	FH3	Fracture Longitudinal Hinge, 3		9 to 3	S04	
13.1	RFJ	Roots, Fine: Joint		8 to 4	S03	
22.2	RBJ	Roots, Ball, Joint	80	8 to 5		
23.4	TFA	Tap, Factory Made: Active		2		Roots in service
33.0	FH3	Fracture Longitudinal Hinge, 3		9 to 3	F04	
33.0	FH4	Fracture Longitudinal Hinge, 4		7 to 6	S05	
43.5	RFJ	Roots, Fine: Joint		8 to 4	F03	
43.8	FH4	Fracture Longitudinal Hinge, 4		6 to 6	F05	
71.8	TFA	Tap, Factory Made: Active		2		
114.2	FH2	Fracture Longitudinal Hinge, 2		6 to 12	S06	
120.8	FH2	Fracture Longitudinal Hinge, 2		6 to 12	F06	
120.8	TFC	Tap, Factory Made: Capped		10		
122.7	TFA	Tap, Factory Made: Active		2		
148.7	TBA	Tap, Break-in / Hammer: Active		2		
168.6	TFD	Tap, Factory Made: Defective		10		Seperated At Main
170.8	TFC	Tap, Factory Made: Capped		2		
189.0	AMH	Access Point - Manhole				Ending



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<b>Upstream MH</b> 41	<b>Downstream MH</b> 40	<b>Size</b> 10	<b>Material</b> Vitrified Clay Pipe	<b>City</b> Wilmette	<b>Sewer Type</b> Combined
<b>Street</b> Catalpa Place	<b>Drainage Area</b> R	<b>Dye Flooded</b> No	<b>Pre-TV Maint.</b> Root Cut	<b>Media #</b> 17-10	
<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20171020	<b>Time</b> 15:06	<b>Length Surveyed</b> 186

**Additional Information**

Ftg.	Code	Description	Pct.	Position	Cont.	Comment
0.0	AMH	Access Point - Manhole				Starting Manhole: 41
0.0	MWL	Water Level	5			
19.8	TBA	Tap, Break-in / Hammer: Active		2		
30.3	TFA	Tap, Factory Made: Active		10		
32.3	TFC	Tap, Factory Made: Capped		2		
41.4	CC	Crack Circumferential		1 to 4		
57.6	FL	Fracture Longitudinal		12		
60.5	CC	Crack Circumferential		1 to 5		
66.1	TBA	Tap, Break-in / Hammer: Active		9		
67.9	CM	Crack Multiple		9 to 2		
78.2	TFC	Tap, Factory Made: Capped		10		
80.0	TFD	Tap, Factory Made: Defective		2		
84.5	FH3	Fracture Longitudinal Hinge, 3		12 to 6	S01	
90.5	FH3	Fracture Longitudinal Hinge, 3		12 to 6	F01	
102.3	FL	Fracture Longitudinal		12	S02	
113.9	FL	Fracture Longitudinal		12	F02	
120.9	FH2	Fracture Longitudinal Hinge, 2		6 to 12		
124.5	TBA	Tap, Break-in / Hammer: Active		10		
128.5	TFC	Tap, Factory Made: Capped		10		
130.4	CC	Crack Circumferential		1 to 4		
130.5	TFA	Tap, Factory Made: Active		2		
150.4	CC	Crack Circumferential		11 to 2		
170.9	CC	Crack Circumferential		1 to 5		
177.1	CC	Crack Circumferential		1 to 6		
177.6	TFD	Tap, Factory Made: Defective		10		
179.0	TFA	Tap, Factory Made: Active		2		
186.0	AMH	Access Point - Manhole				Ending



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<b>Upstream MH</b> 71	<b>Downstream MH</b> 70	<b>Size</b> 18	<b>Material</b> Vitrified Clay Pipe	<b>City</b> Wilmette	<b>Sewer Type</b> Combined
<b>Street</b> Forest Avenue		<b>Drainage Area</b> T	<b>Dye Flooded</b> No	<b>Pre-TV Maint.</b> Light Clean	<b>Media #</b> 17-1
<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20170825	<b>Time</b> 13:49	<b>Length Surveyed</b> 174

**Additional Information**

Ftg.	Code	Description	Pct.	Position	Cont.	Comment
0.0	AMH	Access Point - Manhole				Starting Manhole: 71 Missing bottom of the pipe
0.0	MWL	Water Level	35			
1.0	CL	Crack Longitudinal		12	S01	
16.2	CL	Crack Longitudinal		12	F01	
21.2	CL	Crack Longitudinal		9		
21.3	TBA	Tap, Break-in / Hammer: Active		10		
39.4	RFJ	Roots, Fine: Joint		8 to 4		
43.2	RFJ	Roots, Fine: Joint		9		
48.1	FL	Fracture Longitudinal		12	S02	
49.2	RFJ	Roots, Fine: Joint		8 to 4	S03	
57.6	TFC	Tap, Factory Made: Capped		10		
60.4	TFC	Tap, Factory Made: Capped		2		
61.9	MMC	Material Change				PVC
61.9	RFJ	Roots, Fine: Joint		9 to 4	F03	
61.9	FL	Fracture Longitudinal		12	F02	
62.2	TB	Tap, Break-in / Hammer		2		
64.6	RFJ	Roots, Fine: Joint		8 to 4	S04	
65.1	FH3	Fracture Longitudinal Hinge, 3		9 to 3	S06	
93.8	TFC	Tap, Factory Made: Capped		10		
97.8	TFC	Tap, Factory Made: Capped		2		
102.4	RFJ	Roots, Fine: Joint		9 to 3	F04	
118.1	FH3	Fracture Longitudinal Hinge, 3		9 to 3	F06	
135.8	TBA	Tap, Break-in / Hammer: Active		10		
142.6	TFC	Tap, Factory Made: Capped		10		
145.7	TFA	Tap, Factory Made: Active		1		
152.1	CC	Crack Circumferential		6 to 12		
154.8	CC	Crack Circumferential		11 to 5		
156.5	FH2	Fracture Longitudinal Hinge, 2		12 to 4	S07	
168.1	DSZ	Deposits Settled: Other	50	3 to 9	S08	Concrete
174.0	FH2	Fracture Longitudinal Hinge, 2		12 to 4	F07	
174.0	MSA	Survey Abandoned				Camra blocked by Concrete. Aproximety 10 feet from the manhole



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<b>Upstream MH</b> 28	<b>Downstream MH</b> 27	<b>Size</b> 8	<b>Material</b> Reinforced Concrete Pipe	<b>City</b> Wilmette	<b>Sewer Type</b> Sanitary
<b>Street</b> Schiller Avenue		<b>Drainage Area</b> 2	<b>Dye Flooded</b> No	<b>Pre-TV Maint.</b> Light Clean	<b>Media #</b> 17-4
<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20170628	<b>Time</b> 09:26	<b>Length Surveyed</b> 220

**Additional Information**

Ftg.	Code	Description	Pct.	Position	Cont.	Comment
0.0	AMH	Access Point - Manhole				Starting Manhole: 28
0.0	MWL	Water Level	5			
1.0	DAE	Deposits Attached: Encrustation	5	3 to 5		
3.0	TBA	Tap, Break-in / Hammer: Active		10		
11.8	DAE	Deposits Attached: Encrustation	5	2 to 10		
45.1	TFA	Tap, Factory Made: Active		2		
48.0	TFA	Tap, Factory Made: Active		10		
88.3	MWLS	Water Level: Sag	50		S01	
101.4	TFA	Tap, Factory Made: Active		3		
104.4	TFA	Tap, Factory Made: Active		9		
119.3	DAE	Deposits Attached: Encrustation	5	8 to 4		
153.4	MMC	Material Change				PVC
154.7	TF	Tap, Factory Made		2		
156.5	MMC	Material Change				RCP
157.9	TF	Tap, Factory Made		10		
160.7	MWLS	Water Level: Sag	5		F01	
161.8	CC	Crack Circumferential		7 to 5		
176.3	BSV	Pipe Broken: Soil Visible		4 to 8		
179.8	FC	Fracture Circumferential		3 to 8		
203.2	MWLS	Water Level: Sag	25		S02	
203.5	DAE	Deposits Attached: Encrustation	5	2 to 10		
218.0	MWLS	Water Level: Sag	5		F02	
220.0	AMH	Access Point - Manhole				Ending Manhole 27



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Upstream MH 198	Downstream MH 174	Size 10	Material Vitrified Clay Pipe	City Wilmette	Sewer Type Sanitary
Street Wilmette Avenue	Drainage Area 9	Dye Flooded No	Pre-TV Maint. Light Clean	Media # 17-3	
Direction Downstream	Purpose Routine Assessment	Weather Dry	Date 20170711	Time 11:04	Length Surveyed 159

Additional Information

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Ftg.	Code	Description	Pct.	Position	Cont.	Comment
0.0	AMH	Access Point - Manhole				Starting Manhole: 198
0.0	MWL	Water Level	5			
19.0	DAE	Deposits Attached: Encrustation	5	8 to 4		
28.0	DAE	Deposits Attached: Encrustation	5	8 to 4		
40.2	DAE	Deposits Attached: Encrustation	5	12 to 4		
42.8	DAE	Deposits Attached: Encrustation	5	12 to 4		
46.0	CH2	Crack Longitudinal Hinge, 2		12 to 4		
47.2	TB	Tap, Break-in / Hammer		12		
49.3	CM	Crack Multiple		10 to 2		
52.0	DAE	Deposits Attached: Encrustation	5	8 to 4		
52.3	CS	Crack Spiral		9 to 5	S01	
54.8	DAE	Deposits Attached: Encrustation	5	8 to 4		
56.7	CS	Crack Spiral		9 to 5	F01	
57.5	DAE	Deposits Attached: Encrustation	5	8 to 4		
60.8	DAE	Deposits Attached: Encrustation	5	8 to 4		
62.1	CS	Crack Spiral		10 to 2	S02	
66.4	DAE	Deposits Attached: Encrustation	5	7 to 12		
68.0	CS	Crack Spiral		10 to 2	F02	
73.1	CS	Crack Spiral		8 to 4	S05	
75.7	DAE	Deposits Attached: Encrustation	5	8 to 4	S04	
100.7	DAE	Deposits Attached: Encrustation	5	8 to 4	F04	
111.2	DAE	Deposits Attached: Encrustation	5	8 to 4		
112.8	MWLS	Water Level: Sag	25		S06	
114.3	DAE	Deposits Attached: Encrustation	5	8 to 4		
115.3	CS	Crack Spiral		8 to 4	F05	
126.1	DAE	Deposits Attached: Encrustation	5	8 to 4		
129.9	CS	Crack Spiral		10 to 4	S07	
132.0	DAE	Deposits Attached: Encrustation	5	8 to 4		
138.0	DAE	Deposits Attached: Encrustation	5	8 to 4		
141.0	DAE	Deposits Attached: Encrustation	5	8 to 4		
148.0	CS	Crack Spiral		10 to 3	F07	
150.5	FL	Fracture Longitudinal		12	S08	
152.6	B	Pipe Broken		1 to 11		
154.6	FL	Fracture Longitudinal		12	F08	
156.3	MWLS	Water Level: Sag	20		F06	
159.0	AMH	Access Point - Manhole				Ending Manhole 174



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<b>Upstream MH</b> 46	<b>Downstream MH</b> 46A	<b>Size</b> 15	<b>Material</b> Vitrified Clay Pipe	<b>City</b> Wilmette	<b>Sewer Type</b> Combined
<b>Street</b> Greenwood Avenue	<b>Drainage Area</b> P	<b>Dye Flooded</b> No	<b>Pre-TV Maint.</b> Light Clean	<b>Media #</b> 17-2	
<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20170901	<b>Time</b> 13:09	<b>Length Surveyed</b> 192

**Additional Information**

Ftg.	Code	Description	Pct.	Position	Cont.	Comment
0.0	AMH	Access Point - Manhole				Starting Manhole: 46
0.0	MWL	Water Level	5			
2.4	TFC	Tap, Factory Made: Capped		3		
9.4	CL	Crack Longitudinal		6	S01	
15.4	CL	Crack Longitudinal		6	F01	
29.3	TB	Tap, Break-in / Hammer		2		
41.4	TFC	Tap, Factory Made: Capped		10		
44.3	FL	Fracture Longitudinal		4		
44.6	TFC	Tap, Factory Made: Capped		2		
47.6	FH4	Fracture Longitudinal Hinge, 4		7 to 6	S02	
86.5	TBA	Tap, Break-in / Hammer: Active		10		
93.0	TFC	Tap, Factory Made: Capped		10		
93.2	TBA	Tap, Break-in / Hammer: Active		2		
95.1	TFC	Tap, Factory Made: Capped		2		
97.3	TB	Tap, Break-in / Hammer		10		
99.8	D	Pipe Deformed	5			
101.0	TBA	Tap, Break-in / Hammer: Active		2		
129.1	FH4	Fracture Longitudinal Hinge, 4		6 to 6	F02	
131.5	CL	Crack Longitudinal		12	S03	
136.9	CL	Crack Longitudinal		12	F03	
137.1	FL	Fracture Longitudinal		12	S04	
139.8	CL	Crack Longitudinal		2	S05	
141.5	TFC	Tap, Factory Made: Capped		10		
143.9	TFC	Tap, Factory Made: Capped		2		
151.4	CL	Crack Longitudinal		3	F05	
156.6	RFJ	Roots, Fine: Joint		6 to 9		
158.8	RFJ	Roots, Fine: Joint		7 to 9		
165.2	RFJ	Roots, Fine: Joint		3 to 9		
169.4	FL	Fracture Longitudinal		12	F04	
169.5	CM	Crack Multiple		8 to 4		
169.8	CL	Crack Longitudinal		12	S06	
173.9	FC	Fracture Circumferential		5 to 9		
175.6	RFJ	Roots, Fine: Joint		7 to 9		
177.5	RFJ	Roots, Fine: Joint		5 to 9		
179.3	D	Pipe Deformed	15			
179.3	B	Pipe Broken		5 to 8		
181.0	CL	Crack Longitudinal		12	F06	
181.5	MMC	Material Change				PVC
192.0	AMH	Access Point - Manhole				Ending Manhole 46A

<b>Customer</b> Village of Wilmette		<b>Project Name</b> Sanitary Sewer Inspection		<b>Project Location</b> Wilmette		<b>Street</b> Dartmouth Street	
<b>Starting Manhole</b> 17		<b>Ending Manhole</b> 16		<b>Sewer Type</b> Sanitary Sewer		<b>Pipe Size</b> 8 Inches	
<b>Media Type</b> Data DVD		<b>Basin</b> 3		<b>Pre Cleaning</b> Heavy Clean		<b>Crew</b> 2	
<b>Media Number</b> 13-2				<b>Date</b> November 6, 2013		<b>Time</b> 11:06 AM	
<b>Comment</b>							

Ftg.	Condition	Clock	Cont. Modifier	Intrusion(in)	Comments
17	Begin TV Inspection				
0.0	Manhole		Upstream		
0.0					
16.3	Service Connection	9			
16.8	Sag in Pipe		Begins		
20.2	Service Connection	3			
42.4	Service Connection	10			
45.3	Service Connection	2			
57.9	Cracked Joint				
63.2	Sag in Pipe		Ends		
66.6	Cracked Joint				
68.3	Offset Joint				
76.2	Offset Joint				
88.6	Offset Joint				
99.7	Cracked Joint				
101.7	Offset Joint				
103.6	Sag in Pipe		Begins		
107.6	Mineral Deposits				
116.8	Service Connection	10			
120.5	Sag in Pipe		Ends		
127.0	Camera Blocked				By offset joint
127.0	End TV Inspection				
16					

<b>Customer</b> Village of Wilmette		<b>Project Name</b> Sanitary Sewer Inspection		<b>Project Location</b> Wilmette		<b>Street</b> Dartmouth Street	
<b>Starting Manhole</b> 16		<b>Ending Manhole</b> 17		<b>Sewer Type</b> Sanitary Sewer		<b>Pipe Size</b> 8 Inches	
<b>Media Type</b> Data DVD		<b>Basin</b> 3		<b>Pre Cleaning</b> Heavy Clean		<b>Crew</b> 2	
<b>Media Number</b> 13-2				<b>Date</b> November 6, 2013		<b>Time</b> 11:28 AM	
<b>Comment</b>							

Ftg.	Condition	Clock	Cont. Modifier	Intrusion(in)	Comments
17	113.0 End TV Inspection				
	112.6 Separated Joint				
	112.3 Offset Joint				
	109.6 Offset Joint				
	108.6 Service Connection	2	Abandoned		
	106.7 Offset Joint				
	104.3 Offset Joint				
	96.4 Offset Joint				
	93.5 Offset Joint				
	91.3 Offset Joint				
	88.6 Roots at Joint		Light		
	86.3 Roots at Joint		Light		
	80.8 Offset Joint				
	80.8 Roots at Joint		Light		
	77.7 Service Connection	2	Abandoned		
	75.9 Offset Joint				
	73.5 Sag in Pipe		Begins		
	73.1 Offset Joint				
	70.8 Offset Joint				
	70.6 Roots at Joint		Light		
	65.3 Roots at Joint		Light		
	62.9 Roots at Joint		Light		
	60.1 Offset Joint				
	50.0 Offset Joint				
	46.8 Offset Joint				
	38.8 Offset Joint				
	36.8 Offset Joint				
	31.3 Offset Joint				
	22.1 Offset Joint				
	18.3 Offset Joint				
	3.0 Drop Connection	6			
	0.0 Reverse Setup				
16	0.0 Manhole		Downstream		
	0.0 Begin TV Inspection				



American Underground, Inc.  
 P.O. Box 569 • Glenview, IL 60025  
 Ph: (847) 724-3503 Fax: (847) 724-3508  
 www.americanundergroundinc.com

Upstream MH 60	Downstream MH 59	Size 8	Material Vitrified Clay Pipe	City Wimette	Sewer Type Sanitary
Street Illinois Road	Drainage Area Basin 6	Dye Flooded No	Pre-TV Maint. Heavy Clean	Media # 16-3	
Direction Downstream	Purpose Routine Assessment	Weather Saturated	Date 20160623	Time 09:29	Length Surveyed 210

Additional Information

Fig.	Code	Description	Pct.	Position	Cont.	Comment
0.0	AMH	Access Point - Manhole				Starting Manhole: 60
0.0	MWL	Water Level	5			
1.0	DAE	Deposits Attached: Encrustation	5	7 to 4		
4.8	MWLS	Water Level: Sag	45		S01	
14.7	DAE	Deposits Attached: Encrustation	5	8 to 11		
16.1	DAE	Deposits Attached: Encrustation	5	10 to 12		
19.2	DAE	Deposits Attached: Encrustation	5	1 to 4		
25.9	MWLS	Water Level: Sag	5		F01	
28.8	DAE	Deposits Attached: Encrustation	5	8 to 4		
28.8	IR	Infiltration - Runner		2		
34.9	DAE	Deposits Attached: Encrustation	5	1 to 3		
37.8	DAE	Deposits Attached: Encrustation	5	3		
40.7	DAE	Deposits Attached: Encrustation	5	8 to 3		
47.0	DAE	Deposits Attached: Encrustation	5	7 to 5	S03	
50.1	JOL	Joint Offset (displaced): Large				
50.1	MWLS	Water Level: Sag	20		S02	
51.5	TFC	Tap, Factory Made: Capped		2		
53.7	FC	Fracture Circumferential		6 to 9		
56.7	MWLS	Water Level: Sag	5		F02	
59.2	DAE	Deposits Attached: Encrustation	10	7 to 5	F03	
74.2	DAE	Deposits Attached: Encrustation	10	7 to 5		
80.3	DAE	Deposits Attached: Encrustation	5	6 to 12		
84.2	MWLS	Water Level: Sag	15		S04	
93.4	DAE	Deposits Attached: Encrustation	5	8 to 4		
96.1	MWLS	Water Level: Sag	5		F04	
102.4	DAE	Deposits Attached: Encrustation	5	7 to 5		
105.9	DAE	Deposits Attached: Encrustation	5	7 to 5		
111.9	DAE	Deposits Attached: Encrustation	5	7 to 5	S06	
125.7	TFC	Tap, Factory Made: Capped		1		
135.4	TB	Tap, Break-in / Hammer		1		
141.0	DAE	Deposits Attached: Encrustation	5	7 to 12	F06	
156.2	DAE	Deposits Attached: Encrustation	5	7 to 11		
159.2	DAE	Deposits Attached: Encrustation	5	6 to 11		
165.2	DAE	Deposits Attached: Encrustation	5	4		
168.3	DAE	Deposits Attached: Encrustation	5	8 to 4		
169.4	MWLS	Water Level: Sag	25		S07	
181.1	DAE	Deposits Attached: Encrustation	5	1 to 4		
181.1	B	Pipe Broken		8 to 5		
208.2	MWLS	Water Level: Sag	5		F07	
210.0	AMH	Access Point - Manhole				Ending Manhole

Hoerr Construction, Inc.  
 1416 County Road 200 N  
 Goodfield, IL 61742  
 Office: (309) 691-6653  
 www.hoerr.com



# PACP Sewer Report

Surveyed by: Dan Salata #20 Certificate No: U-114-06019562 Owner: Village of Wilmette Survey Customer: Village of Wilmette Sheet number:  
 Work order: Illinois6-60-59 Pipeline segment ref: Illinois6-60-59 Start date/time: 2018/06/19 07:38 Street: Illinois City: Wilmette  
 Location details: Upstream manhole No: 6-60 Rim to invert: 7.0 Grade to invert: 7.0 Rim to grade: 8  
 Downstream manhole No: 6-59 Rim to invert: 7.6 Sewer use: SS Direction: D Flow control: Height: 8  
 Width: 8 Shape: C Material: VCP Ln. method: Pipe joint length: 7.6 Total length: 212.4 Length surveyed: 212.4 Year laid: Year renewed: Media label:  
 Purpose: D Sewer category: J Pre-cleaning Date cleaned: Weather: Location code: Additional info:

## Starting access point:

Distance (Feet) (Meters)	Video Ref.	Group/ Descriptor	Modifier/ Severity	Continuous Defect S/M/L	Value Inches (mm)	%	Joint	Circumferential Location	Image Ref.	Remarks
					1st	2nd	At/From	to		
0.0	6	AMH								MH 6-60
0.0	21	MWL				5				
30.2	86	IR					2			
53.8	180	TFC			6		2			Capped
53.8	195	MWL S				75				
126.8	345	TF			6		3			calcium????
138.0	391	TBI			6	1	3			cut
212.4	616	AMH								MH 6-59

**ATTACHMENT FIVE**  
**Soil Boring Report**



September 1, 2016

Ms. Danielle Horn, P.E.  
Village of Wilmette Engineering Department  
1200 Wilmette Avenue  
Wilmette, IL 60091-0040  
Email: [hornd@wilmette.com](mailto:hornd@wilmette.com)

ECS Project No. 16:11572

Reference: pH Testing Results Addendum Letter, Village of Wilmette 2016 Sewer Repair/Valve Replacement Program, Various Streets, Wilmette, Illinois

Dear Ms. Horn:

As authorized by your Purchase Order (PO #16200016-00), dated April 29, 2016, ECS Midwest, LLC (ECS) has completed the soils pH testing for the proposed sewer line repairs and valve replacement program at various streets located within the Village of Wilmette, Illinois. This report provides the pH testing results of borings B-1 through B-9 for the proposed sewer line repairs and valve replacement program project. The pH testing results for borings B-10 through B-12 performed for the Brick Street Soil Borings portion of the project will be provided under separate cover. The Report of Subsurface Exploration and Geotechnical Engineering Services (ECS Project No. 16:11572, dated August 26, 2016) was recently submitted for the proposed sewer line repairs and valve replacement program portion of the project. This addendum letter report should be read in complete context with the previously submitted report.

