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INTRODUCTION

1.1. PROJECT BACKGROUND AND OBJECTIVES

The Village of Villa Park (Village) is a suburb of Chicago located within DuPage County in Illinois. This report provides a review of improvements undertaken since the Master Plan in 2008, an evaluation of current conditions, and recommendations for rehabilitation, inflow and infiltration removal, and capital improvements in order to minimize sanitary sewer overflows (SSOs), basement backups, and reliance on the Wet Weather Flow Treatment Facility (WWFTF) during major rain events.

During the storms of January 12, 2005; October 2, 2006; and December 20, 2006, the Village experienced severe rains which resulted in sanitary sewer overflows at four locations: the corner of Cross Street and Julia Drive, the backyard easement between S. Myrtle Avenue and S. Euclid Avenue, the corner of Villa Avenue and Maple Street, and the corner of Fulton Street and Vermont Street.

Due to the recurring difficulties in these areas, the Village was issued a Notice of Violation from the Illinois Environmental Protection Agency (IEPA). The Village then committed to providing to the IEPA an aggressive program of investigation and remedial action to reduce the incidences of sanitary overflow and basement back-ups. The improvements recommended in the Master Plan 2008, were in response to these incidents.

1.2. PROJECT APPROACH

The 2008 Master Plan provided a 10-year plan for the Village to address Inflow/Infiltration (I/I) removal, Capacity improvements and Structural Improvements. Since the 2008 Master Plan, the Village has conducted additional sewer televising, smoke testing and dye testing, which has resulted in lining/rehabilitating/replacing all sewers within Basins 1 through 3 in North Villa and Basins 6 through 8 in South Villa.

Additionally, the 2008 Master Plan also recommended rehabilitating sewer laterals for any tear downs in the Village and addressed other needs for system improvements that have surfaced since.

The primary purpose of this master plan update is to conduct a comprehensive evaluation of the existing sanitary system, identify potential risks and vulnerabilities and assess the remaining needs for improving the level of service of the sanitary system. It consists of the following components:

- Sewer schedules and maps reflecting lining status and pipe inspection status.
- Lateral schedules and maps, identifying all known laterals, materials, and the concrete laterals of specific concern.
- Findings and recommendations of 2023 South Villa pump station condition assessment and 2022 Hydraulic Modelling study.
- Summary of manhole inspections, recommendations, tables, maps and costs from 2019, 2022 and 2023 inspections.

- Multi-year inspection program for remaining sewers needing inspection and multi-year rehabilitation program for sewers and manholes.
- Estimated construction cost estimates for all recommended work and projected phasing.

2. EXISTING SYSTEM

The Village comprises both combined and separate sanitary sewer systems. The central part of the town bounded by Madison Street to the south and the UP railroad to the North contains the majority of the combined sewers. The areas to the north and south of this central region are separate sanitary systems. The extent of the combined and separate systems is shown on Exhibit A-1. The Village sanitary collection system is predominantly 8" and 10" diameter. The interceptors range in size from 12" to 30" diameter. In total, there are 41.18 miles of public sanitary sewer in the Village.

2.1. SANITARY SEWER COLLECTION SYSTEM

The Village began developing in the 1920s with expansion every decade, with the exception of the 1940s. During the 1950s and 1960s, substantial construction occurred both in North and South Villa basins. The sewers built during this time period were predominantly unreinforced concrete pipe and served the area on the north side of the Village between the UP and the CCP railroads, including those areas known as the ABC Streets and College Streets. Expansion since the 1960s has been mainly of vitrified clay pipe (concrete for larger sizes) and latterly of PVC.

2.2. COMBINED SEWER COLLECTION SYSTEM

The combined sewer collection system is predominately clay with pipes ranging in size from 6" to 84". There are 32.34 miles of sewer within the combined sewer area.