### **pH Soils Testing**

ECS performed pH testing on one (1) selected soil sample obtained from each of the boring locations (totaling 9 samples). The pH testing was performed in general accordance with ASTM standard D 4972. ECS utilized a hand held pH testing electrode meter to take reading on individual samples collected during the drilling exploration. The pH electrode meter was calibrated using a buffer solution with known pH values. Each sample was air dried and pulverized prior to passing through a No. 10 sieve. Approximately 10 grams of the No.10 sieved material was soaked with approximately 10 grams of distilled water for at least 1 hour. The results of the pH testing can be found in the next section of this letter report.

### **pH Testing Results**

The select soil sample recovered from each boring location was tested for pH in the laboratory. In general, pH testing was performed on soil samples encountered at a depth of between 1 and 10 feet below existing pavement grades at each boring location. The pH values ranged from approximately 8.4 to 9.1. Table 1 below presents the values of pH for each sample tested.

**Table 1. pH Testing Results**

Street Location	Boring Number(s)	Test Depth (feet)	pH
Illinois Street near Pomona Lane	B-6	8½ - 10 feet	8.4
15 <sup>th</sup> Street – Central Avenue to Wilmette Avenue	B-7	6 – 7½ feet	8.9
	B-8	6 – 7½ feet	8.7
Elmwood Avenue near 9 <sup>th</sup> Street	B-9	8½ - 10 feet	8.5
Skokie Boulevard and Lake Avenue	B-1	3½ - 5 feet	9.1
<b>Country Lane and Hibbard Road</b>	<b>B-2</b>	<b>1 – 2½ feet</b>	<b>8.6</b>
Lake Avenue and Illinois Road	B-3	1 – 2½ feet	8.9
<b>Wilmette Avenue near Central Avenue</b>	<b>B-5</b>	<b>3½ - 5 feet</b>	<b>8.8</b>
Lake Avenue near 18 <sup>th</sup> Street	B-4	3½ - 5 feet	8.6

We appreciate this opportunity to be of additional service to the Village of Wilmette during the design phase of this project. If you have questions with regard to the information contained in this letter, or if we may be of further service to you during the planning and/or construction phase of this project, please do not hesitate to contact the undersigned.

**ECS MIDWEST, LLC**



Bernardo Martinez-Tarin  
Geotechnical Staff Project Manager



Paul J. Giese, P.E.  
Principal Engineer  
Renews 11/30/2017

Based on the results of our subsurface exploration and the zone of color change, the estimated seasonal high water table at the project site is located at approximately 12 feet below existing site grades based on our observations at boring location B-12 (about EL. +606 feet above MSL (±) at boring B-12)

The highest groundwater observations are normally encountered in late winter and early spring and the current groundwater observations are not likely to be close to the seasonal maximum water table. It should be noted that the groundwater level can vary based on precipitation, evaporation, surface run-off and other factors not immediately apparent at the time of this exploration. Surface water runoff will be a factor during general construction, and steps should be taken during construction to control surface water runoff and to remove water that may accumulate in the proposed excavations as well as floor slab and pavement areas.

### **pH Testing Results**

A select soil sample recovered from each boring location was tested for pH in the ECS soil laboratory. In general, pH testing was performed on soil samples encountered at a depth of between 3½ and 7½ feet below existing pavement grades at each boring location. The pH values ranged from approximately 8.3 to 8.6. Table 1 below presents the values of pH for each sample tested.

**Table 1. pH Testing Results**

<b>Street Locations</b>	<b>Boring Number(s)</b>	<b>Test Depth (feet)</b>	<b>pH</b>
Washington Avenue	<b>B-10</b>	<b>3½ - 5 feet</b>	<b>8.3</b>
	B-11	3½ - 5 feet	8.6
	B-12	6 – 7½ feet	8.6

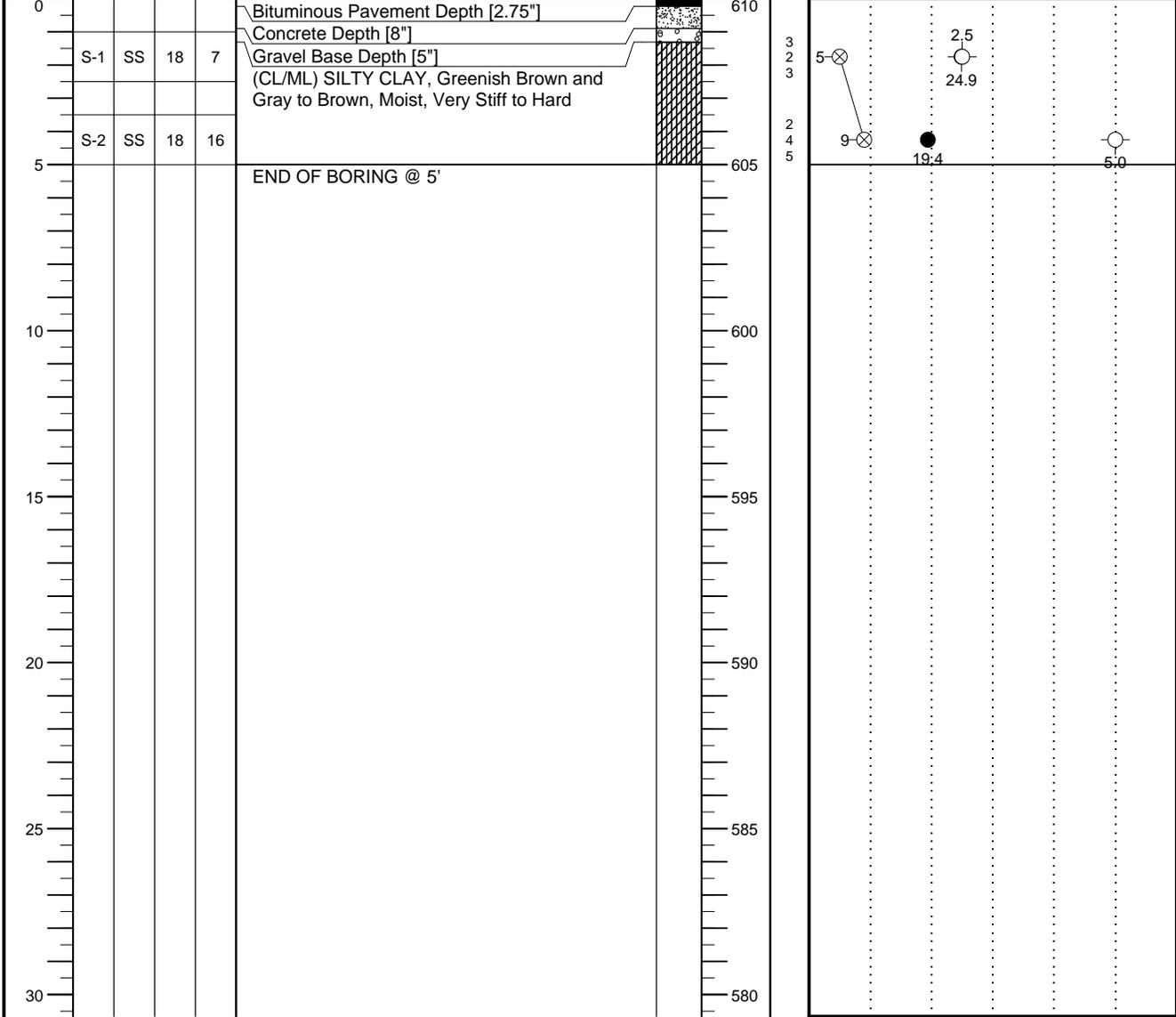


CLIENT <b>Village of Wilmette</b>	JOB # <b>16:11572</b>	BORING # <b>B-5</b>	SHEET <b>1 OF 1</b>	
PROJECT NAME <b>Wilmette 2016 Sewer Repair/Valve Replacement &amp; 2017 Brick</b>	ARCHITECT-ENGINEER <b>Village of Wilmette</b>			

SITE LOCATION  
**Various Streets, Wilmette, Cook County, IL**

NORTHING <b>42.077785</b>	EASTING <b>-87.705821</b>	STATION
------------------------------	------------------------------	---------

DEPTH (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	ENGLISH UNITS	WATER LEVELS ELEVATION (FT)	BLOWS/6"
					BOTTOM OF CASING 	LOSS OF CIRCULATION 		
					SURFACE ELEVATION <b>+610 (+/-)</b>			



THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL.

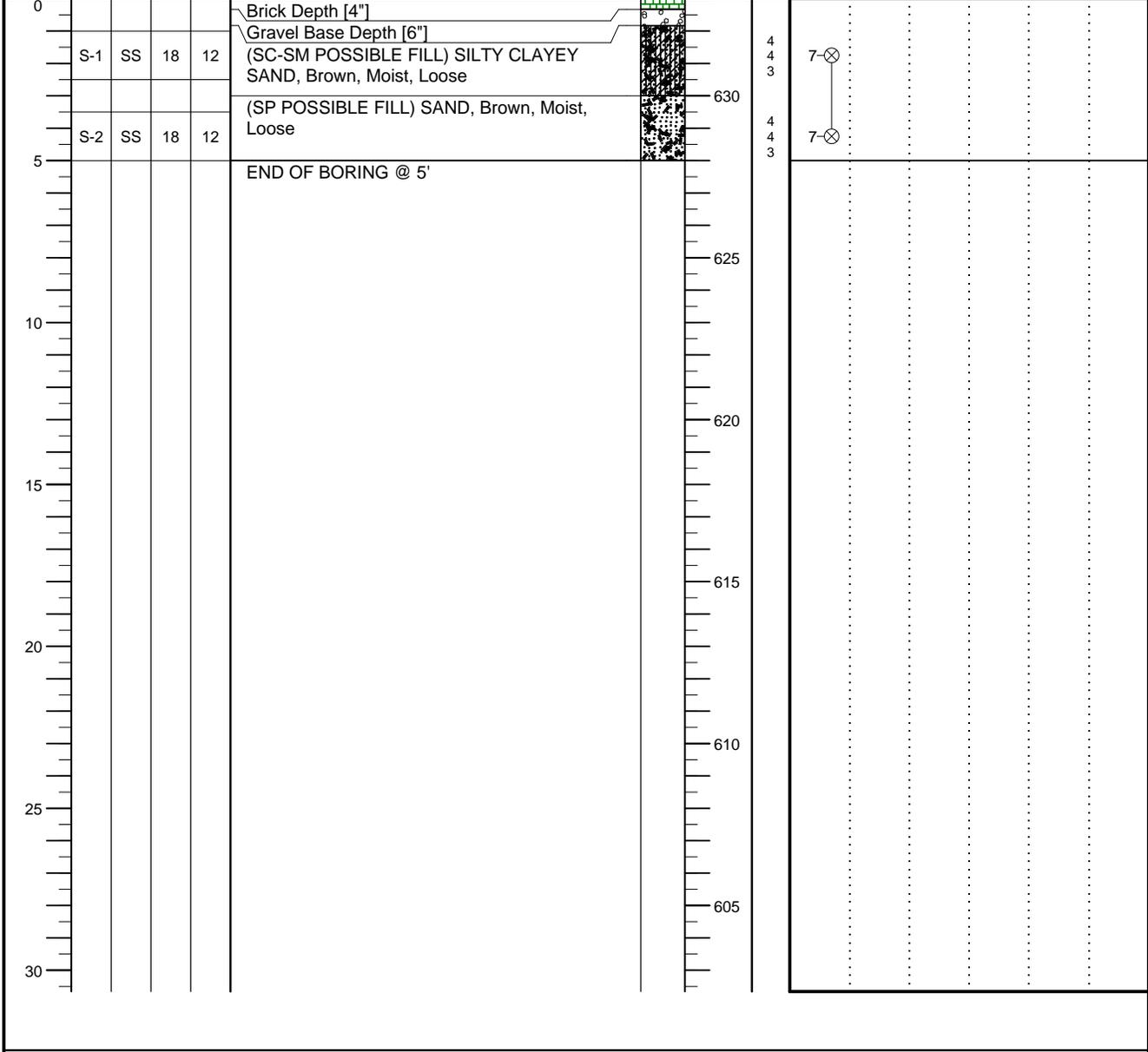
<input checked="" type="checkbox"/> WL	<input type="checkbox"/> WS	<input checked="" type="checkbox"/> WD	BORING STARTED	08/18/16	CAVE IN DEPTH
<input checked="" type="checkbox"/> WL(SHW)	<input checked="" type="checkbox"/> WL(ACR)		BORING COMPLETED	08/19/16	HAMMER TYPE Auto
<input checked="" type="checkbox"/> WL			RIG CME-45	FOREMAN Juan	DRILLING METHOD HSA

CLIENT <b>Village of Wilmette</b>	JOB # <b>16:11572</b>	BORING # <b>B-10</b>	SHEET <b>1 OF 1</b>	
PROJECT NAME <b>Wilmette 2016 Sewer Repair/Valve Replacement &amp; 2017 Brick</b>	ARCHITECT-ENGINEER <b>Village of Wilmette</b>			

SITE LOCATION  
**Various Streets, Wilmette, Cook County, IL**

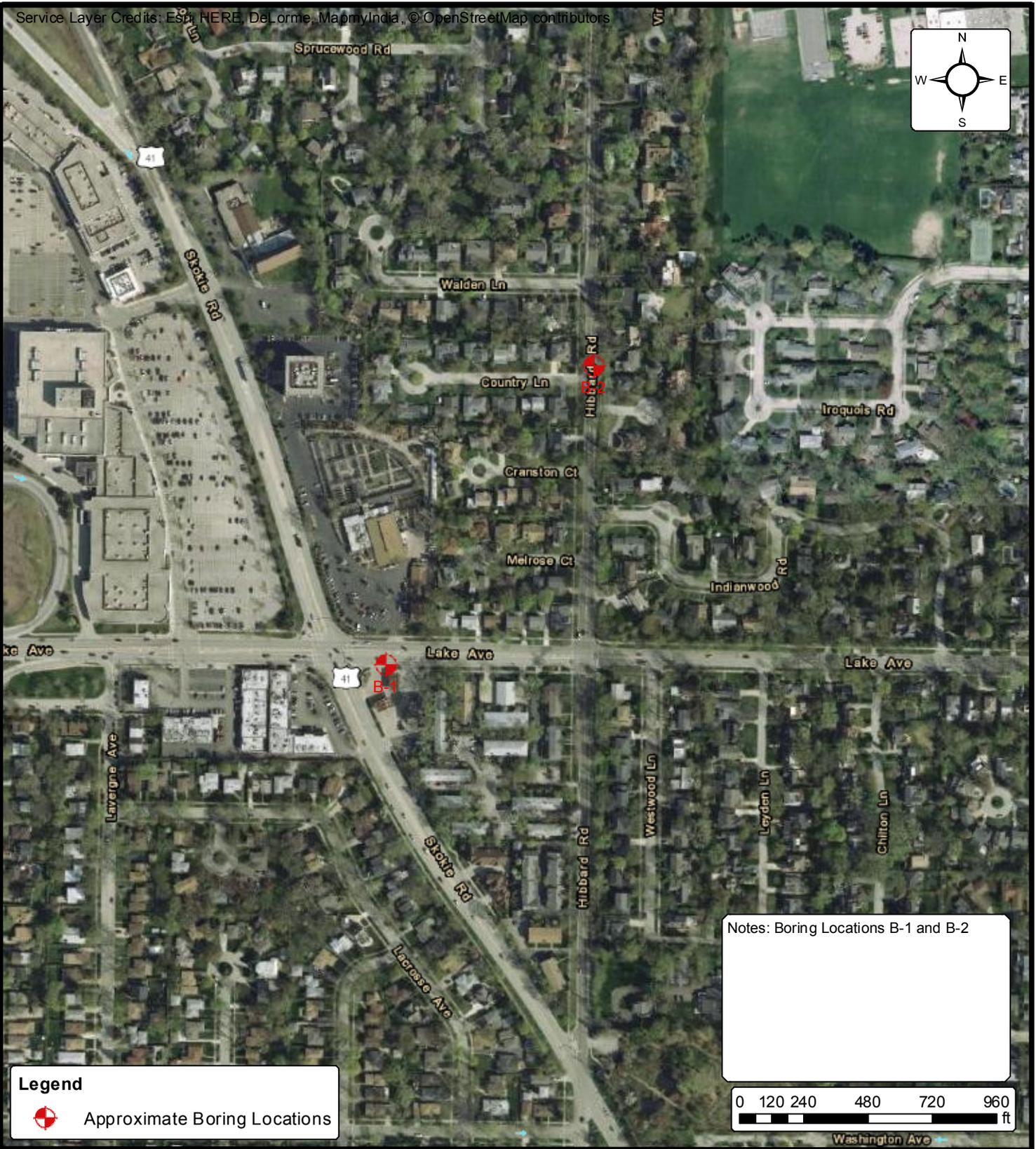
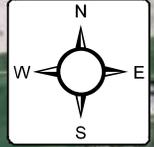
NORTHING <b>42.076023</b>	EASTING <b>-87.722265</b>	STATION
------------------------------	------------------------------	---------

DEPTH (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	ENGLISH UNITS	WATER LEVELS ELEVATION (FT)	BLOWS/6"
					BOTTOM OF CASING	LOSS OF CIRCULATION		
					SURFACE ELEVATION <b>+633 (+/-)</b>			



THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE TRANSITION MAY BE GRADUAL.

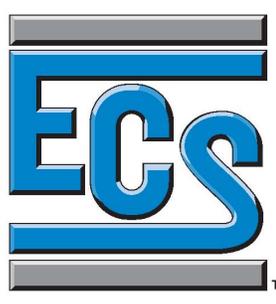
<input checked="" type="checkbox"/> WL	WS <input type="checkbox"/>	WD <input checked="" type="checkbox"/>	BORING STARTED	08/18/16	CAVE IN DEPTH
<input checked="" type="checkbox"/> WL(SHW)	<input checked="" type="checkbox"/> WL(ACR)		BORING COMPLETED	08/19/16	HAMMER TYPE Auto
<input checked="" type="checkbox"/> WL			RIG Truck	FOREMAN Juan	DRILLING METHOD HSA



Notes: Boring Locations B-1 and B-2

**Legend**

 Approximate Boring Locations

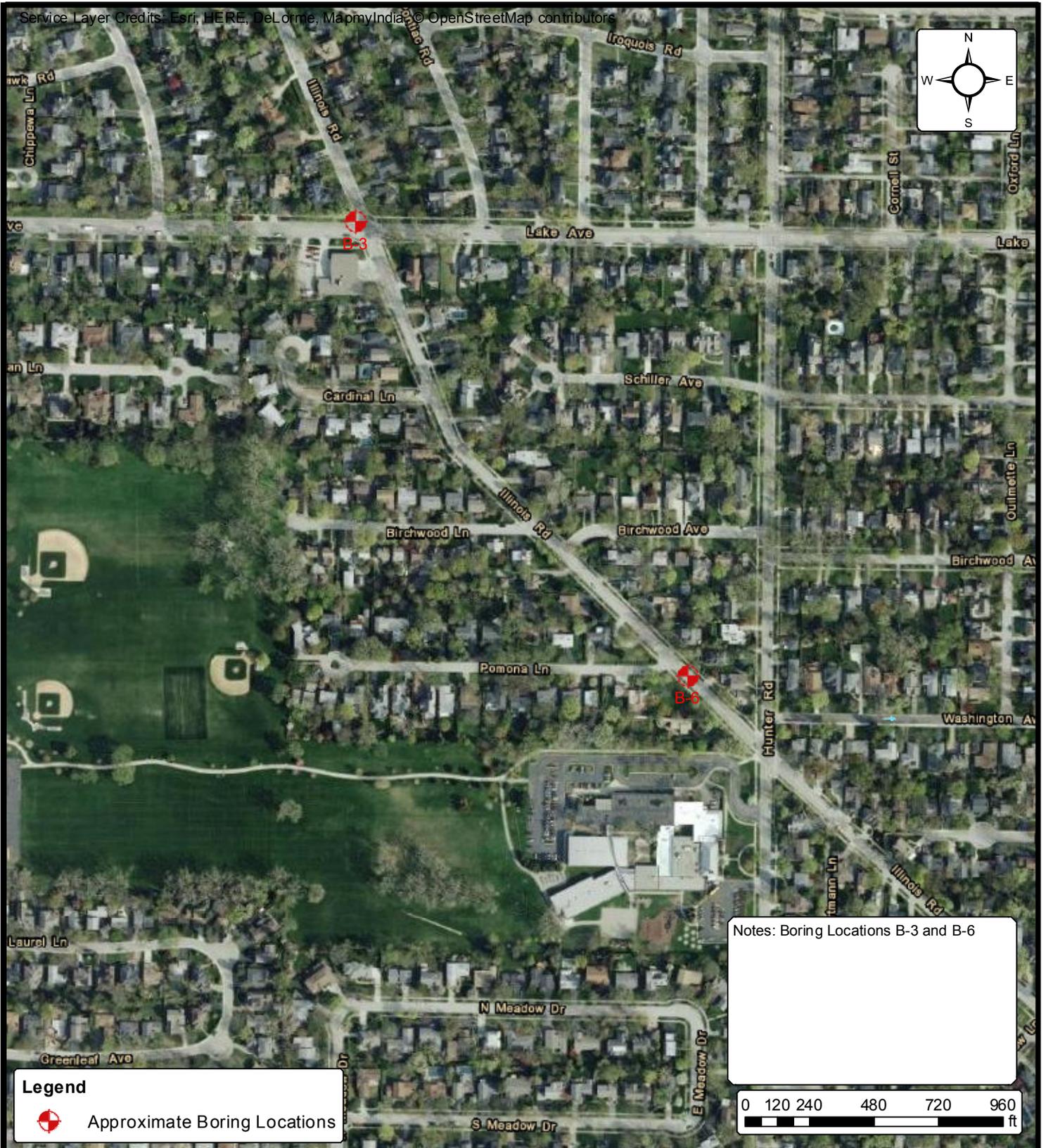
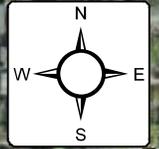


**Boring Location Diagram**

**WILMETTE 2016 SEWER REPAIR/VALVE REPLACEMENT & 2017 BRICK**

VILLAGE OF WILMETTE  
WILMETTE IL 60091-

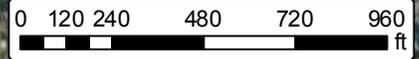
ENGINEER	BMT
SCALE	1" = 500'
PROJECT NO.	11572
SHEET	1 OF 1
DATE	8/25/2016



Notes: Boring Locations B-3 and B-6

**Legend**

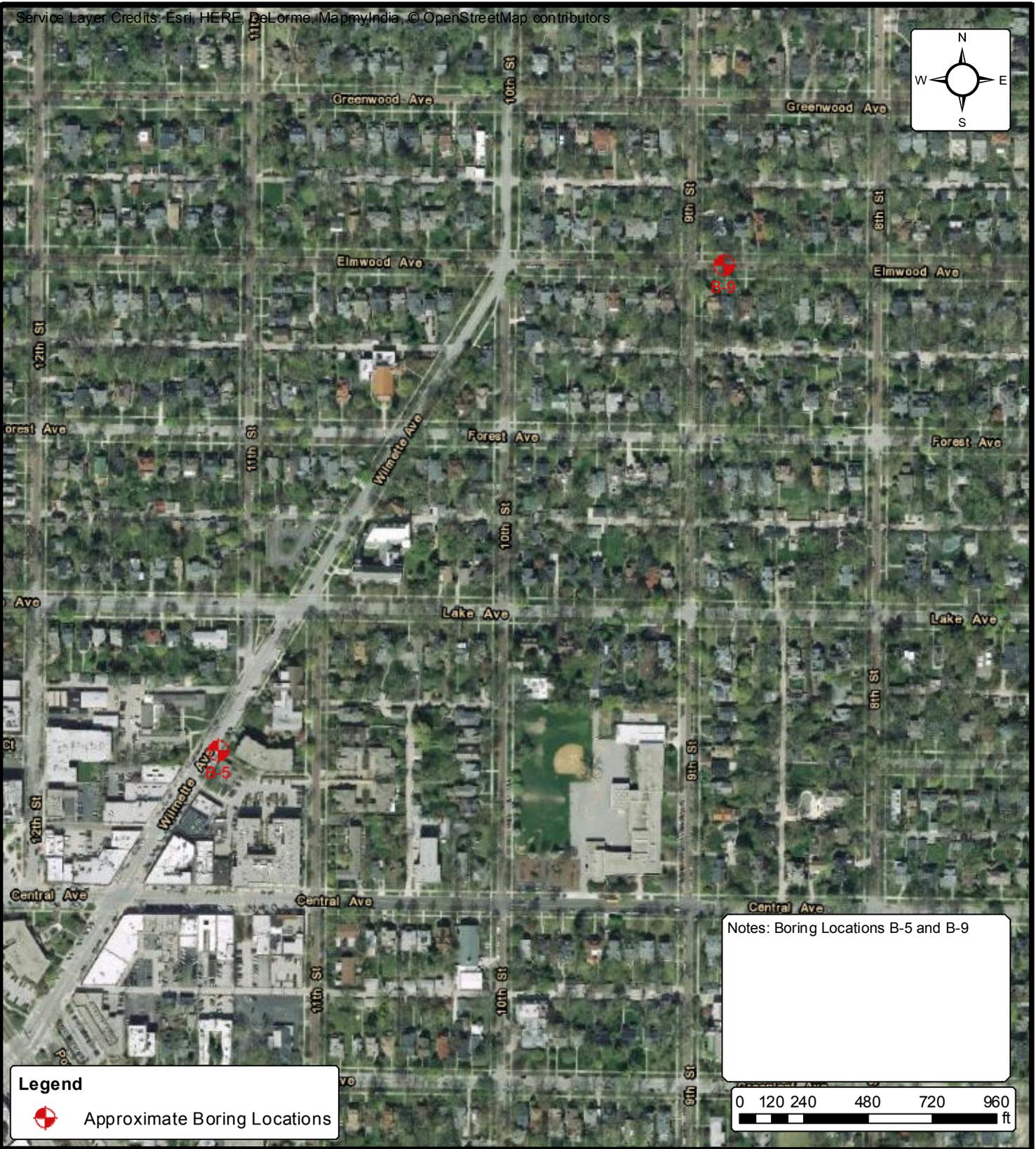
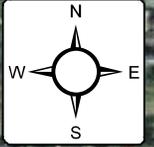
 Approximate Boring Locations



**Boring Location Diagram**  
**WILMETTE 2016 SEWER REPAIR/VALVE REPLACEMENT & 2017 BRICK**

VILLAGE OF WILMETTE  
 WILMETTE IL 60091-

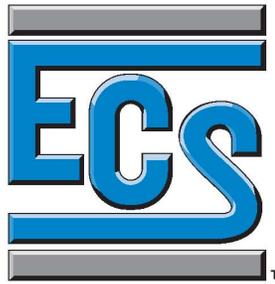
ENGINEER	BMT
SCALE	1" = 500'
PROJECT NO.	11572
SHEET	1 OF 1
DATE	8/25/2016



Notes: Boring Locations B-5 and B-9

**Legend**

 Approximate Boring Locations

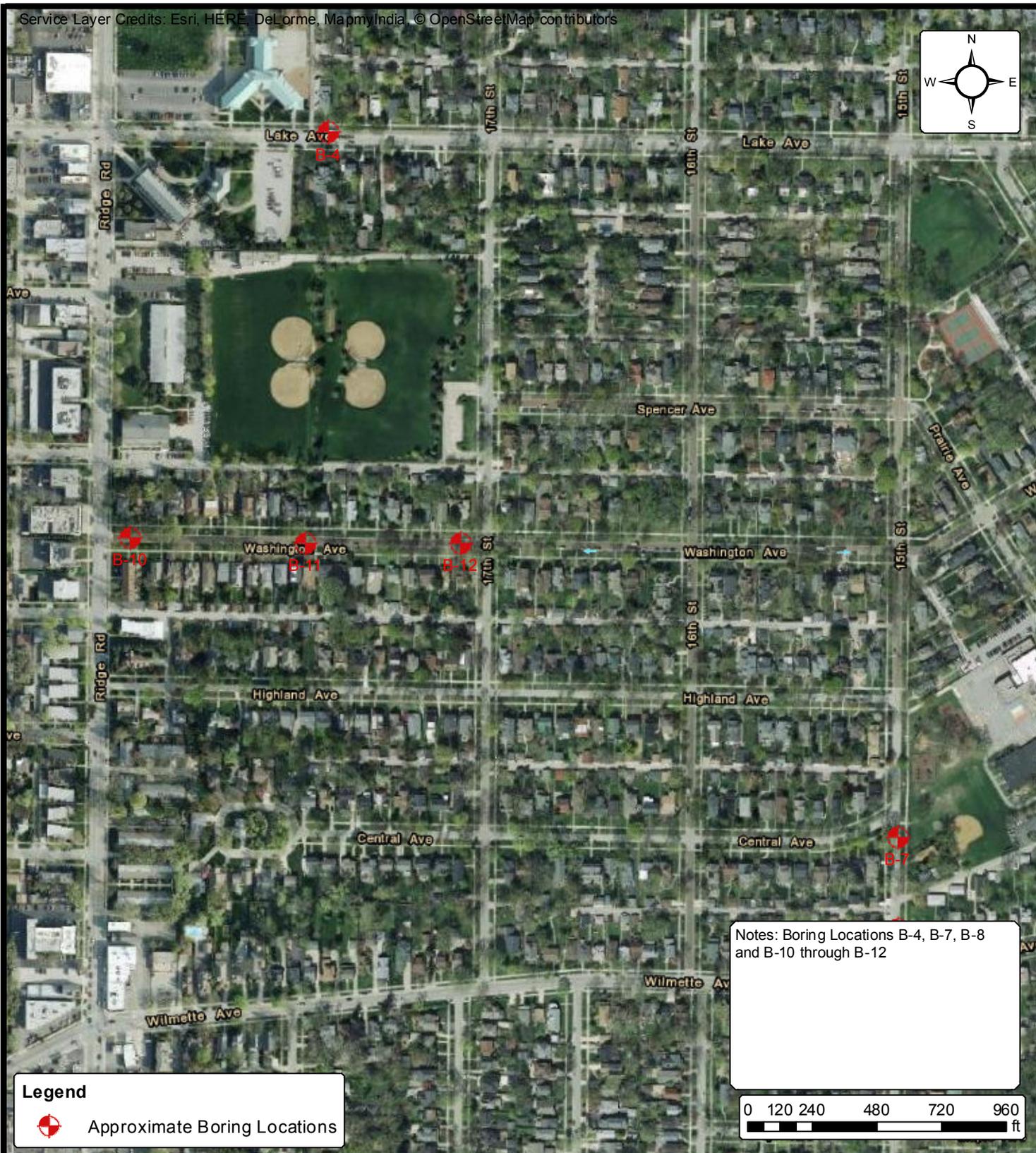
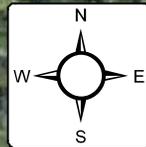


# Boring Location Diagram

## WILMETTE 2016 SEWER REPAIR/VALVE REPLACEMENT & 2017 BRICK

VILLAGE OF WILMETTE  
WILMETTE IL 60091-

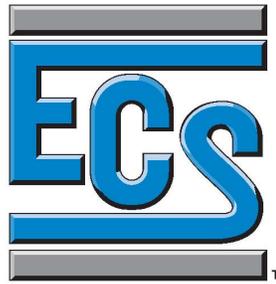
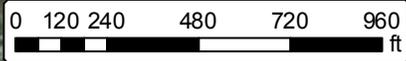
ENGINEER	BMT
SCALE	1" = 500'
PROJECT NO.	11572
SHEET	1 OF 1
DATE	8/25/2016



Notes: Boring Locations B-4, B-7, B-8 and B-10 through B-12

**Legend**

 Approximate Boring Locations



# Boring Location Diagram

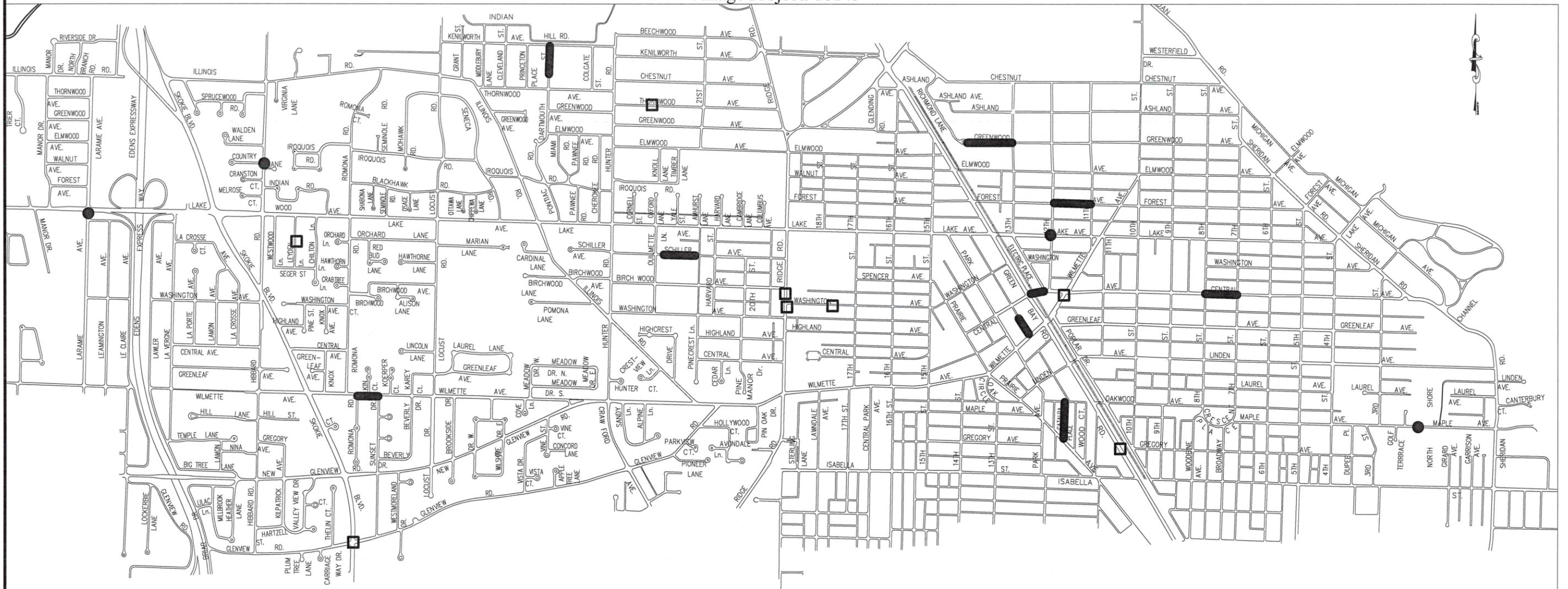
## WILMETTE 2016 SEWER REPAIR/VALVE REPLACEMENT & 2017 BRICK

VILLAGE OF WILMETTE  
WILMETTE IL 60091-

ENGINEER	BMT
SCALE	1" = 500'
PROJECT NO.	11572
SHEET	1 OF 1
DATE	8/25/2016

**ATTACHMENT SIX**  
**Plan Sets**

Village of Wilmette  
 2018 Sewer Repair and Valve Installation Program  
 Village Project: 18145



Sheet	Sheet Title	Sheet	Sheet Title
1	Cover	14	Structure Locations
2	General Notes	15	Structure - Leyden/Thornwood
3	Catalpa	16	Structure - Ridge
4	Catalpa	17	Construction Details
5	Central	18	Construction Details
6	Central	19	Construction Details
7	Dartmouth/Forest	20	TCP Overview
8	Greenwood/Schiller	21	IDOT Standard - 701501-06
9	Wilmette/Illinois	22	IDOT Standard - 701701-10
10	Valve - Hibbard	23	IDOT Standard - 701502-08
11	Valve - Lake and Laramie	24	IDOT Standard - 701606-10
12	Valve - Lake and 12th		
ALT 1	Valve - Maple		

<b>ENGINEERING</b>	847.853.7660	
Director	Dan Manis	847.853.7602
Assistant Director	Jorge Cruz	847.853.7623
<b>Project Manager</b>	<b>Danielle Horn</b>	<b>847.853.7628</b>
<b>PUBLIC WORKS</b>	847.853.7500	
W/S Superintendent	Matt Overeem	847.853.7582
W/S Crew Leader	Joe Conrad	847.853.7590
W/S Crew Leader	Nick Deboer	847.853.7590
W/S Util Tech/Locates	Bill Bagel	847.853.7589
Street Superintendent	Tony Muzik	847.853.7584
Forester	Kevin Sorby	847.853.7600
Forester	Rob Wasley	847.853.7600

	Sewer Repair Locations
	Valve Replacement Locations
	Structure Repair Locations

**VILLAGE OF WILMETTE**  
 Engineering Department  
 1200 Wilmette Avenue  
 Wilmette, IL 60091  
 Tel: 847.853.7660 Fax: 847.853.7701

APPROVED BY:



Exp. Date: 11/30/2019  
 Danielle C. Horn, P.E., Project Manager

**A. GENERAL**

1. THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF WILMETTE (847) 853-7660 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK.
2. THE CONTRACTOR SHALL NOTIFY AS NECESSARY, ALL TESTING AGENCIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION. FAILURE OF CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME WHICH RESULTS IN TESTING COMPANIES BEING UNABLE TO VISIT THE SITE AND PERFORM TESTING WILL CAUSE THE CONTRACTOR TO SUSPEND OPERATION TO BE TESTED UNTIL TESTING AGENCY CAN SCHEDULE TESTING OPERATIONS. COSTS OF SUSPENSION OF WORK TO BE BORNE BY THE CONTRACTOR.
3. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
4. ALL UNBALLASTED TYPE I AND TYPE II BARRICADES SHALL HAVE TWO SANDBAGS ON THE BOTTOM RAIL. ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR (4) SANDBAGS PER BARRICADE.

**B. UTILITIES**

5. THE LOCATION OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THEIR ACCURACY IS NOT GUARANTEED. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACT LOCATION OF SUCH UTILITIES SO AS NOT TO DAMAGE THEM IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR DESTRUCTION OF PUBLIC OR PRIVATE PROPERTY IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 107.20 OF THE "STANDARD SPECIFICATIONS", AND SHALL RESTORE SUCH PROPERTY AT HIS OWN EXPENSE. COORDINATION OF ALL UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT A PRE-CONSTRUCTION CONFERENCE. THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTIVE MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION. IN PARTICULAR, THE CONTRACTOR WILL TAKE ADEQUATE MEASURES TO PREVENT THE UNDERMINING OF UTILITIES AND SEWERS WHICH ARE STILL IN SERVICE.
7. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS AND CABLE TELEVISION FACILITIES IN ACCORDANCE WITH STATE LAW. ADVANCED NOTICE OF 48 HOURS REQUIRED.
8. WHEN IT IS NECESSARY TO SHUT OFF A WATER MAIN, THE CONTRACTOR SHALL PROVIDE THE VILLAGE'S PUBLIC WORK DEPARTMENT (AT 847-853-7500) A MINIMUM 48 HOUR ADVANCE NOTICE.

**C. DRAINAGE**

9. WHENEVER DURING CONSTRUCTION OPERATIONS ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE CLEANED AND FREE FROM DIRT AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO THE CONTRACT.
10. THE CONTRACTOR SHALL CONFIRM ALL EXISTING STORM SEWER PIPE SIZES AND INVERTS PRIOR TO ORDERING STRUCTURES. ANY MODIFICATION OF STRUCTURES DUE TO THE FAILURE OF THE CONTRACTOR TO PERFORM THIS TASK SHALL BE AT THE CONTRACTOR'S EXPENSE AND MAY LEAD TO THE REJECTION OF THE STRUCTURE IN THE FIELD.
11. ALL FRAMES WITH CLOSED LIDS TO BE FURNISHED AS PART OF THIS CONTRACT FOR CONSTRUCTION, ADJUSTMENT OR RECONSTRUCTION OF ANY VALVE VAULT, MANHOLE, OR CATCH BASIN SHALL HAVE THE WORD "WATER", "COMBINED", "SANITARY", OR "STORM", AS APPROPRIATE, CAST INTO THE LID.
12. FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. WHEN LOCATED WITHIN THE CURB LINE, FRAME ELEVATION GIVEN REFLECT THE EDGE OF PAVEMENT ELEVATIONS. ALL OTHER FRAME ELEVATIONS ARE GIVEN AT THE CENTER. FRAMES ON ALL NEW STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE COST.
13. ALL EXISTING FRAMES, GRATES, AND LIDS THAT ARE BEING REPLACED REMAIN THE PROPERTY OF THE VILLAGE OF WILMETTE. THE CONTRACTOR SHALL STOCKPILE AT ONE LOCATION AS DESIGNATED BY THE ENGINEER AT EACH PROJECT SITE FOR PICK UP BY THE VILLAGE PUBLIC WORKS AND THIS WORK SHALL BE CONSIDERED AS INCLUDED TO THE CONTRACT.
14. ADJUSTMENT RINGS, MAXIMUM OF 11" IN HEIGHT, WILL BE ALLOWED IN THE ADJUSTMENT OF CATCH BASIN, MANHOLE, INLET AND VALVE VAULT STRUCTURES. COMMON BRICK WILL NOT BE ALLOWED. THE RINGS SHALL BE INCLUDED IN THE CONTRACT.
15. THE CONTRACTOR SHALL BE AWARE THAT THERE ARE EXISTING LAWN SPRINKLER SYSTEMS LOCATED IN PUBLIC RIGHT-OF-WAY. IF A SPRINKLER SYSTEM IS LOCATED BETWEEN THE EXISTING SIDEWALK AND THE PROPOSED BACK OF CURB, PROTECTION OF SYSTEM SHALL BE CONSIDERED INCLUDED IN THE CONTRACT.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK INVOLVING THE SPRINKLER SYSTEMS WITH THE OWNERS. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL OF ANY RELOCATIONS OR REPAIRS FROM THE OWNERS PRIOR TO FINAL PAYMENT.