Since the adoption of the 1981 facility plan, the Village has systematically worked to reduce the amount of stormwater entering the combined system through the construction of separate storm sewers and elimination of I/I sources where feasible. As a result, total flow to Salt Creek Sanitary District (SCSD) has decreased significantly. Consequently, the separate sanitary sewer areas are considered the priority for addressing current inadequacies within the system and are the focus of this facility plan update.

2.3. LIFT STATIONS

The Village is served by a total of six lift stations. The largest of these lift stations is South Villa Lift Station, which serves all of Basins 6, 7, and 8. The South Villa Lift Station has remained an area of concern for the Village, as recurrent sanitary sewer overflows (SSOs) have occurred both upstream of the station and at the discharge of the 10-inch force main (structure 5-028).

3. SEWER SYSTEM IMPROVEMENTS SINCE 2008

The Village with assistance from RJN developed a ten-year Sanitary Sewer Master Plan recommending extensive condition assessment (smoke testing, and dye flooding) and rehabilitation of the sanitary sewer system within the Village's separated sewer areas (Basins 1 through 3 in North Villa and Basins 6 through 8 in South Villa). In the ensuing years, the Village has implemented these recommendations and also developed long-term plans for the combined sewer and separated storm sewer systems.

3.1. SEWER INSPECTIONS AND REHABILITATION

The Village conducted sewer televising, smoke testing and dye testing within the separated areas of North Villa and South Villa. This resulted in lining many sewers and removing indirect cross-connections with the storm sewers. All the lined/rehabbed sewers are presented in Exhibits A-2 and A-3 and Table A-1.

Table 1 represents the distribution of all pipes based on whether they were televised.

Table 1- Percentage of Televised Sewers

Material	Total Length (LF)	Televised Length (LF)	Percent of Total Length Televised
Cast Iron	1,181	395	33.41%
Concrete	83,440	46,565	55.81%
HDPE	361	0	0.00%
Plastic	1,220	0	0.00%
PVC	30,710	104	0.34%
Unknown	135	0	0.00%
VCP	86,374	20,385	23.60%

The current distribution of lined pipe by material is presented in **Table 2**

Table 2 - Percentage of Lined Sewers

Material	Total Length (LF)	Lined Length (LF)	Percent of Total Length Lined
Cast Iron	1,181	412	34.86%
Concrete	83,440	54,697	65.55%
HDPE	361	0	0.00%
Plastic	1,220	0	0.00%
PVC	30,710	0	0.00%
Unknown	135	0	0.00%
VCP	86,374	27,154	31.44%

3.2. LATERAL REHABILITATION

As the Village proceeded with mainline lining in certain areas, it was discovered that some of the unreinforced concrete factory service connections to these sewers were at the risk of failure. Consequently, the Village initiated a lateral rehabilitation project for these service connections. Exhibit D-1 illustrates the locations of the rehabilitated laterals.

3.3. MANHOLE REHABILITATION

During the last 20 years, the Village undertook rehabilitation of all the manholes along Sugar Creek that were affected by infiltration from the creek. The Village also rehabilitated all manholes located in private backyards, thus reducing infiltration but also maintenance issues as accessibility was difficult. All rehabilitated manholes are presented in Exhibit A-4 and Table A-2.

3.4. S. MYRTLE AVENUE RELIEF SEWER

The Myrtle Avenue Relief Sewer was designed and constructed in 2008 to address recurring SSOs in the backyard easement between Myrtle and Euclid Avenue south of Sugar Creek. Previously the 8-inch sewer running north along this easement between Harrison Street and Julia Drive served a tributary area east of Euclid and south of Van Buren Street but did not have sufficient capacity to convey peak wet-weather flows. The10-inch Myrtle Relief Sewer was constructed along Myrtle Avenue, and this tributary area was rerouted to the new sewer, leaving the existing 8-inch backyard sewer to serve only the properties along the block between Harrison and Julia. As part of the project, the two segments on Julia between Myrtle and Villa Avenue were also upsized, as was the downstream segment on Villa Avenue crossing Sugar Creek, as seen in Exhibit A-5.