**D. MISCELLANEOUS**

17. PAY ITEMS IN THE SUMMARY OF QUANTITIES HAVE BEEN ESTIMATED. IF, IN THE ENGINEER'S OPINION, THE WORK IS NOT REQUIRED, THE ITEM WILL BE DEDUCTED FROM THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. PAYMENT WILL BE MADE ONLY FOR THE ACTUAL WORK COMPLETED.
18. THE CONTRACTOR WILL BE REQUIRED TO DISPOSE OF ALL SIDEWALK, CURB AND GUTTER, PAVEMENT, AND ALL OTHER MATERIAL EXCAVATED OR REMOVED DUE TO CONSTRUCTION OPERATIONS, AT HIS EXPENSE. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE ON THE DAY IT IS EXCAVATED. NO PAYMENT WILL BE MADE FOR HAULING OR TRUCKING MATERIAL TO A LOCATION, PROVIDED BY THE CONTRACTOR, OUTSIDE THE LIMITS OF THE IMPROVEMENT, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

MWRD General Notes

**A. REFERENCED SPECIFICATIONS**

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:  
 \* STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;  
 \* STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;  
 \* VILLAGE OF WILMETTE MUNICIPAL CODE;  
 \* THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;  
 \* IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

**B. SANITARY SEWER**

1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
3. DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.
4. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
6. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
7. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

<u>PIPE MATERIAL</u>	<u>PIPE SPECIFICATIONS</u>	<u>JOINT SPECIFICATIONS</u>
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE 6-INCH TO 15-INCH DIAMETER SDR 26 18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM D-3034 ASTM F-679	ASTM D-3212 ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350 ASTM D-3035	ASTM D-3261,F-2620 (HEAT FUSION) ASTM D-3212,F-477 (GASKETED)
WATER MAIN QUALITY PVC 4-INCH TO 36-INCH 4-INCH TO 12-INCH 14-INCH TO 48-INCH	ASTM D-2241 AWWA C900 AWWA C905	ASTM D-3139 ASTM D-3139 ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL                      PIPE SPECIFICATIONS                      JOINT SPECIFICATIONS

- POLYPROPYLENE (PP) PIPE
- |                                |             |               |
|--------------------------------|-------------|---------------|
| 12-INCH TO 24-INCH DOUBLE WALL | ASTM F-2736 | D-3212, F-477 |
| 30-INCH TO 60-INCH TRIPLE WALL | ASTM F-2764 | D3212, F-477  |
8. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE ¼ " TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO ¼ THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.
  9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.
  10. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.
  11. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:  
 a) A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.  
 b) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.  
 c) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
  12. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMANS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
  13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
  14. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
  15. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.
  16. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
  17. EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.
  18. A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

VILLAGE OF WILMETTE  
Engineering Department

2018 Sewer Repair and  
Valve Installation Program

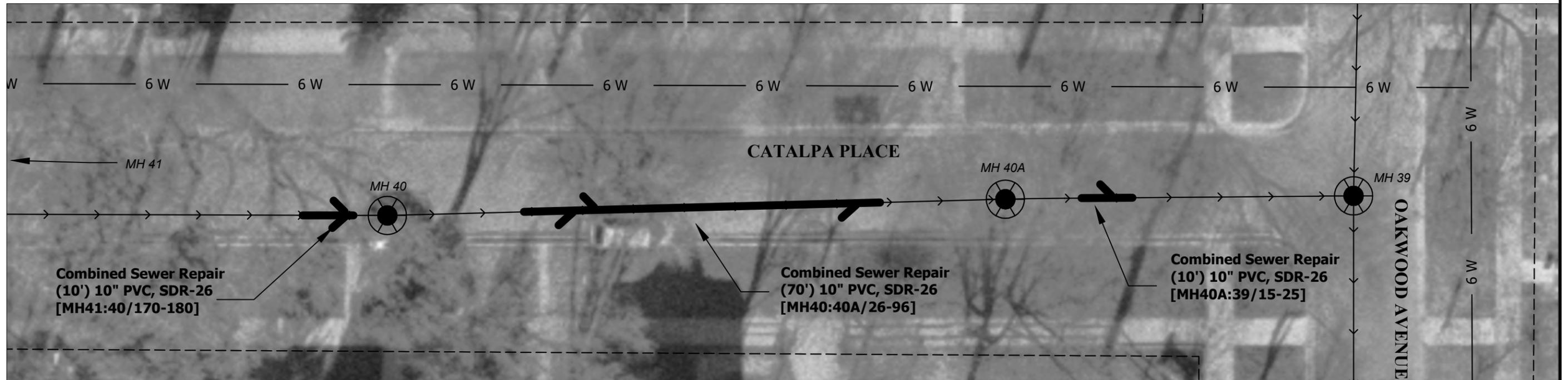
**GENERAL NOTES**

**Sheet Information:**

Scale: NTS	Date: Jun 2018
Designed By: DH	Checked By: Staff
Revision: 6.13.2018	

**SHEET**

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EXISTING TREES AND SHRUBS NOT IDENTIFIED ON THE PLANS FOR REMOVAL ARE TO BE PROTECTED. SHRUB AND LANDSCAPE REMOVAL IS INCIDENTAL TO THE SEWER REPAIRS.

REMOVAL AND REPLACEMENT OF SIGNS OR POLES THAT NEED TO BE RELOCATED TEMPORARILY FOR CONSTRUCTION ACCESS ARE INCIDENTAL TO THE BID AND SHALL NOT BE PAID AS A SEPARATE ITEM. ALL SIGNS, POLES, AND OTHER STRUCTURES ARE TO BE PROTECTED.

ALL BRICK REMOVED TO BE CLEANED, PALLETIZED, AND DELIVERED TO PUBLIC WORKS YARD.

Street	MH to MH	Pipe Size/Type	Average Depth(FT)	Length of Repair (FT)	Service(s)	Pavement	Patch	TBF
Catalpa Pl	41-40	10" PVC, SDR-26 [ASTM D-3034]/ JOINT ASTM D-3212	7	10	2	4" Brick Street	Temporary Asphalt (Cold Patch)	CA-6 Gradation
<b>Total</b>				<b>10</b>	<b>2</b>			
Street	MH to MH	Pipe Size/Type	Average Depth(FT)	Length of Repair (FT)	Service(s)	Pavement	Patch	TBF
Catalpa Pl	40-40A	10" PVC, SDR-26 [ASTM D-3034]/ JOINT ASTM D-3212	7	70	3	4" Brick Street	Temporary Asphalt (Cold Patch)	CA-6 Gradation
<b>Total</b>				<b>70</b>	<b>3</b>			
Street	MH to MH	Pipe Size/Type	Average Depth(FT)	Length of Repair (FT)	Service(s)	Pavement	Patch	TBF
Catalpa Pl	40A-39	10" PVC, SDR-26 [ASTM D-3034]/ JOINT ASTM D-3212	8	10	1	4" Brick Street	Temporary Asphalt (Cold Patch)	CA-6 Gradation
<b>Total</b>				<b>10</b>	<b>1</b>			

Scale: 1:20

LEGEND	
	Sanitary / Combined Sewer
	Storm Sewer
	Watermain
	Existing MH
	Sewer Service
	Sewer Repair Locations

VILLAGE OF WILMETTE  
Engineering Department

Tel: 847.853.7660

Fax: 847.853.7701

Wilmette Project No: 18145

2018 Sewer Repair and  
Valve Installation Program

Catalpa Place  
(40-39)  
Existing and Proposed Conditions

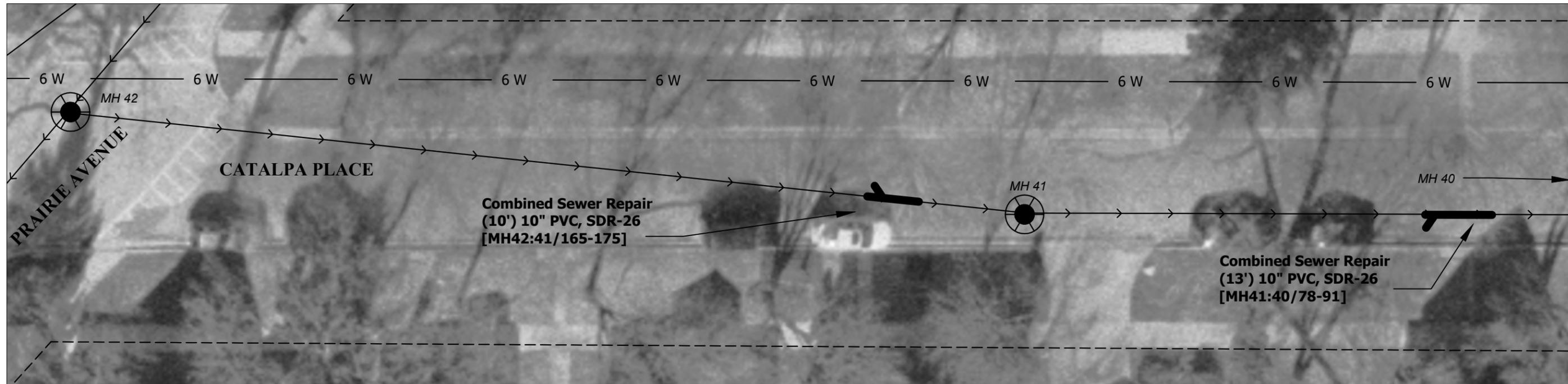
Sheet Information:

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Designed By: DH Checked By: Staff  
Revision: 6.13.2018

SHEET

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Street	MH to MH	Pipe Size/Type	Average Depth(FT)	Length of Repair (FT)	Service(s)	Pavement	Patch	TBF
Catalpa Pl	42-41	10" PVC, SDR-26 [ASTM D-3034]/ JOINT ASTM D-3212	7	10	1	4" Brick Street	Temporary Asphalt (Cold Patch)	CA-6 Gradation
<b>Total</b>				<b>10</b>	<b>1</b>			
Street	MH to MH	Pipe Size/Type	Average Depth(FT)	Length of Repair (FT)	Service(s)	Pavement	Patch	TBF
Catalpa Pl	41-40	10" PVC, SDR-26 [ASTM D-3034]/ JOINT ASTM D-3212	7	13	1	4" Brick Street	Temporary Asphalt (Cold Patch)	CA-6 Gradation
<b>Total</b>				<b>13</b>	<b>1</b>			

Scale: 1:20

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**LEGEND**

- Sanitary / Combined Sewer
- Storm Sewer
- 8 W Watermain
- Existing MH
- Sewer Service
- Sewer Repair Locations

VILLAGE OF WILMETTE  
Engineering Department

2018 Sewer Repair and  
Valve Installation Program

Catalpa Street  
(42-41)

Existing and Proposed Conditions

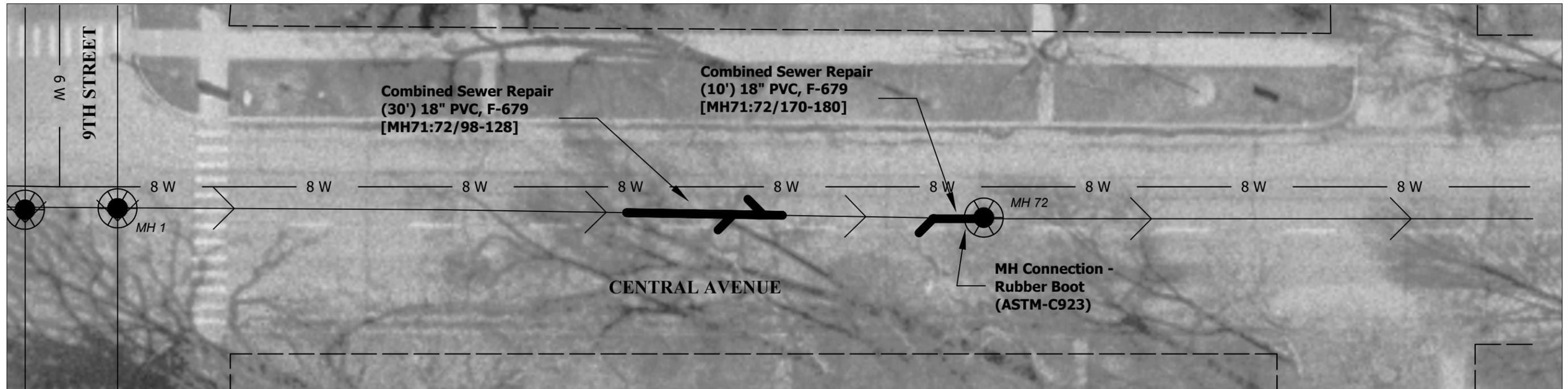
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**SHEET**

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Street	MH to MH	Pipe Size/Type	Average Depth(FT)	Length of Repair (FT)	Service(s)	Pavement	Patch	TBF	Comments
Central	1-72	18" PVC [ASTM F-679]/ JOINT ASTM D-3212	12	30	2	HMA Surface / PCC Base	2" HMA Surface/8" PCC Base	CA-6 Gradation	
Central	1-72	18" PVC [ASTM F-679]/ JOINT ASTM D-3212	12	8	1	HMA Surface / PCC Base	2" HMA Surface/8" PCC Base	CA-6 Gradation	MH Connection - Rubber Boot (ASTM-C923)
<b>Total</b>				<b>38</b>	<b>3</b>				

Scale: 1:20

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LEGEND	
	Combined Sewer
	Storm Sewer
	Watermain
	Existing Combined MH
	Sewer Service
	Sewer Repair Locations

VILLAGE OF WILMETTE  
Engineering Department

2018 Sewer Repair and  
Valve Installation Program

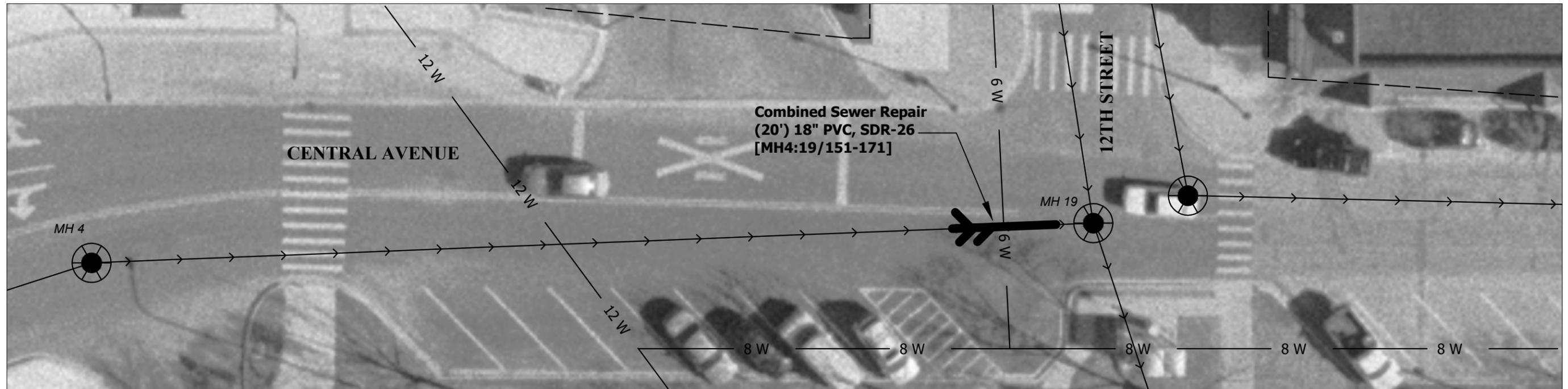
Central Avenue  
(1-72)  
Existing and Proposed Conditions

Sheet Information:

Scale: Varies Date: Jun 2018  
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Revision: 6.13.2018

SHEET

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24



Street	MH to MH	Pipe Size/Type	Average Depth(FT)	Length of Repair (FT)	Service(s)	Pavement	Patch	TBF
Central Ave	4-19	18" PVC [ASTM F-679]/ JOINT ASTM D-3212	10	20	3	HMA Surface / PCC Base	2" HMA Surface/8" PCC Base	CA-6 Gradation
<b>Total</b>				<b>20</b>	<b>3</b>			

Scale: 1:20

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**LEGEND**

- Combined Sewer
- Storm Sewer
- Watermain
- Existing Sanitary MH
- Sewer Service
- Sewer Repair Locations

VILLAGE OF WILMETTE  
Engineering Department

2018 Sewer Repair and  
Valve Installation Program

Central Avenue  
(4-19)  
Existing and Proposed Conditions

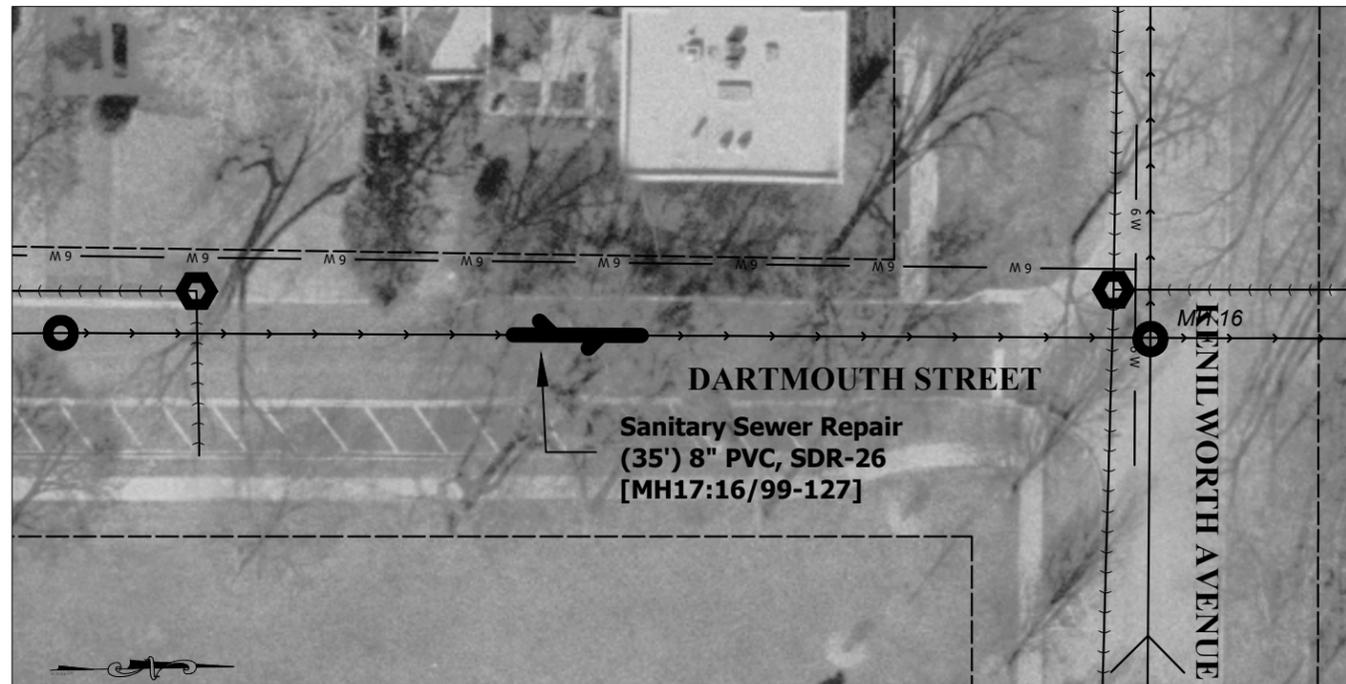
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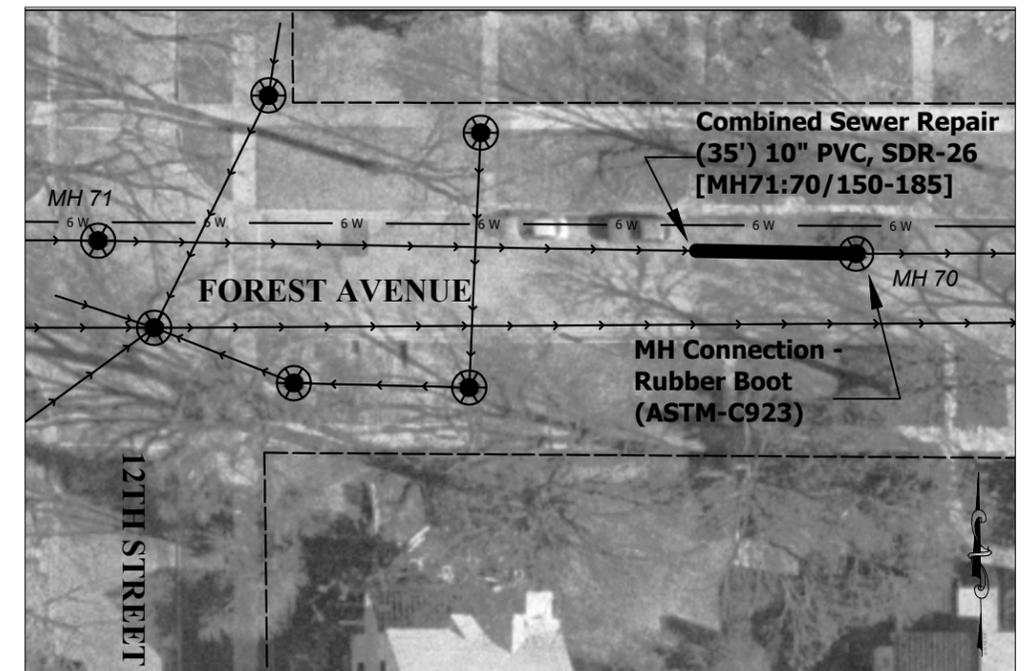
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**DARTMOUTH STREET**



**FOREST AVENUE**



Street	MH to MH	Pipe Size/Type	Average Depth(FT)	Length of Repair (FT)	Service(s)	Pavement	Patch	TBF
Dartmouth St	17-16	8" PVC, SDR-26 [ASTM D-3034]/ JOINT ASTM D-3212	7	35	2	HMA Surface / PCC Base	2" HMA Surface/8 " PCC Base	CA-6 Gradation
<b>Total</b>				<b>35</b>	<b>2</b>			

Street	MH to MH	Pipe Size/Type	Average Depth(FT)	Length of Repair (FT)	Service(s)	Pavement	Patch	TBF	Comments
Forest Ave	71-70	18" PVC [ASTM F-679]/ JOINT ASTM D-3212	7	35	0	HMA Surface / 4" Brick	2"HMA Surface/5"HMA Binder	CA-6 Gradation	MH Connection - Rubber Boot (ASTM-C923)
<b>Total</b>				<b>35</b>	<b>0</b>				

Scale: 1:40

EXISTING TREES AND SHRUBS NOT IDENTIFIED ON THE PLANS FOR REMOVAL ARE TO BE PROTECTED. SHRUB AND LANDSCAPE REMOVAL IS INCIDENTAL TO THE SEWER REPAIRS.

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**LEGEND**

- Sanitary / Combined Sewer
- Storm Sewer
- Watermain
- Existing Sanitary MH
- Existing Storm MH
- Sewer Service
- Sewer Repair Locations

**VILLAGE OF WILMETTE**  
Engineering Department

Tel: 847.853.7660

Fax: 847.853.7701

Wilmette Project No: 18145

2018 Sewer Repair and  
Valve Installation Program

**Dartmouth Street and Forest Avenue**

Existing and Proposed Conditions

**Sheet Information:**

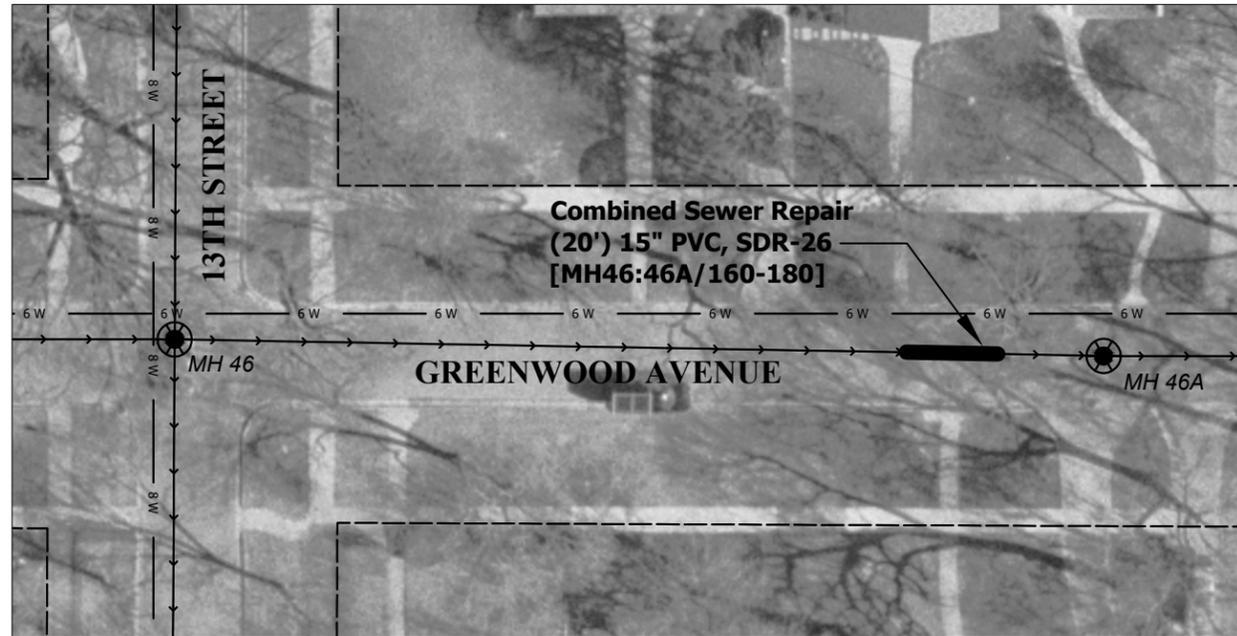
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Revision: 6.13.2018	

**SHEET**

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**GREENWOOD AVENUE**



**SCHILLER AVENUE**



Street	MH to MH	Pipe Size/Type	Average Depth(FT)	Length of Repair (FT)	Service(s)	Pavement	Patch	TBF
Greenwood Ave	46-46A	15" PVC [ASTM SDR-26]/ JOINT ASTM D-3212	7	20	0	4" Brick Street	4" Brick / 2" Sand Bedding	CA-6 Gradation
<b>Total</b>				<b>20</b>	<b>0</b>			

Street	MH to MH	Pipe Size/Type	Average Depth(FT)	Length of Repair (FT)	Service(s)	Pavement	Patch	TBF
Schiller Ave	28-27	8" PVC, SDR-26 [ASTM D-3034]/ JOINT ASTM D-3212	6	20	0	5" HMA	2" HMA Surface/ 3" HMA Binder	CA-6 Gradation
<b>Total</b>				<b>20</b>	<b>0</b>			

EXISTING TREES AND SHRUBS NOT IDENTIFIED ON THE PLANS FOR REMOVAL ARE TO BE PROTECTED. SHRUB AND LANDSCAPE REMOVAL IS INCIDENTAL TO THE SEWER REPAIRS.

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Scale: 1:40

**LEGEND**

- Combined Sewer
- Storm Sewer
- 8 W Watermain
- Existing Sanitary MH
- Sewer Service
- Sewer Repair Locations

**VILLAGE OF WILMETTE**  
Engineering Department

Tel: 847.853.7660

Fax: 847.853.7701

Wilmette Project No: 18145

2018 Sewer Repair and  
Valve Installation Program

**Greenwood Avenue and Schiller Avenue**

Existing and Proposed Conditions

**Sheet Information:**

Scale: Varies

Date: Jun 2018

Designed By: DH

Checked By: Staff

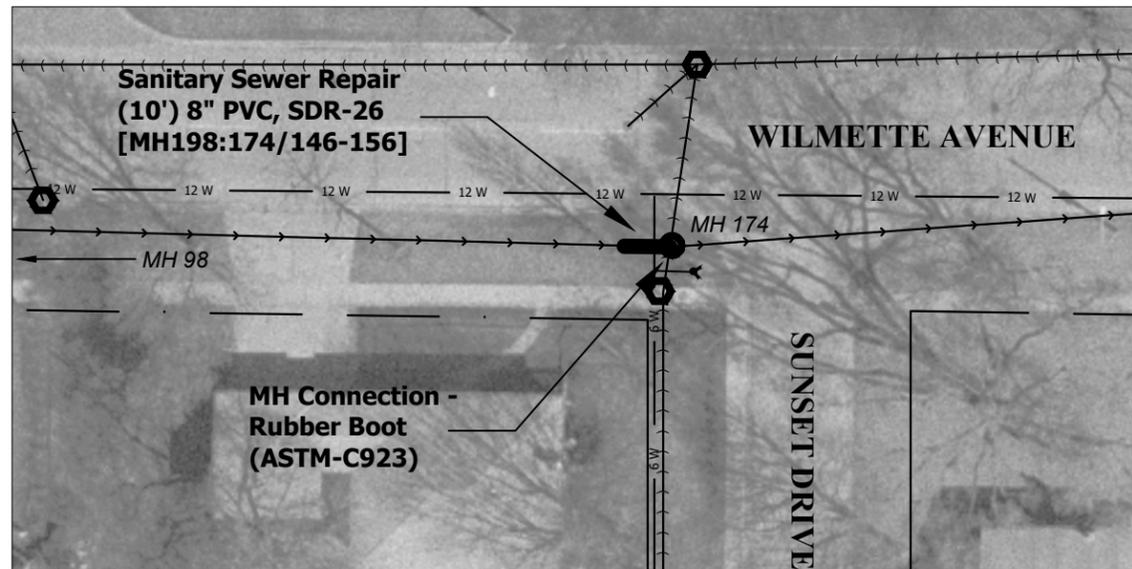
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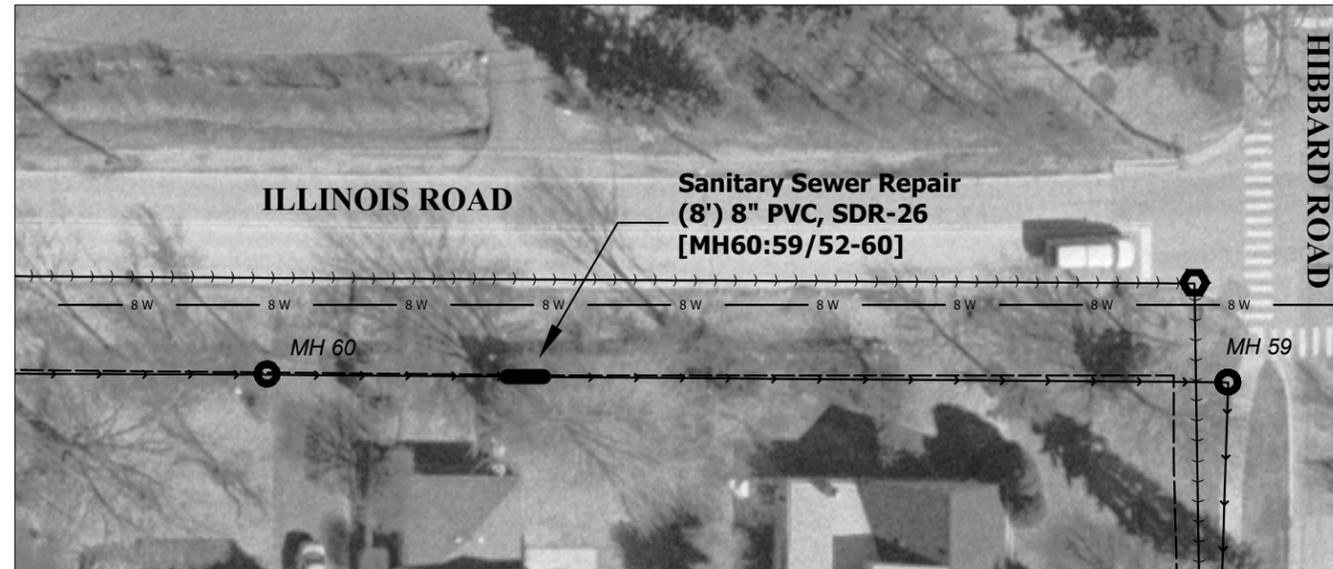
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**WILMETTE AVENUE**



**ILLINOIS ROAD**



Street	MH to MH	Pipe Size/Type	Average Depth(FT)	Length of Repair (FT)	Service(s)	Pavement	Patch	TBF	Comments
Wilmette Ave	198-174	10" PVC, SDR-26 [ASTM D-3034]/ JOINT ASTM D-3212	11	10	0	Parkway		CA-6 Gradation	MH Connection - Rubber Boot (ASTM-C923)
<b>Total</b>				<b>10</b>	<b>0</b>				

Street	MH to MH	Pipe Size/Type	Average Depth(FT)	Length of Repair (FT)	Service(s)	Pavement	Patch	TBF
Illinois Rd	59-60	8" PVC, SDR-26 [ASTM D-3034]/ JOINT ASTM D-3212	8	9	0	Parkway		CA-6 Gradation
<b>Total</b>				<b>9</b>	<b>0</b>			

Scale: 1:40

EXISTING TREES AND SHRUBS NOT IDENTIFIED ON THE PLANS FOR REMOVAL ARE TO BE PROTECTED. SHRUB AND LANDSCAPE REMOVAL IS INCIDENTAL TO THE SEWER REPAIRS.

REMOVAL AND REPLACEMENT OF SIGNS OR POLES THAT NEED TO BE RELOCATED TEMPORARILY FOR CONSTRUCTION ACCESS ARE INCIDENTAL TO THE BID AND SHALL NOT BE PAID AS A SEPARATE ITEM. ALL SIGNS, POLES, AND OTHER STRUCTURES ARE TO BE PROTECTED.

THE VILLAGE OF WILMETTE HAS APPLIED FOR AN COOK COUNTY HIGHWAY DEPARTMENT (CCHD) PERMIT FOR THE WORK ON ILLINOIS ROAD.

THE CONTRACTOR SHALL OBTAIN ALL **BONDS AND INSURANCE** AS REQUIRED BY CCHD FOR THIS PERMIT FOR WORK ON ILLINOIS ROAD. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE BID PROPOSAL; NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**LEGEND**

- Sanitary / Combined Sewer
- Storm Sewer
- Watermain
- Existing Sanitary MH
- Existing Storm MH
- Sewer Service
- Existing Hydrant
- Sewer Repair Locations

**VILLAGE OF WILMETTE**  
Engineering Department

2018 Sewer Repair and  
Valve Installation Program

**Wilmette Avenue and Illinois Road**

Existing and Proposed Conditions

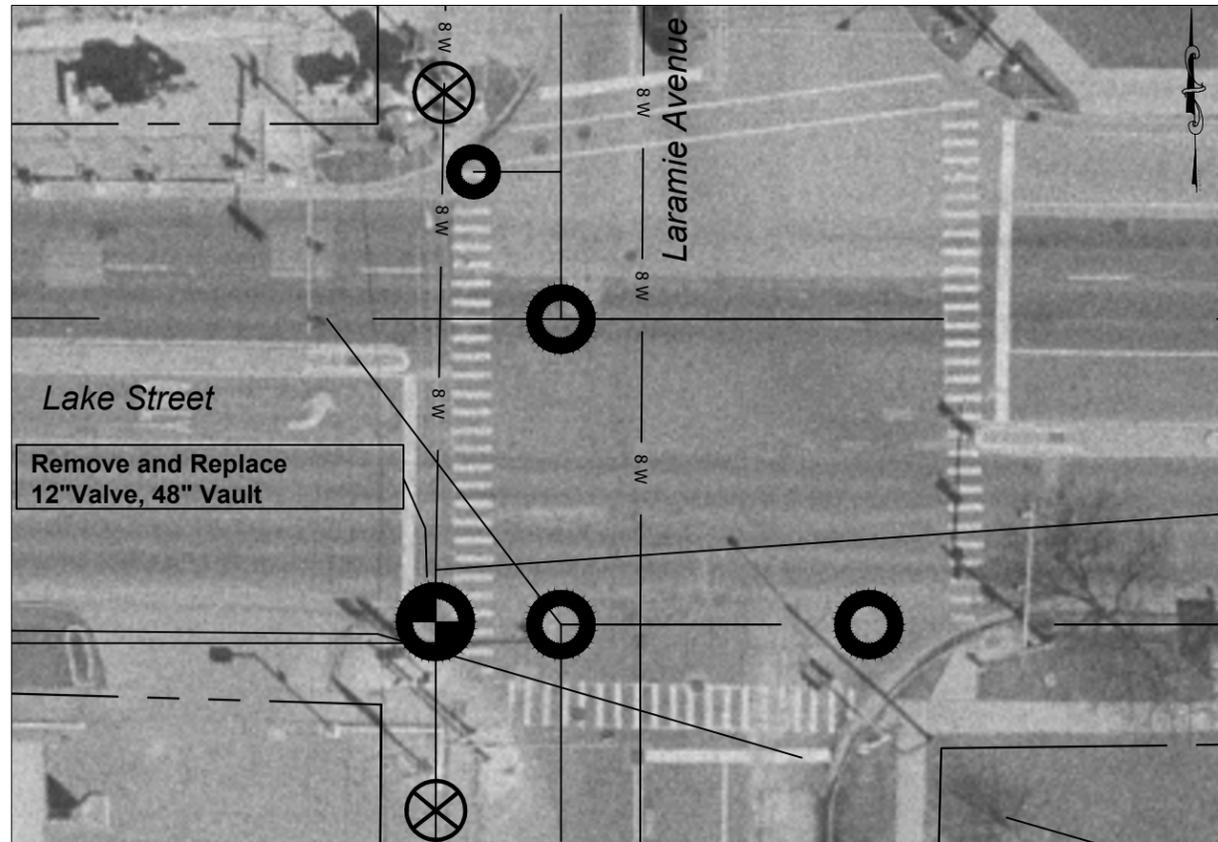
**Sheet Information:**

Scale: Varies	Date: Jun 2018
Designed By: DH	Checked By: Staff
Revision: 6.13.2018	

**SHEET**

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EXISTING TREES AND SHRUBS NOT IDENTIFIED ON THE PLANS FOR REMOVAL ARE TO BE PROTECTED.

REMOVAL AND REPLACEMENT OF SIGNS OR POLES THAT NEED TO BE RELOCATED TEMPORARILY FOR CONSTRUCTION ACCESS ARE INCIDENTAL TO THE BID AND SHALL NOT BE PAID AS A SEPARATE ITEM. ALL SIGNS, POLES, AND OTHER STRUCTURES ARE TO BE PROTECTED.

THE VILLAGE OF WILMETTE HAS APPLIED FOR AN COOK COUNTY DEPARTMENT OF TRANSPORTATION (?????????) PERMIT FOR THE WORK ON LAKE STREET.

THE CONTRACTOR SHALL OBTAIN ALL **BONDS AND INSURANCE** AS REQUIRED BY ?????? FOR THIS PERMIT FOR WORK ON LAKE STREET. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE BID PROPOSAL; NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**Valve Replacement Restrictions**

- Water Shut-off times are from 8:30AM to 3:30PM (unless otherwise specified)
- Water must be restored by 3:30PM
- Contractor can install a maximum of two (2) valves per day.
- Under no condition shall the CONTRACTOR operate any Village valves or hydrants. The CONTRACTOR shall notify the ENGINEER at least 48 hours prior to beginning any construction requiring water main shutdowns. The CONTRACTOR shall coordinate all water main shut downs with the ENGINEER. The Water & Sewer Department will be responsible for all main shut downs.

LEGEND	
	Cable Utility
	Electric Utility
	Watermain
	Line Stop
	Proposed Valve & Vault
	Existing Valve & Vault
	Existing Hydrant
	Ex. Sanitary Sewer MH
	Ex. Storm Sewer MH

Street	Size	Installation	Pavement	Patch
Lake Street and Laramie Avenue	8" Cast Iron	8" Valve/Vault	4.25" HMA Surface / 9.25" PCC Base	2.5" HMA Surface/ 2" HMA Binder / 9" PCC Base /Curb

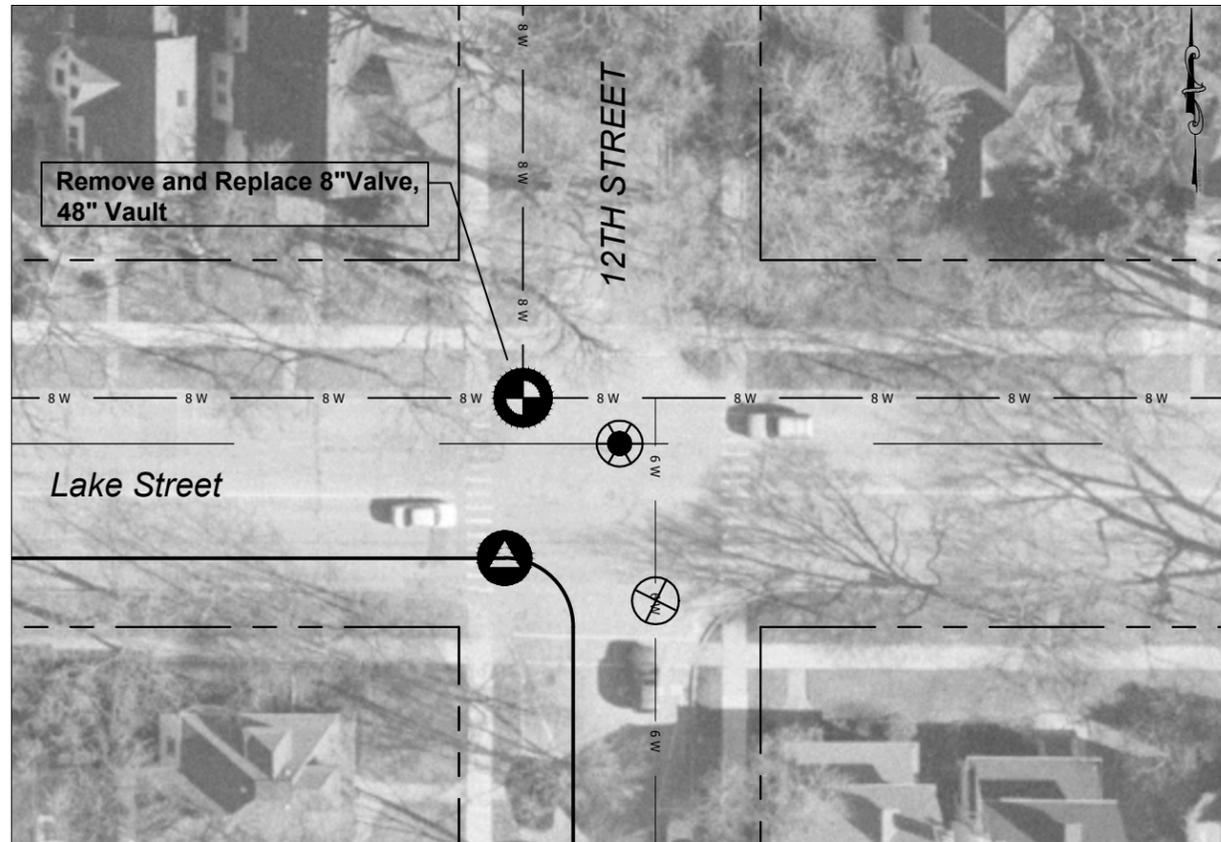
VILLAGE OF WILMETTE  
Engineering Department

2018 Sewer Repair and  
Valve Installation Program

Valve Replacement  
Lake St. and Laramie Ave.  
  
Existing and Proposed Conditions

Sheet Information:	
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Designed By: DH	Checked By: Staff
Revision: 6.13.2018	

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EXISTING TREES AND SHRUBS NOT IDENTIFIED ON THE PLANS FOR REMOVAL ARE TO BE PROTECTED.

REMOVAL AND REPLACEMENT OF SIGNS OR POLES THAT NEED TO BE RELOCATED TEMPORARILY FOR CONSTRUCTION ACCESS ARE INCIDENTAL TO THE BID AND SHALL NOT BE PAID AS A SEPARATE ITEM. ALL SIGNS, POLES, AND OTHER STRUCTURES ARE TO BE PROTECTED.

**Valve Replacement Restrictions**

- Water Shut-off times are from 8:30AM to 3:30PM (unless otherwise specified)
- Water must be restored by 3:30PM
- Contractor can install a maximum of two (2) valves per day.
- Under no condition shall the CONTRACTOR operate any Village valves or hydrants. The CONTRACTOR shall notify the ENGINEER at least 48 hours prior to beginning any construction requiring water main shutdowns. The CONTRACTOR shall coordinate all water main shut downs with the ENGINEER. The Water & Sewer Department will be responsible for all main shut downs.
- CONTRACTOR must notify the Water and Sewer Department a minimum of 48 hours before performing any work on transmission main at the LAKE ST. AND 12TH ST. location

LEGEND	
	Cable Utility
	Electric Utility
	Watermain
	Line Stop
	Proposed Valve & Vault
	Existing Valve & Vault
	Existing Hydrant
	Ex. Sanitary Sewer MH
	Ex. Storm Sewer MH

Street	Size	Installation	Pavement	Patch
Lake Street and 12th Street	8" Cast Iron	8" Valve/Vault	4.25" HMA Surface / 9.25" PCC Base	2.5" HMA Surface/ 2" HMA Binder / 9" PCC Base /Curb

VILLAGE OF WILMETTE  
Engineering Department

2018 Sewer Repair and  
Valve Installation Program

Valve Replacement  
Lake St. and 12th St

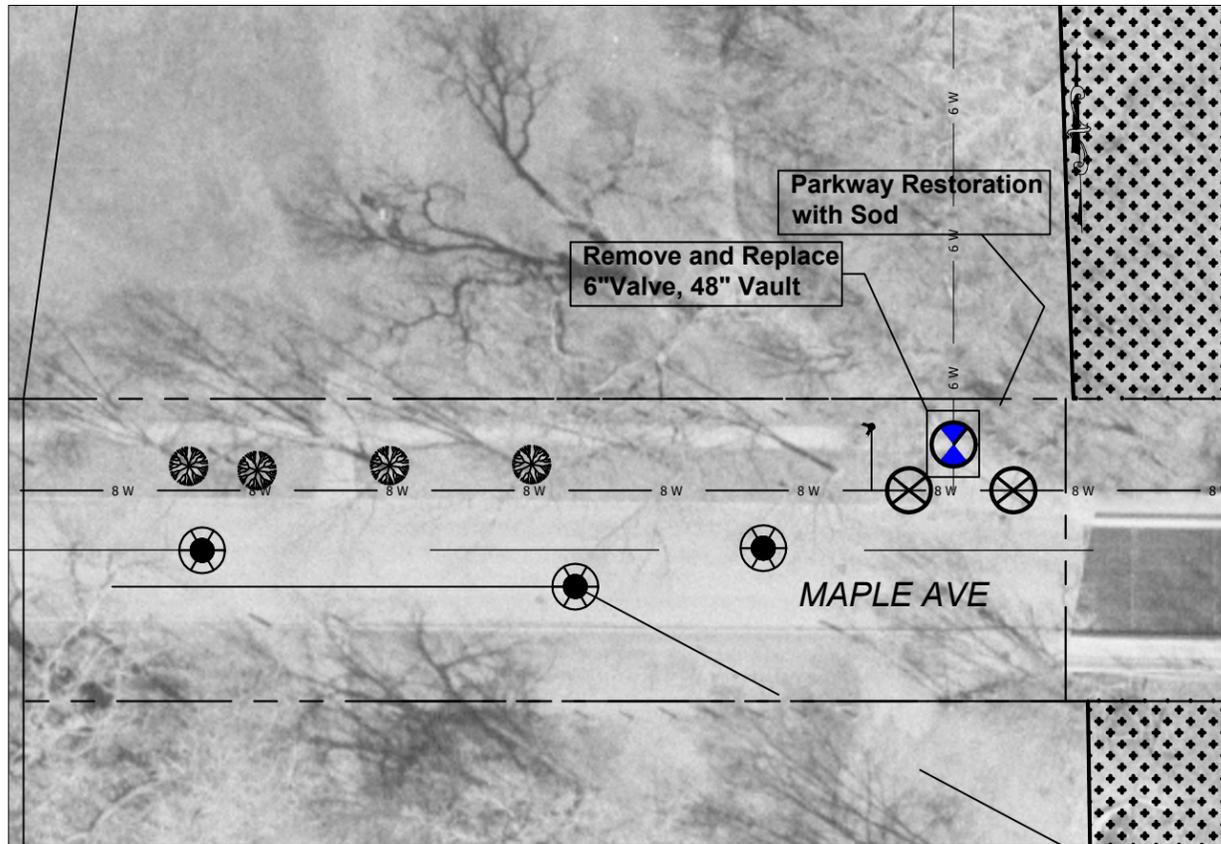
Existing and Proposed Conditions

Sheet Information:

Scale: 1=40	Date: Jun 2018
Designed By: DH	Checked By: Staff
Revision: 6.13.2018	

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EXISTING TREES AND SHRUBS NOT IDENTIFIED ON THE PLANS FOR REMOVAL ARE TO BE PROTECTED.