3.5. 2022 HYDRAULIC MODEL UPDATE

Given all the improvements made to the Village's sanitary system, and other needs that developed in the last 10 years, the Village also re-evaluated the hydraulic model of the study area, that was previously developed in 2007 and 2008. The hydraulic model was updated and recalibrated using a more complete and up-to-date flow monitoring data set to assess the present level of service and potential improvements to the sanitary system.

Subsequent to the hydraulic model update, a report was submitted in 2022 outlining the main areas of concern:

- **Undersized siphon at St. Charles Road –** The Village would arrange to clean to improve flow characteristics. An additional siphon is not an option owing to major utilities in St. Charles Road
- **Underused capacity of discharge sewers downstream of South Villa Lift Station –** An in-depth evaluation of the options for improving the operations at South Villa is presented in Section 5 and Appendix B of this report.
- **Excess flows in both North and South Villa -** As most of these sewers have now been lined it is anticipated that the excess flows are from foundation drains, laterals, and manholes.
- **Storage at North and South Villa-** The Village would explore options for storing wet-weather flow upstream of the siphon along Villa Avenue between Vermont Street and St. Charles Road.

As the Village considers increasing the South Villa Lift Station capacity, the feasibility of constructing a wet-weather storage tank adjacent to the station would also be explored.

4. UNLINED SANITARY SEWERS

Exhibits A-6, A-7 and A-8 and Tables A-3, A-4 and A-5 present all unreinforced concrete sewers, VCP sewers and sewers lacking material data that are recommended for lining/rehabilitation/condition assessment, within the separated sewers areas of North and South Villa, downstream of S. Villa pump station and east of Rte. 83. A portion of these sewers remained unlined due to absence of TV data and therefore condition assessment. While the majority of VCP sewers were assessed to be in satisfactory condition upon assessment in 2015, further review is required to ascertain their current state.

Exhibits A-7 and A-8 also present all the unlined sewers that have never been televised or were televised almost 10 years ago and will need re-televising to confirm their current condition.

Furthermore, several sewers require rehabilitation; but, they could not be addressed either due to budget limitations or particular constraints outlined in the subsequent sections.

4.1. SPECIAL CONDITION – CONSTRAINTS WITH ALIGNMENT OR LOCATION

Several unreinforced concrete/VCP sewers within the separated areas of North and South Villa, were determined to need lining. However, they could not be rehabilitated due to challenges in sewer alignment such as bends or changes in pipe size.

Additionally, certain sewers situated on school property were left unlined. The Village intends to initiate discussions with the School District to address these sewers as part of their capital improvements program.

Table 3 provides an overview of sewers that were not lined, together with the reasons.

Table 3 - Special Condition - Unlined Sewers

Street	Upstream Manhole	Downstream Manhole	Measured Diameter	Comments
Addison Rd.	3-026	3-025	8	VCP with 2 bends, 20' apart
Summit	6-079046	6-046	8	VCP Pipe with severe bend outside MH 6-046.
Ardmore 25'Rand	6-150	6-167	10	VCP pipe with 6" choker plate at DSMH
Ardmore/HS	6-151	6-927	10	VCP pipe in School Property
Willow Brook HS	6-152	6-151	10	VCP pipe in School Property
Willow Brook HS	6-153	6-152	10	VCP pipe in School Property

Furthermore, certain large VCP and concrete sewers were identified as relief or interceptor sewers in good condition and were not recommended for lining.

4.2. SPECIAL CONDITION – ARDMORE AVENUE

The 2008-2009 Sewer Rehabilitation Program plans called for lining of the sewer segment 1-083 to 1-084 on Ardmore Avenue. The CCTV review for this segment determined four major defects, two of which would need point repairs. One of these defects was located under the bridge abutment foundation and the pipe was severely compromised by the intrusion of the concrete foundation into the sidewall. Lining this segment would only cause more issues with buckling of the liner in the vicinity of the bridge abutment, thus reducing the capacity and presenting maintenance concerns.