REMOVAL AND REPLACEMENT OF SIGNS OR POLES THAT NEED TO BE RELOCATED TEMPORARILY FOR CONSTRUCTION ACCESS ARE INCIDENTAL TO THE BID AND SHALL NOT BE PAID AS A SEPARATE ITEM. ALL SIGNS, POLES, AND OTHER STRUCTURES ARE TO BE PROTECTED.

**Valve Replacement Restrictions**

- Water Shut-off times are from 8:30AM to 3:30PM (unless otherwise specified)
- Water must be restored by 3:30PM
- Contractor can install a maximum of two (2) valves per day.
- Under no condition shall the CONTRACTOR operate any Village valves or hydrants. The CONTRACTOR shall notify the ENGINEER at least 48 hours prior to beginning any construction requiring water main shutdowns. The CONTRACTOR shall coordinate all water main shut downs with the ENGINEER. The Water & Sewer Department will be responsible for all main shut downs.

Street	Size	Installation	Pavement	Patch	Other
Maple Avenue	6" Cast Iron	6" Valve/Vault	N/A	Parkway Restoration	

**LEGEND**

- 8 W — Watermain
- Line Stop
- ⊗ Proposed Valve & Vault
- ⊗ Existing Valve & Vault
- ⌚ Existing Hydrant
- ⊙ Ex. Combined Sewer MH
- ⊙ Ex. Storm Sewer MH
- ⊙ Ex. Tree To Be Protected

VILLAGE OF WILMETTE  
Engineering Department

2018 Sewer Repair and  
Valve Installation Program

Valve Installations - Option 1  
Maple ave

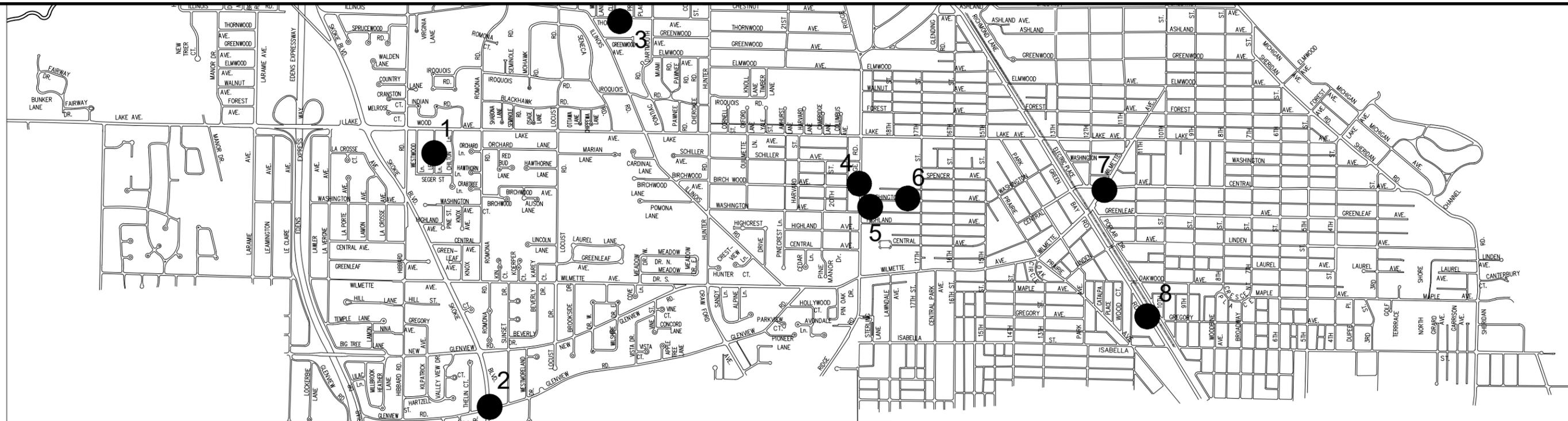
Sheet Information:

Scale: 1=40 Date: Jun 2017  
Designed By: DH Checked By: Staff  
Revision: 6.13.2018

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ALT 1

Existing and Proposed Conditions



Number	Structure Type	Work	Location	Depth (FT)	Size (Inches)	Lid	Type	Wording
1A	Manhole	Replace manhole	815 Leyden	7	48	Closed		Storm
1B	Inlet	Replace existing inlet	816 Leyden		24	Open		Storm
1C	Catch Basin	New catch basin	817 Leyden	7	48	Open		Storm
2	Manhole	Breakout/Replace bench	Skokie Blvd and Old Glenview	7	48			Sanitary
3A	Manhole	Replace storm manhole	2525 Thornwood	7	48	Closed		Storm
3B	Catch Basin	New catch basin	2525 Thornwood	7	48	Open		Storm
4	Manhole	Replace manhole	615 Ridge	8	48	Vented		Combined
5A	Manhole	Replace manhole	Ridge & Washington	7	48	Vented		Combined
5B	Inlet	Replace north inlet and pipe to manhole	Ridge & Washington		24	Open		Combined
6A	Manhole	Replace manhole	1725 Washington	8	48	Vented		Combined
6B	Catch Basin	Change existing inlet to catch basin	1725 Washington		48	Closed		Combined
7A	Valve Vault	Replace existing valve vault	Wilmette and Central		48	N/A		Water
7B	Valve Vault	Replace existing box with valve vault	Wilmette and Central		48	N/A		Water
8	Manhole	Replace manhole	153 Green Bay	7	48	Vented		Combined

THE VILLAGE OF WILMETTE HAS APPLIED FOR AN ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) PERMIT FOR THE WORK ON SKOKIE BOULEVARD/OLD GLENVIEW ROAD AND RIDGE ROAD.

THE CONTRACTOR SHALL OBTAIN ALL **BONDS AND INSURANCE** AS REQUIRED BY IDOT FOR THIS PERMIT FOR WORK ON SKOKIE BOULEVARD/OLD GLENVIEW ROAD AND RIDGE ROAD. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE BID PROPOSAL; NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

LOCATIONS OF STRUCTURES TO BE REPLACED AND ADJUSTED SHALL BE IDENTIFIED IN THE FIELD BY PUBLIC WORKS STAFF PRIOR TO ANY WORK ON THE STRUCTURES BEING PERFORMED.

Scale: NTS

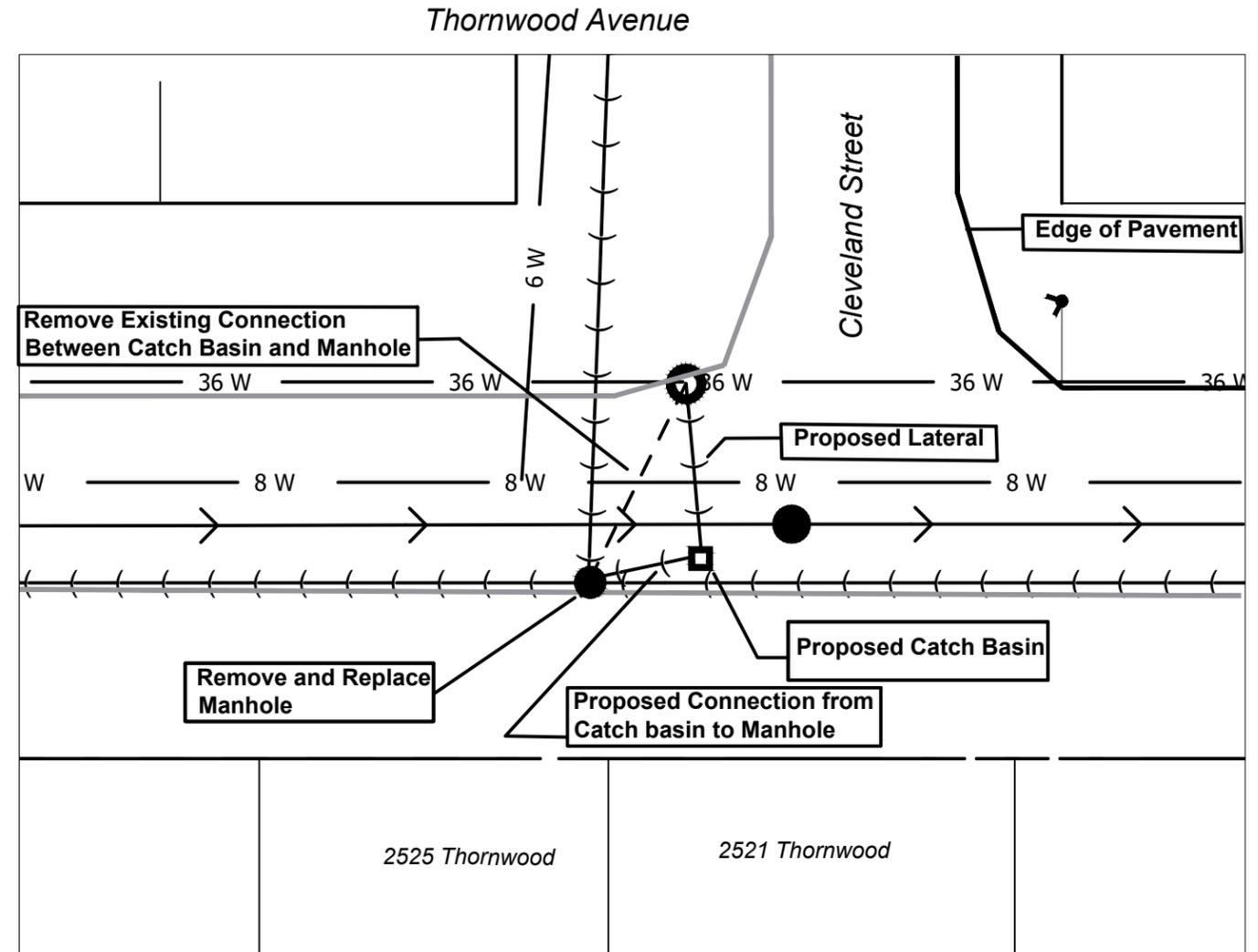
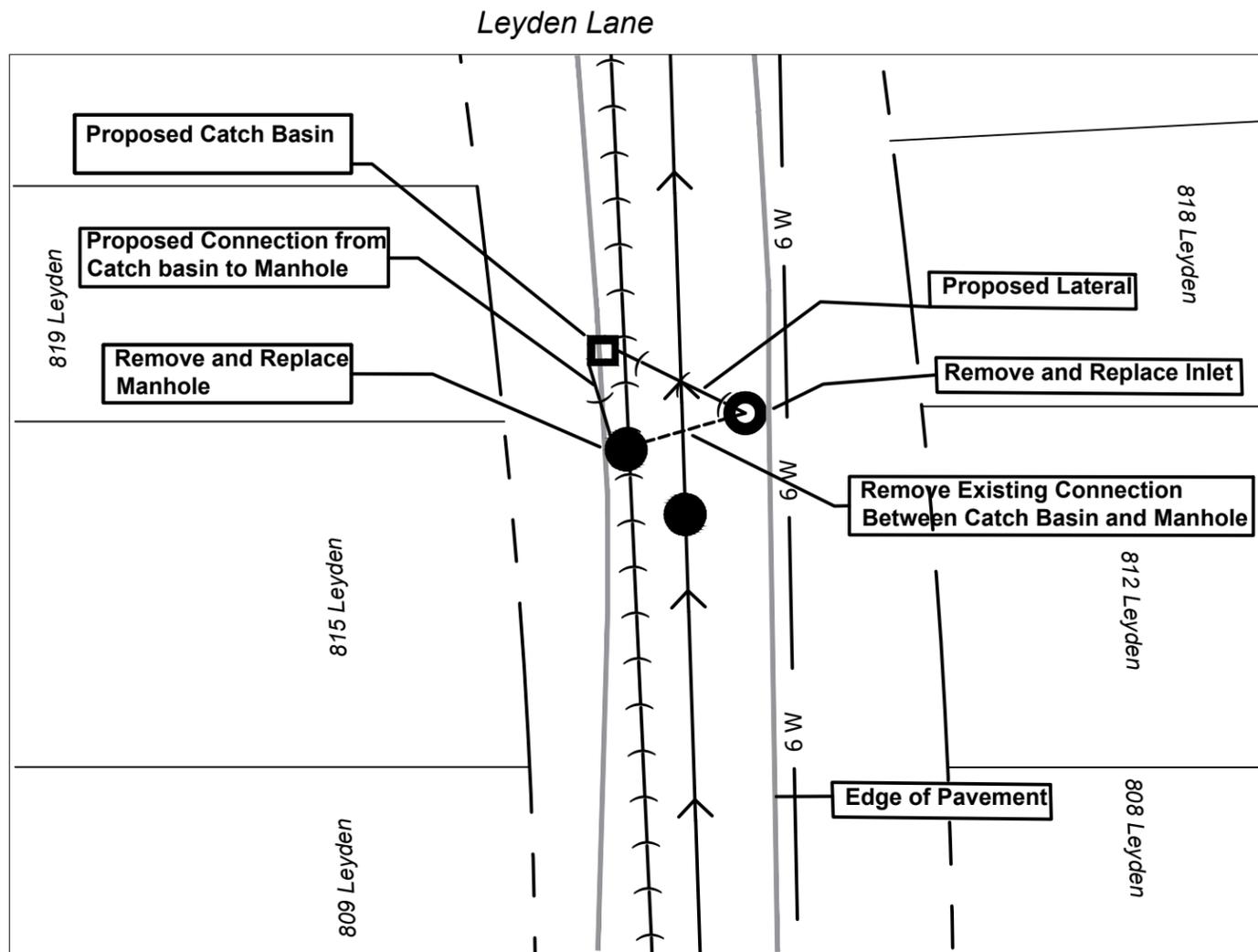
LEGEND	
	1 Structure Location

VILLAGE OF WILMETTE  
Engineering Department

2018 Sewer Repair and  
Valve Installation Program

Structure Repairs

Sheet Information:		SHEET
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Designed By: DH	Checked By: Staff	
Revision: 6.13.2018		



REMOVAL AND REPLACEMENT OF SIGNS OR POLES THAT NEED TO BE RELOCATED TEMPORARILY FOR CONSTRUCTION ACCESS ARE INCIDENTAL TO THE BID AND SHALL NOT BE PAID AS A SEPARATE ITEM. ALL SIGNS, POLES, AND OTHER STRUCTURES ARE TO BE PROTECTED.

EXISTING TREES AND SHRUBS NOT IDENTIFIED ON THE PLANS FOR REMOVAL ARE TO BE PROTECTED.

LEGEND	
	8 W Watermain
	Storm Sewer
	Sanitary/Combined
	Ex. Sewer MH
	Proposed Sewer MH
	Proposed Catch Basin
	Ex. Catch Basin/Inlet

VILLAGE OF WILMETTE  
Engineering Department

2018 Sewer Repair and  
Valve Installation Program

Structure Repair  
Leyden/Thornwood

Sheet Information:

Scale: 1=20

Date: May 2018

Designed By: DH

Checked By: Staff

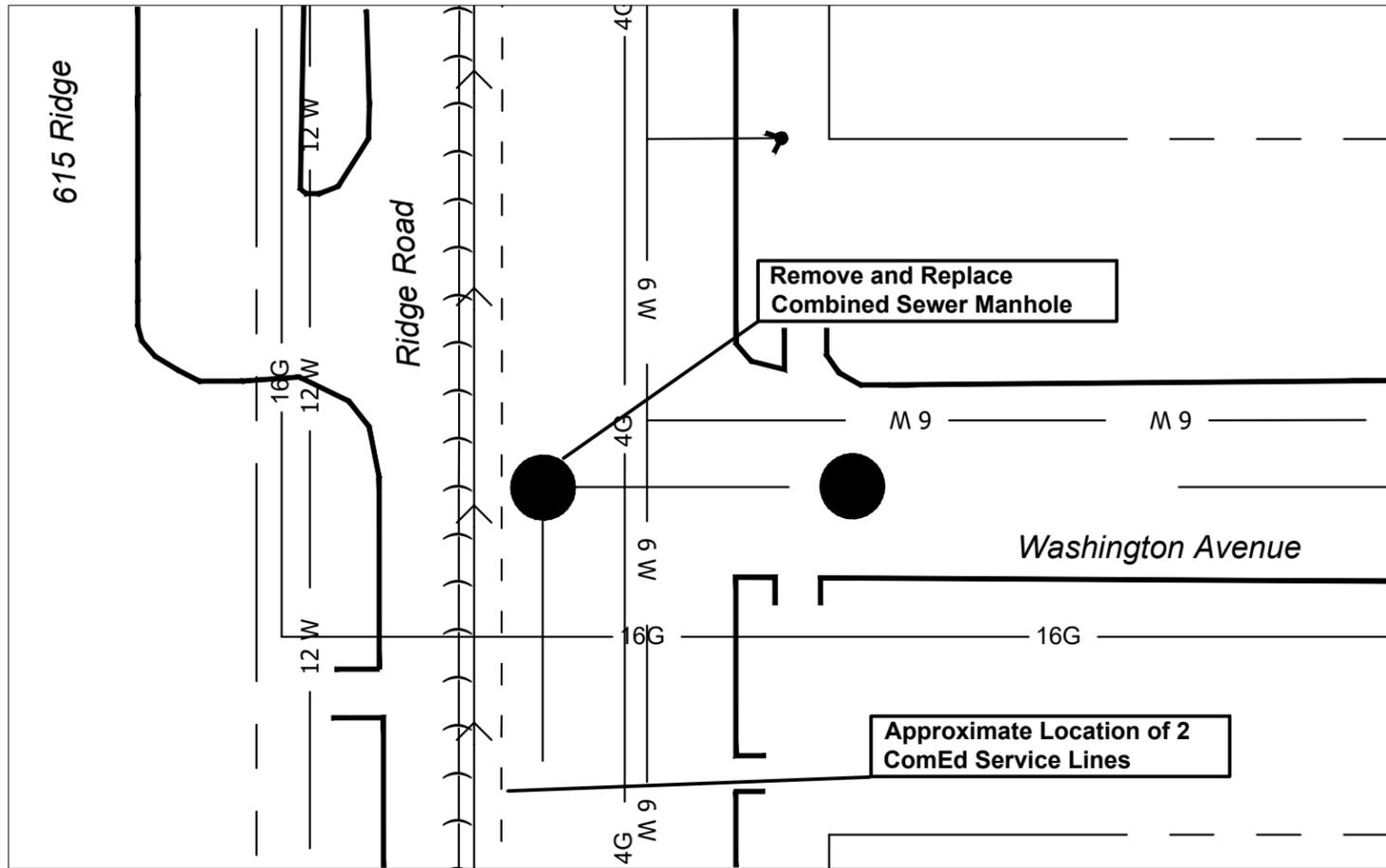
Revision: 6.13.2018

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Existing and Proposed Conditions



REMOVAL AND REPLACEMENT OF SIGNS OR POLES THAT NEED TO BE RELOCATED TEMPORARILY FOR CONSTRUCTION ACCESS ARE INCIDENTAL TO THE BID AND SHALL NOT BE PAID AS A SEPARATE ITEM. ALL SIGNS, POLES, AND OTHER STRUCTURES ARE TO BE PROTECTED.

EXISTING TREES AND SHRUBS NOT IDENTIFIED ON THE PLANS FOR REMOVAL ARE TO BE PROTECTED.

THE VILLAGE OF WILMETTE HAS APPLIED FOR AN ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) PERMIT FOR THE WORK ON RIDGE ROAD.

THE CONTRACTOR SHALL OBTAIN ALL **BONDS AND INSURANCE** AS REQUIRED BY IDOT FOR THIS PERMIT FOR WORK ON RIDGE ROAD. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE BID PROPOSAL; NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

LEGEND	
	Watermain
	Storm Sewer
	Sanitary/Combined
	Gas Main
	Ex. Sewer MH
	Proposed Sewer MH
	Proposed Catch Basin
	Ex. Catch Basin/Inlet

VILLAGE OF WILMETTE  
Engineering Department

2018 Sewer Repair and  
Valve Installation Program

Structure Repair  
Ridge Road

Sheet Information:

Scale: 1=20 Date: May 2018

Designed By: DH Checked By: Staff

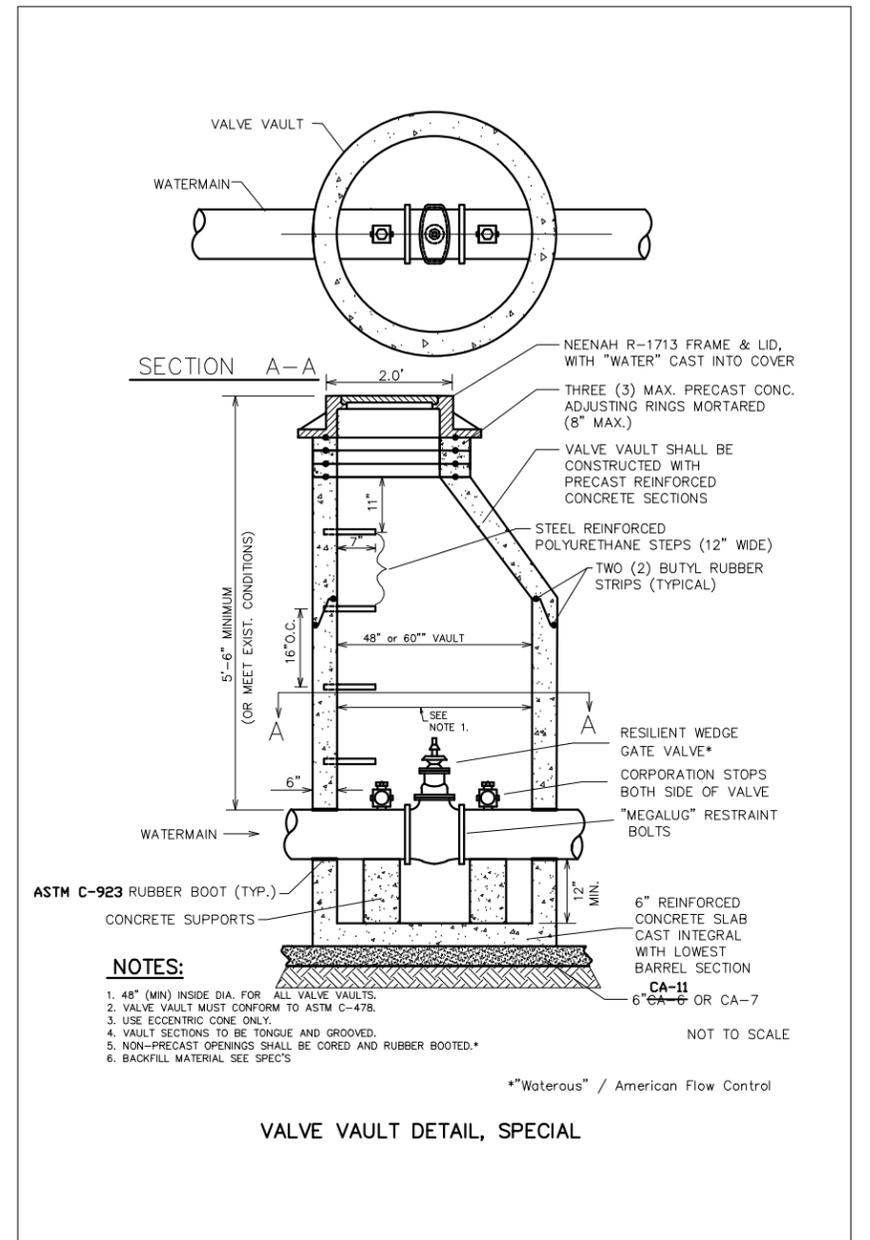
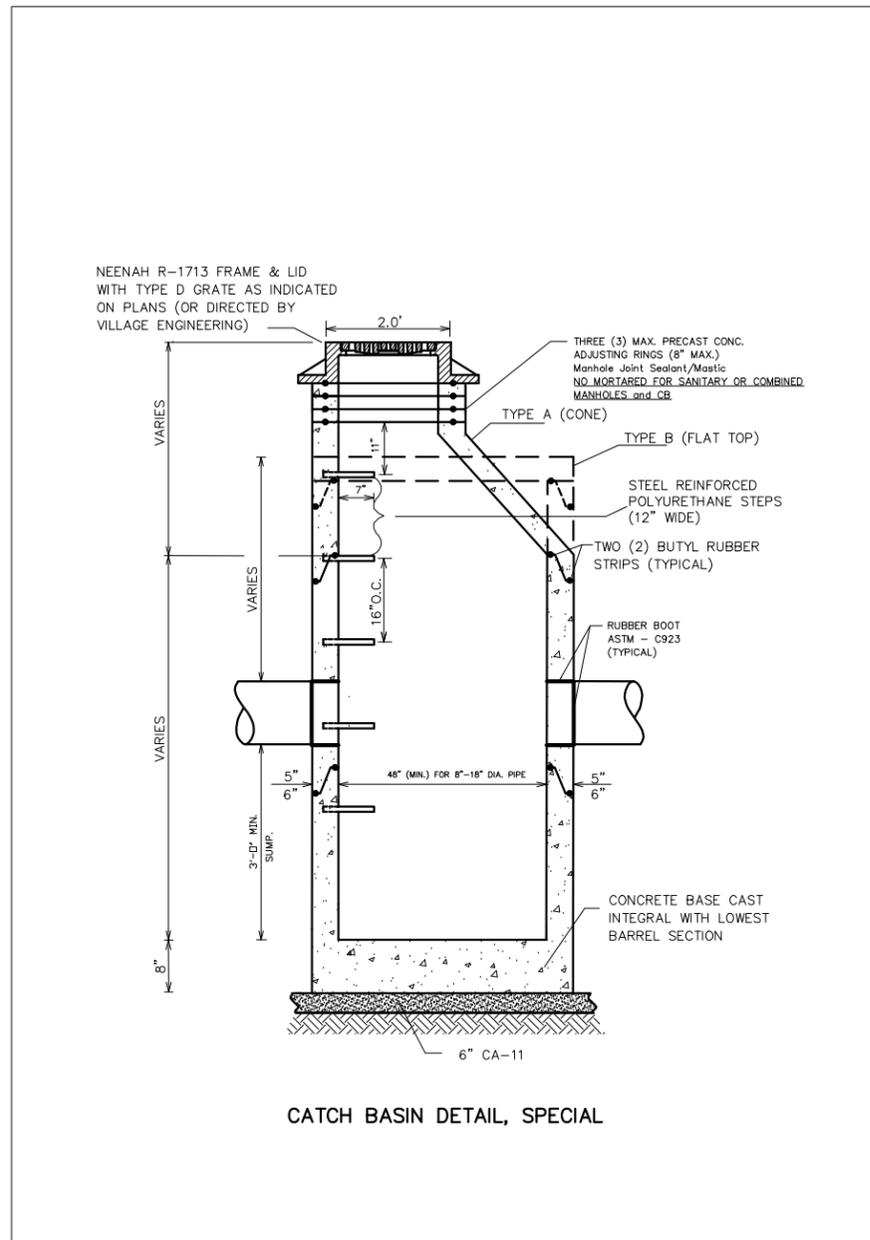
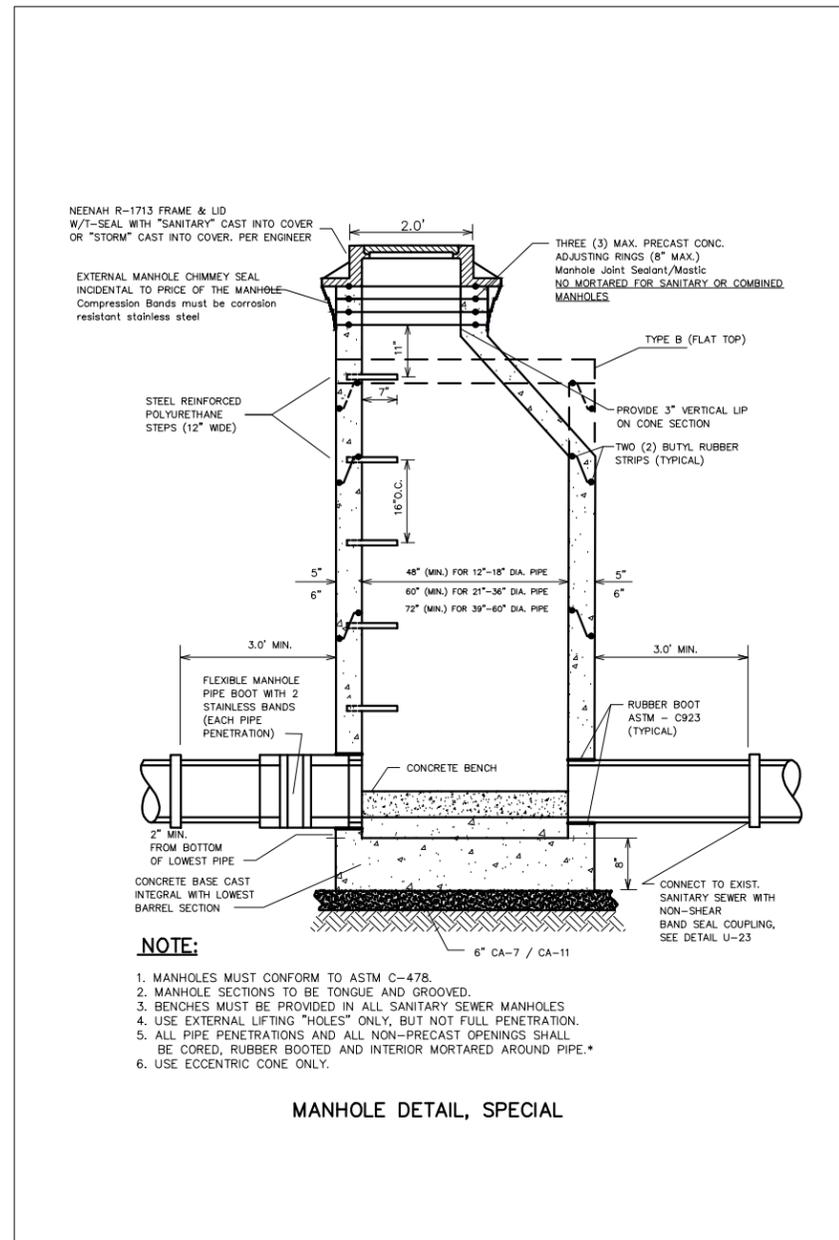
Revision: 6.13.2018

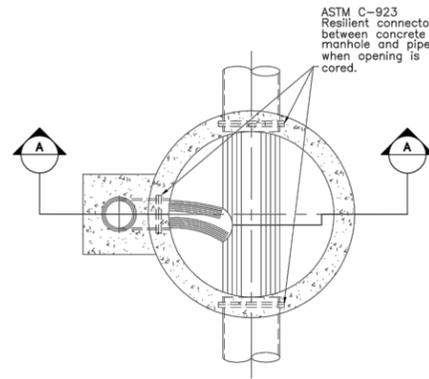
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Existing and Proposed Conditions





Section C-C

D <sub>1</sub> (inches)	D <sub>2</sub> (inches)
6	8
8	8
10	8
12	8
15	10
18	12
21	15
24	18

**Notes:**

D<sub>2</sub> shall be no smaller than two (2) nominal diameters less than D<sub>1</sub>, but not less than 8".

Details and material for drop manhole shall be same as for standard manhole except for lateral sewer connection as shown.

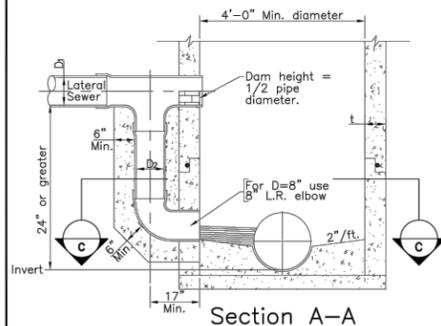
Manhole to be cast-in-place concrete or Type "A" w/ precast concrete sections and bottom (as shown).

Invert of elbow to be placed even with the level of the bench.

Minimum wall thickness "t" for for drop manhole:  
 a. 6" for cast-in-place concrete  
 b. 1/12 manhole diameter for precast concrete.

Concrete for encasement shall be 3000 psi @ 28 days, minimum.

Manhole steps are omitted for clarity.



Section A-A

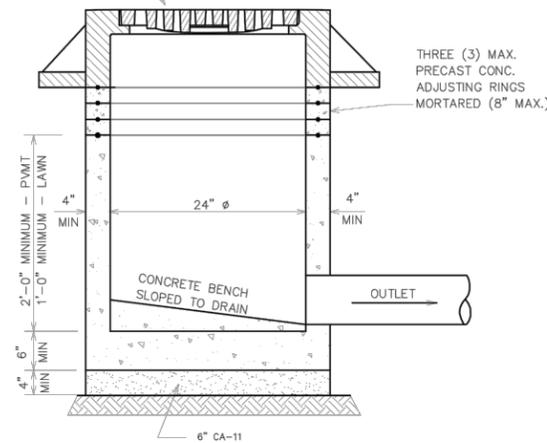
**Standard Drop Manhole**

METROPOLITAN WATER RECLAMATION  
 DISTRICT OF GREATER CHICAGO  
 ENGINEERING DEPARTMENT  
 10-02 Local Sewer Systems JRR:SDO

D:\yehibla\LOCAL\_SEWERS\Drop Manhole Detail.dwg, 11/04/02 at 10.01

19

\*R-2595-A or R-2540  
 NEENAH R-1713 FRAME & LID  
 WITH TYPE D GRATE AS INDICATED  
 ON PLANS (OR DIRECTED BY  
 VILLAGE ENGINEER)



**NOTES:**

1. INLET MUST CONFORM TO ASTM C-478.
2. NON-PRECAST OPENINGS SHALL BE CORED RUBBER BOOTED, AND INTERIOR MORTARED AROUND PIPE.\*
3. MAXIMUM DEPTH FROM INVERT OF OUTLET PIPE TO TOP OF FRAME SHALL NOT EXCEED 42 INCHES. IF DESIGN OR CONSTRUCTION REQUIRES DEPTH BEYOND 42 INCHES, STRUCTURE SHALL BE REVISED TO A 48 INCH DIAMETER MANHOLE.
4. BENCHES MUST BE PROVIDED IN ALL INLETS.

\* SEE PIPE CONNECTION TO STRUCTURE DETAIL U-4.

NOT TO SCALE

INLET TYPE "C"

Village of Wilmette  
 Engineering Department  
 847.853.7660

REVISED: 01-08-08

VILLAGE OF WILMETTE  
 Engineering Department

2018 Sewer Repair and  
 Valve Installation Program

Construction Details 2

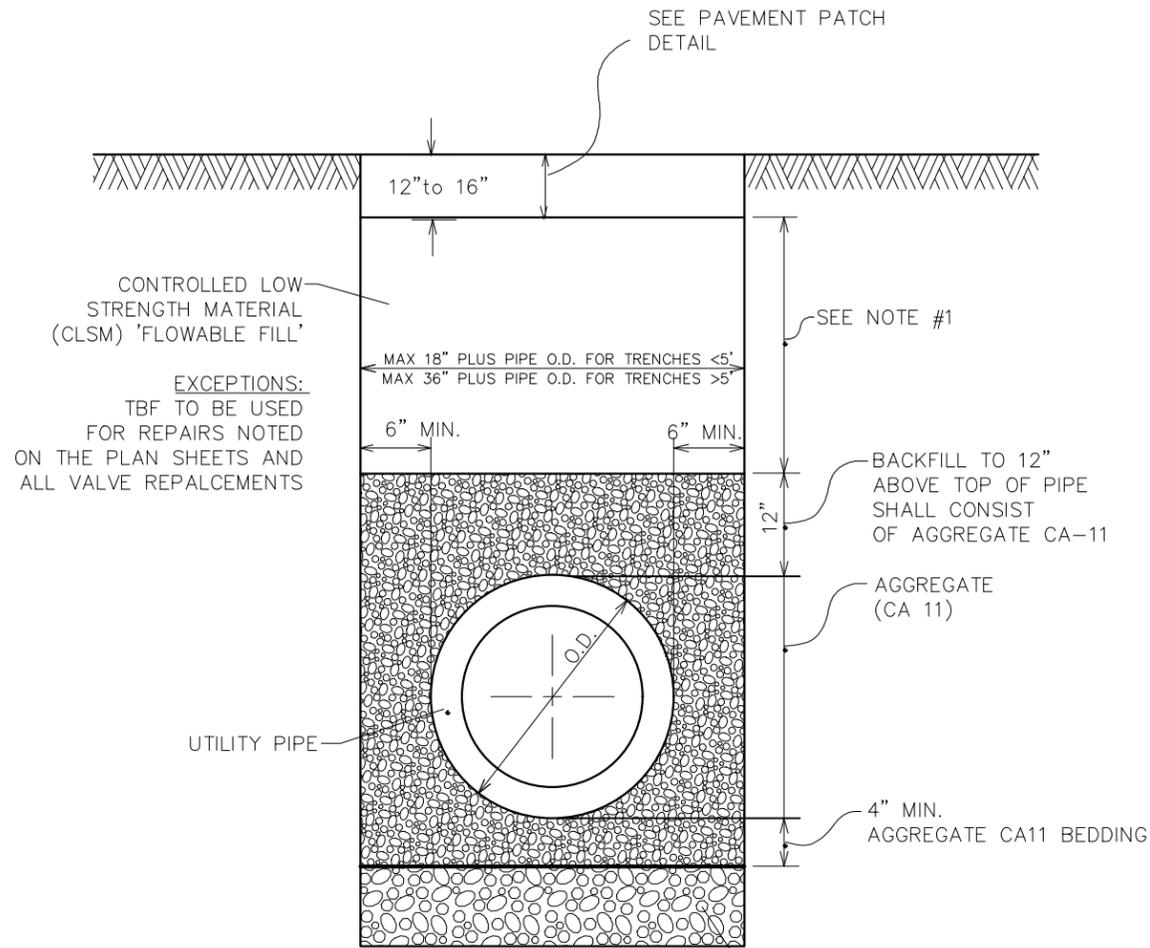
**Sheet Information:**

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Revision: 6.13.2018	

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CONTROLLED LOW STRENGTH MATERIAL (CLSM) 'FLOWABLE FILL'

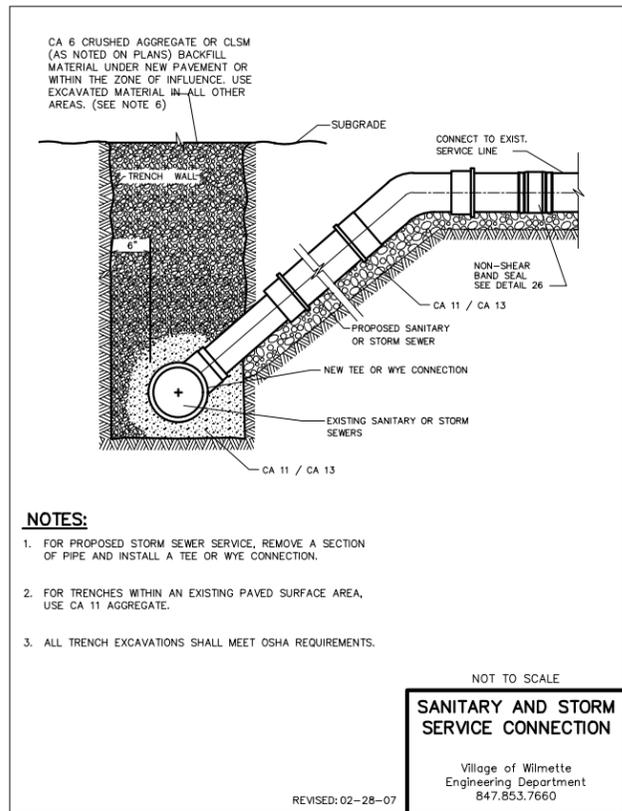
EXCEPTIONS:  
TBF TO BE USED FOR REPAIRS NOTED ON THE PLAN SHEETS AND ALL VALVE REPLACEMENTS

MAX 18" PLUS PIPE O.D. FOR TRENCHES <5'  
MAX 36" PLUS PIPE O.D. FOR TRENCHES >5'

- NOTES:
- TRENCH BACKFILL UNDER A PAVED SURFACE OR WITHIN THE ZONE OF INFLUENCE (3' FROM EDGE OF PAVEMENT) SHALL CONSIST OF:
    - UNDER BRICK AND CLASS D PATCHES:  
8" THICK PAVEMENT SUBGRADE OVER CLSM MIX 1\*
    - UNDER CLASS C AND COMPOSITE PATCHES:  
8" THICK PAVEMENT SUBGRADE OVER AGGREGATE CA-6 TRENCH BACKFILL
  - ALL MATERIALS SHALL BE PROPERLY COMPACTED PER SPECIFICATIONS (INUNDATION OR WATER JETTING NOT ALLOWED).
  - ALL TRENCH EXCAVATIONS SHALL MEET OSHA REQUIREMENTS.
  - BEDDING MATERIAL FOR PVC PIPE INSTALLATION SHALL COMPLY WITH ASTM D-2321.
  - IF APPROVED BY VILLAGE ENGINEERING, A ONE (1) INCH THICK STEEL PLATE SHALL BE PROVIDED AND MAINTAINED BY CONTRACTOR UNTIL THE SURFACE RESTORATION IS COMPLETE. THE PLATE SHALL BE PROTECTED FROM SLIDING AND PROVIDED WITH BITUMINOUS RAMPS IF REQUIRED BY VILLAGE ENGINEERING.
  - PRIOR TO PLACEMENT OF PAVEMENT MATERIALS, THE EXISTING EXPOSED EDGES SHALL BE SAWCUT TO PROVIDE A SMOOTH CLEAN EDGE, FREE OF LOOSE MATERIAL.
  - THE PLACEMENT OF PAVEMENTS SHALL NOT BE ALLOWED WITHOUT PRIOR INSPECTION BY VILLAGE ENGINEERING.