It was recommended to the Village to consider an alternate solution of laying a new 8" sewer to the west of Ardmore Avenue and abandoning the existing sewer, as seen in Exhibit A-8.

4.3. UNREINFORCED CONCRETE LATERALS

The Village is accountable solely for the main sewer lines and any factory lateral connections. Many sewers in North Villa, and some in South Villa, are constructed of unreinforced concrete and there are numerous factory laterals made of unreinforced concrete. Post-lining CCTV from 2010, 2014 and 2020 was reviewed and unreinforced concrete laterals connected to lined sewers were identified and presented in Exhibit A-9 and Table A-6.

4.4 SEWERS CROSSING RTE.83

The Village has both Sanitary and Combined sewers crossing Rte. 83. The condition of these sewers has not been recently evaluated and it is recommended that the Village prioritize the condition assessment of these lines. While this report is focused on the sanitary system, the combined sewers are included here as there will be an economy of scale when using a specialist company if all sewers are inspected.

Sanitary Sewers

- 10" from Basin 4
    - The Village could potentially televise this at night as there would be minimal flow
- Three sewers: 2 x 24" into plant, 1 x 18" into plant
    - These can be by-passed to each other – but will need specialist company because of high flows

Combined Sewers

- 54" greatest concern because it is the oldest – do not know material – potentially clay tile
- 36" Wildwood – assume concrete
- 48" Highland – assume concrete
    - These should be mostly dry but will have debris and will need a high–crawler camera – again will need specialist company.

5. SOUTH VILLA EVALUATION

The South Villa Lift Station has remained an area of concern for the Village, as recurrent sanitary sewer overflows (SSOs) have occurred both upstream of the station and at the discharge of the 10-inch force main (structure 5-028). Flow monitoring and hydraulic modeling of the system in 2022 concluded that SSOs upstream of the station are expected to occur multiple times per year due to excessive inflow and infiltration (I/I) in the tributary basin. The SSOs are typically confined to the structure immediately south of the station (6-938) located on Village-owned property adjacent to Sugar Creek and therefore have low impact to the public; however, they remain an environmental concern due to their frequency and proximity to the creek.

Previous modeling of the system indicated that the frequency of upstream SSOs could be reduced substantially by increasing the lift station capacity. The downstream interceptor and relief sewer along Madison Street and Riverside Drive have a combined capacity of approximately 6.0 mgd, and therefore the station capacity could be potentially increased by approximately 50% without overloading the downstream system. Additionally, by utilizing only a portion of the downstream gravity sewer capacity, the current station operation results in upstream SSOs during wet-weather events when the WWFTF is not fully utilized.

Anecdotally, however, it is less clear that the lift station capacity can be increased without adverse impact to the downstream gravity system, as Village staff has reported observing SSOs in the discharge structure of the 10-inch force main on Villa Avenue between Madison Street and Terry Lane during wet-weather events. It is therefore expected that increasing the station capacity would require relocating the discharge of this force main or increasing the capacity of the outlet from the existing discharge structure.

To address these concerns, an evaluation of the South Villa Lift Station was conducted focusing on the following:

- Station condition and potential for upgrades/expansion
- Condition of the force mains and outlet structures
- Existing hydraulic performance of the station
- Alternatives for improvements

The findings of this evaluation are summarized in a detail in Appendix B of this report, and alternatives to increase the capacity of the station are discussed.

5.1. LIFT STATION ASSESSMENT

An inspection of the South Villa Lift Station was conducted on October 17, 2023. The assessment determined that the South Villa Lift Station is generally in sound condition and operating as designed. However, increasing the capacity of the station to mitigate the risk of upstream SSOs was not recommended, as it would increase the risk of SSOs at the force main discharge structure and potentially

other locations further downstream due to treatment capacity limitations. A detailed evaluation of the South Villa Lift Station is provided in Appendix B.