- \*CLSM SPECIAL:
- NOT PERMITTED WITHIN 3' OF EITHER SIDE OF WATERMAIN
  - NOT PERMITTED WITHIN 3' OF EITHER SIDE OF WATER SERVICE
  - NOT PERMITTED OUTSIDE ROADWAY
  - BACKFILL, CA-6
  - PIPE BEDDING, CA-11
  - REMAINDER OF TRENCH, CA-6

UNDERCUT UNSUITABLE AREAS WHERE DIRECTED AND REPLACE WITH AGGREGATE CA 7



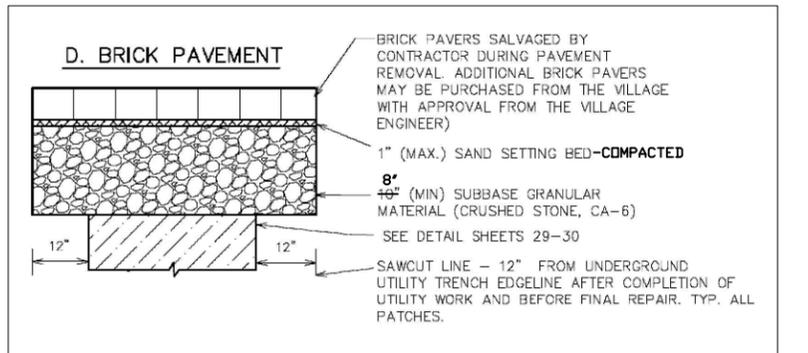
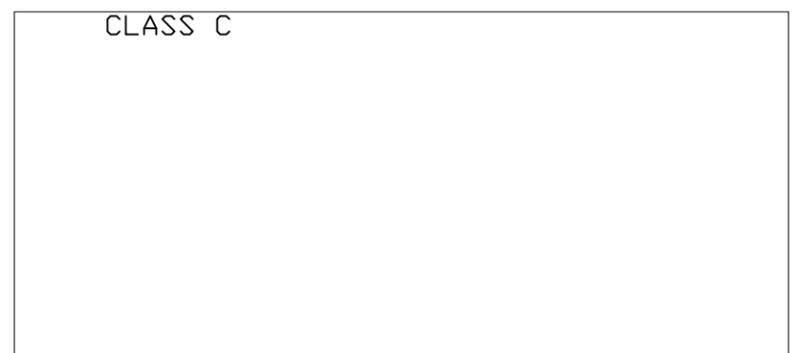
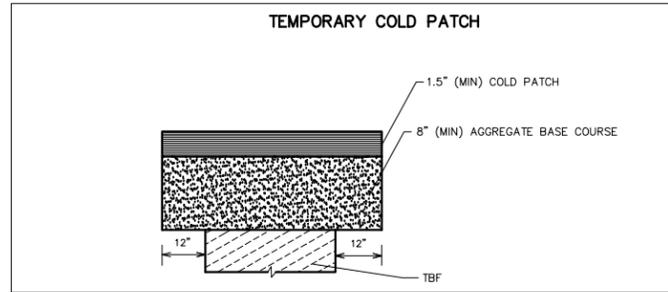
- NOTES:
- FOR PROPOSED STORM SEWER SERVICE, REMOVE A SECTION OF PIPE AND INSTALL A TEE OR WYE CONNECTION.
  - FOR TRENCHES WITHIN AN EXISTING PAVED SURFACE AREA, USE CA 11 AGGREGATE.
  - ALL TRENCH EXCAVATIONS SHALL MEET OSHA REQUIREMENTS.

NOT TO SCALE

**SANITARY AND STORM SERVICE CONNECTION**

Village of Wilmette  
Engineering Department  
847.853.7660

REVISED: 02-28-07



VILLAGE OF WILMETTE  
Engineering Department

2018 Sewer Repair and  
Valve Installation Program

Construction Details 3

Sheet Information:	
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Revision: 6.13.18	

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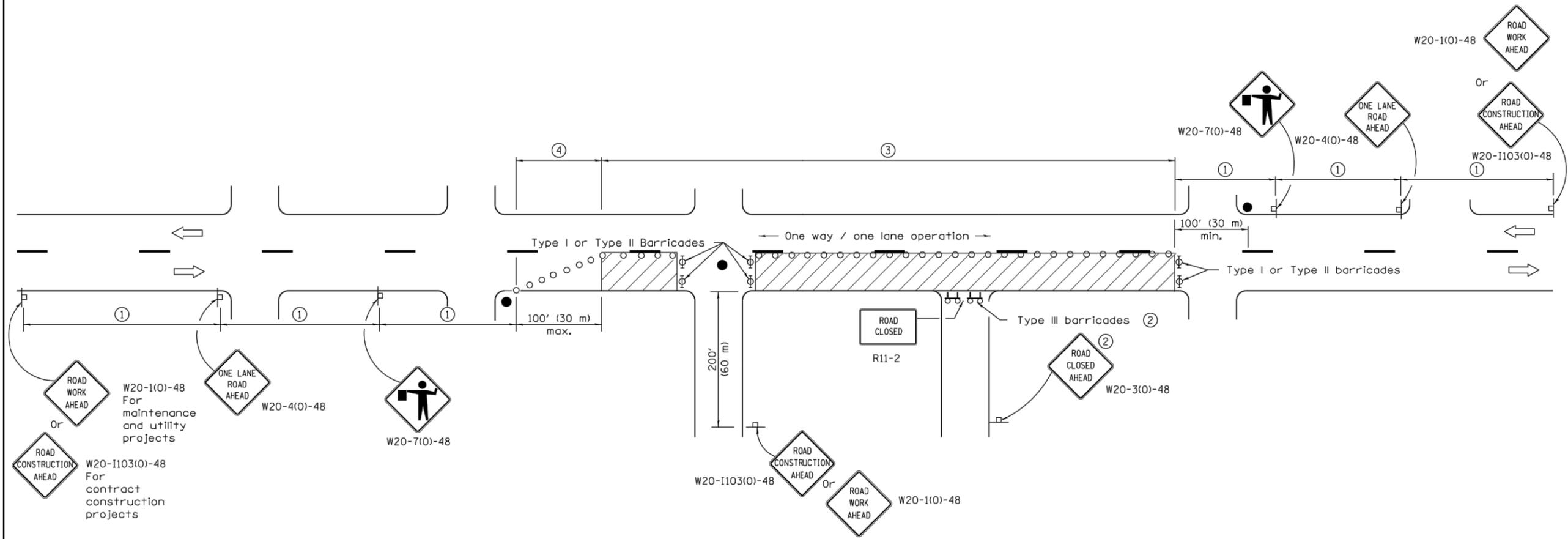
# Traffic Control Summary

Traffic Control shall be according to Section 701 'Work Zone Traffic Control and Protection' of the Standard Specifications, the Maintenance of Traffic Plans, the Speical Provisions, and the MUTCD.

Location	Typical Traffic Control Measures for each location	All required traffic control will be paid per location as the following highway standard pay items:			
		CODE	DESCRIPTION	UNIT	PAY ITEM
All sewer, valve, and structure locations unless otherwise specified	RCAs, barricades, flaggers for sewer, valve and patching construction operations	701501-06	Urban Lane Closure, 2L, 2W, Undivided	LUMP SUM	TRAFFIC CONTROL AND PROTECTION
Lake/Laramie, Skokie/Old Glenview	RCAs, barricades, flaggers for sewer, valve and patching construction operations	701701-10	Urban Lane Closure Multi Lane Intersection	LUMP SUM	TRAFFIC CONTROL AND PROTECTION
153 Green Bay	RCAs, barricades, flaggers for sewer, valve and patching construction operations	701502-08	Urban Lane Closure, Multilane, 2W With Bidirectional Left Turn Lane	LUMP SUM	TRAFFIC CONTROL AND PROTECTION
Lake/12th	RCAs, barricades, flaggers for sewer, valve and patching construction operations	701606-10	Urban Single Lane Closure, Multilane, 2W With Mountable Median	LUMP SUM	TRAFFIC CONTROL AND PROTECTION

**Notes:** The Contractor shall post and maintain 'No Parking' signs furnished by the Village.  
 Roads may not be closed without the prior approval of the Resident Engineer.  
 Road closures will require the use of Type III barricades affixed with 'Road Closed' placed at the closure and 'Road Closed to Thru Traffic' placed at the nearest cross street or flaggers for short term closures.

Work zone traffic control as required by the Standard Specifications, Highway Standards, Special Provisions, Plans, MUTCD, and the Resident Engineer shall be included in the bid price for the various TRAFFIC CONTROL AND PROTECTION pay items.



SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

**SYMBOLS**

- Work area
- Cone, drum or barricade (not required for moving operations)
- Sign on portable or permanent support
- Flagger with traffic control sign
- Barricade or drum with flashing light
- Type III barricade with flashing lights

- ① Refer to SIGN SPACING TABLE for distances.
- ② For approved sideroad closures.
- ③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Cones, drums or barricades at 20' (6 m) centers.

**GENERAL NOTES**

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an urban area.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric).
	Corrected sign No.'s.

**URBAN LANE CLOSURE,  
2L, 2W, UNDIVIDED**

**STANDARD 701501-06**

Illinois Department of Transportation

APPROVED January 1, 2011  
  
 ENGINEER OF SAFETY ENGINEERING

ISSUED 1-1-97

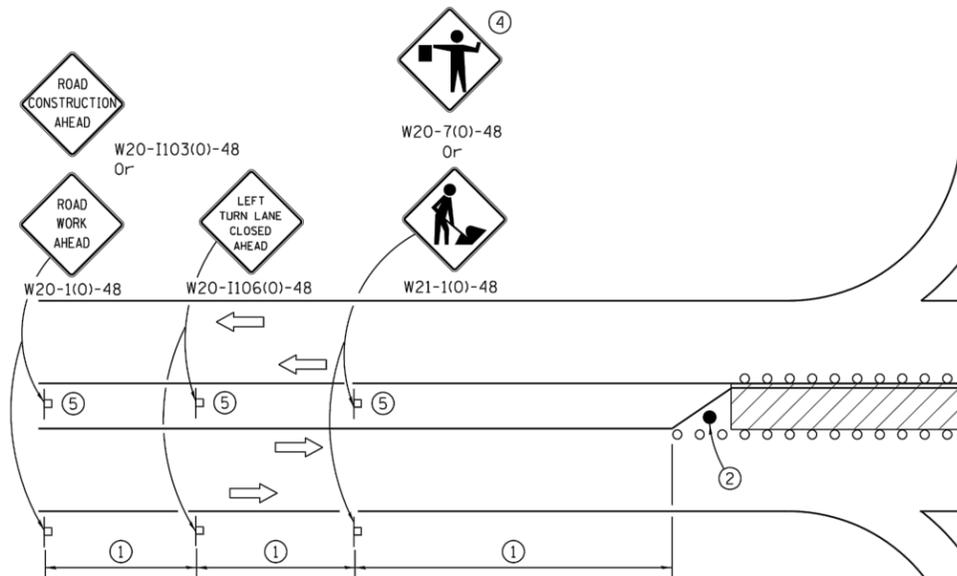
APPROVED January 1, 2011  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

VILLAGE OF WILMETTE  
Engineering Department

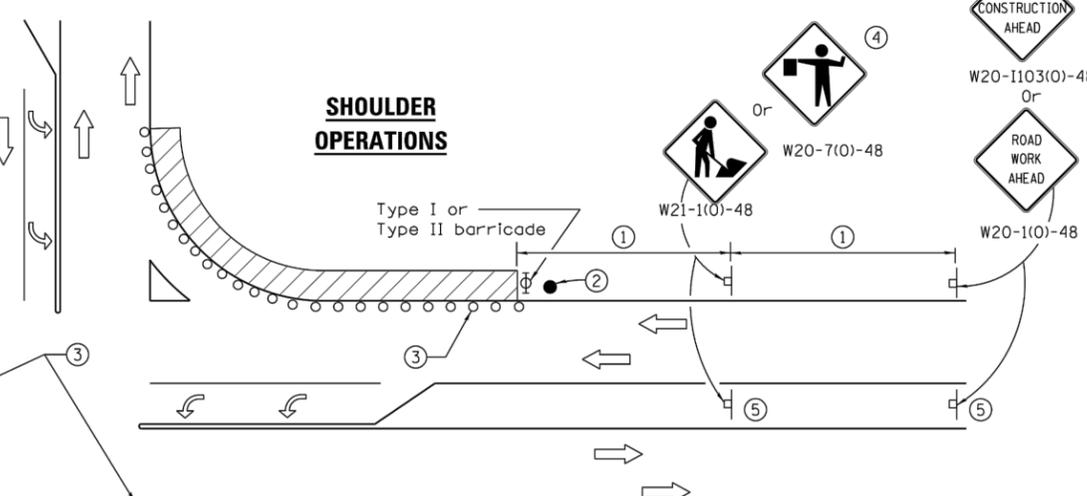
2018 Sewer Repair and  
Valve Installation Program

Typical Details  
IDOT Standard 701501-06

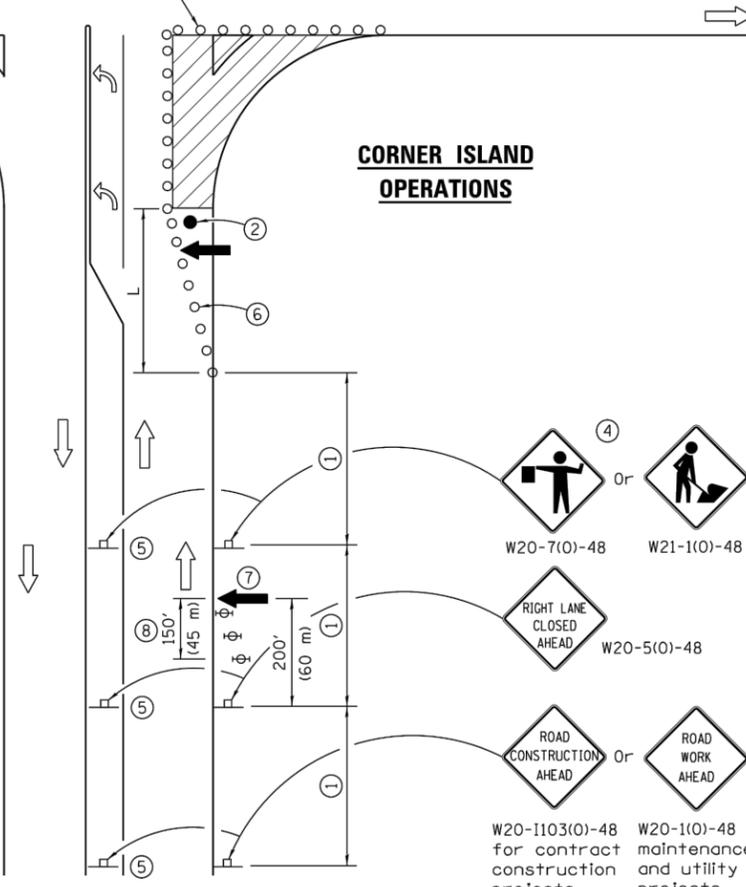
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Scale: NTS	Date: Aug 2018	
Designed By: DH	Checked By:	
Revision: 6.13.2018		



**SHOULDER OPERATIONS**



**CORNER ISLAND OPERATIONS**



**LEFT TURN LANE OR CENTER MEDIAN OPERATIONS**

- ① Refer to SIGN SPACING TABLE for distance.
- ② Required for speed > 40 mph.
- ③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Use flagger sign only when flagger is present.
- ⑤ Omit this sign when median is less than 10' (3 m) or for bi-directional turn lanes.
- ⑥ Cones, drums or barricades at 20' (6 m) centers in taper.
- ⑦ Advanced arrow board required for speeds > 45 mph.
- ⑧ Three Type II barricades, drums or vertical barricades at 50' (15 m) centers.

SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

**SYMBOLS**

- Work area
- Cone, drum or barricade
- Sign on portable or permanent support
- Arrow board
- Barricade or drum with flashing light
- Flagger with traffic control sign

**GENERAL NOTES**

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in an urban area.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(Metric)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L = (W)(S)$	$L = 0.65(W)(S)$

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED: *[Signature]* April 1, 2016  
ENGINEER OF SAFETY ENGINEERING

APPROVED: *[Signature]* April 1, 2016  
ENGINEER OF DESIGN AND ENVIRONMENT

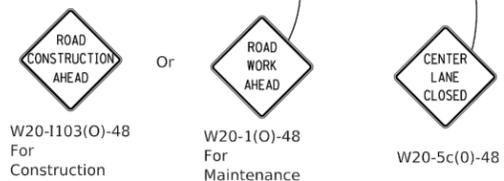
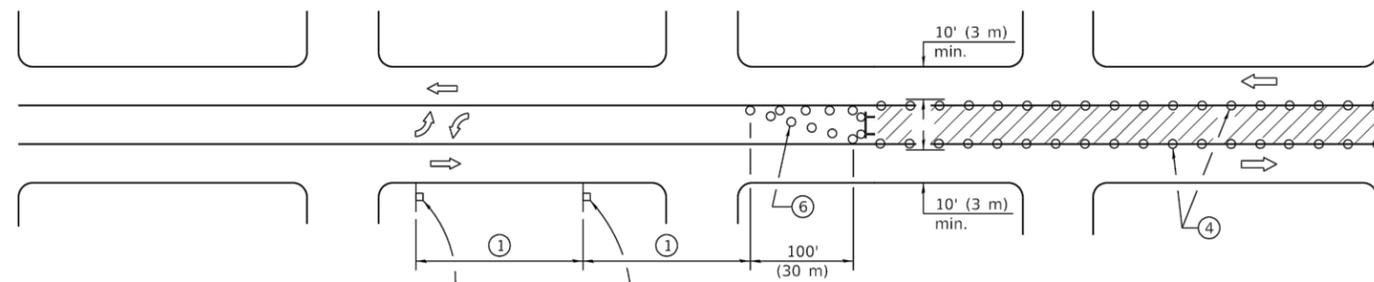
ISSUED: 1-1-97

DATE	REVISIONS
4-1-16	Corrected sign number for LEFT TURN LANE CLOSED AHEAD.
1-1-14	Added devices at arrow board upstream from taper. Rev. workers sign number.

**URBAN LANE CLOSURE, MULTILANE INTERSECTION**

**STANDARD 701701-10**

Sheet Information:	
Scale: NTS	Date: Jun 2018
Designed By: DH	Checked By:
Revision: 6.13.2018	



**CASE I**  
(Signs required for both directions)

SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

- ① Refer to SIGN SPACING TABLE for distances.
- ② Required for speeds > 40 mph (70 km/h).
- ③ Required if work exceeds 500' (164 m) or 1 block.
- ④ Cones at 25' (8 m) centers for 250' (75 m) on approach. Additional cones may be placed at 50' (15 m) centers. When drums or type I or II barricades are used, the interval between devices may be doubled.
- ⑤ For approved sideroad closures.
- ⑥ Cones, drums or barricades at 20' (6 m) centers in taper.
- ⑦ Use flagger sign only when flagger is present.

**SYMBOLS**

- Work area
- Barricade or drum with flashing light
- Flagger with traffic control sign
- Cone, drum or barricade (Cones for daytime use only)
- Sign on portable or permanent support
- Type III barricade with flashing lights

**GENERAL NOTES**

This Standard is used to close one lane of an urban, two lane, two way roadway with a bidirectional turn lane.

Case I applies when no workers are present. When workers are present, two lanes shall be closed and traffic control shall be according to Standard 701501.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(Metric)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L=(W)(S)$	$L=0.65(W)(S)$

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2018  
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2018  
ENGINEER OF DESIGN AND ENVIRONMENT

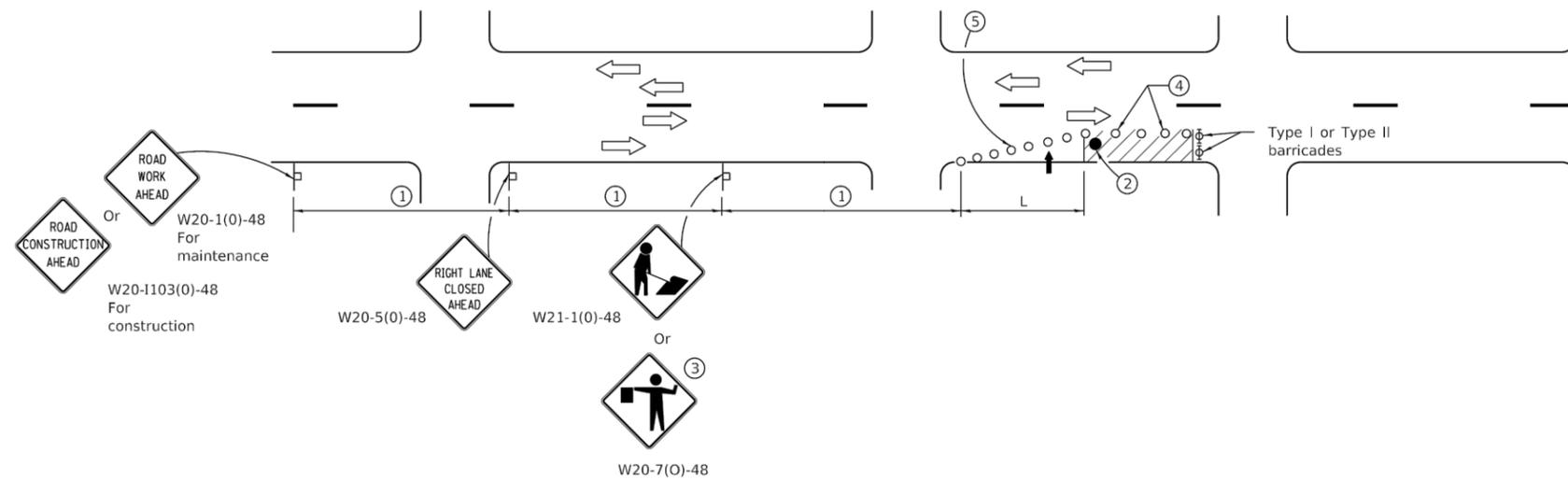
ISSUED 1-1-01

DATE	REVISIONS
1-1-18	Corrected sign number for TWO WAY TRAFFIC sign for CASE II.
1-1-17	Added flashing lights to Type III barr. Revised dev. & sign spacing, TWLTL taper length.

**URBAN LANE CLOSURE,  
2L, 2W, WITH BIDIRECTIONAL  
LEFT TURN LANE**  
(Sheet 1 of 2)

**STANDARD 701502-08**

Scale: NTS	Date: Jul 2018
Designed By: DH	Checked By:
Revision: 6.13.2018	



SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

**SYMBOLS**

- Arrow board
- Cone, drum or barricade
- Sign on portable or permanent support
- Work area
- Barricade or drum with flashing light
- Flagger with traffic control sign.

- ① Refer to SIGN SPACING TABLE for distances.
- ② Required for speeds > 40 mph.
- ③ Use flagger sign only when flagger is present.
- ④ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ⑤ Cones, drums or barricades at 20' (6 m) centers in taper.

**GENERAL NOTES**

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an Urban area.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(Metric)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L=(W)(S)$	$L=0.65(W)(S)$

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2015  
  
 ENGINEER OF SAFETY ENGINEERING

ISSUED 1-1-17

APPROVED January 1, 2015  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS
1-1-15	Renamed standard. Moved case on Sheet 2 to new Highway Standard.
1-1-14	Revised workers sign number to agree with current MUTCD.

**URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN**

**STANDARD 701606-10**

Scale: NTS	Date: Jul 2018
Designed By: DH	Checked By:
Revision: 6.13.2018	

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