6. MANHOLE INSPECTIONS

The Village has undertaken comprehensive I/I investigations in the separated parts of the Village since the 2008 Master Plan. The Village has inspected 1,095 sanitary manholes since 2013. All manholes located in private backyards and along Sugar Creek have been rehabilitated or replaced. There are 46 manholes that were inspected prior to 2016 but were not assessed for rehab recommendations.

In 2019, the Village began manhole inspections in the North Villa and Industrial Triangle areas. In 2022, manhole inspections were completed for the North Villa area. In 2023, the Village continued manhole inspections in the North and South Villa areas to identify additional sources of I/I prior to updating the Master Plan. There are 515 manholes inspected between 2019 and 2023, that have undergone thorough review.

A report summarizing the investigations, results, and rehabilitation recommendations from manhole inspections between 2019 and 2023 is included in Appendix C.

7. RECOMMENDATIONS

The goal of this Master Plan update was to provide an overview of the improvements to the existing collection system since the 2008 Master Plan and to prioritize the remaining rehabilitation work.

The 2008 Master Plan proposed a phased approach to undertake all work identified in the Compliance Commitment Agreement with IEPA and any additional work that was identified thereafter. Exhibit A-11 summarizes the status of all the improvements that were planned over a 10-year period starting in 2008.

RJN is now modifying and re-prioritizing the remaining items in the Master Plan and addressing new priorities within current financial restraints. Continued implementation of the Master Plan will enhance the sewer system capacity and operation.

RJN Group has identified the critical areas that the Village should focus on over the next 10-year period, together with planning level engineering and construction costs.

The costs associated with these projects are based on unit costs developed from recent experience with construction costs for similar work in the area. The unit costs for sewer lining include a 25-30 percent allowance over the estimated construction cost to account for any point repairs. Table 4 presents these unit costs for sewers installed in paved areas, lining and T-lining costs, rehabilitation of manholes in both paved and unpaved areas and manhole inspections. These costs do not include any engineering, legal and administrative costs.

Table 4 - Estimated Unit Costs

Item	Units	Cost/Unit
New 8" sewer installation	LF	$1,000
Manhole Rehabilitation - Paved Area	Each	$3,300
Manhole Rehabilitation - Unpaved area	Each	$3,000
CIPP Lining - 8" - 12" sewer	LF	$80
T-lining Concrete Factory Wye, 20' + Cleanout	Each	$6,000
Manhole Inspection	Each	$150
Cleaning and Televising 8" -12" Sewers	LF	$7

These planning level unit cost estimates include the following assumptions:

- Gravity Sewer Depths average 10-12-feet
- No rock excavation
- Sheeting, shoring and dewatering will be required.
- No property or easement acquisition costs
- No specialty construction costs
- Construction by private contractors
- A 20%-30% allowance for point repairs

The following improvements are recommended for the Village to start implementing within the next 10 years. A brief description of each project is presented later in this Section.

- Ardmore Avenue Sewer Replacement
- Inspect and Clean Siphon crossing St. Charles Road
- Cleaning and Televising of sewers with no/very old TV- Follow up with Rehabilitation Recommendations and Prioritization
- Lining remaining unlined unreinforced concrete sewers
- Lining concrete factory Wye connections
- Remaining Manhole Inspections in separated areas
- Phased Manhole Rehabilitation
- Storage Upstream of the Siphon
- Storage at South Villa Lift Station

7.1. ARDMORE AVENUE SEWER REPLACEMENT

As outlined in Section 4.2, the planned lining of sewer segment 1-083 to 1-084 on Ardmore Avenue could not proceed as intended. The Village was advised to explore an alternative approach, which involved installing a new 8" sewer to the west of Ardmore Avenue and decommissioning the current sewer line.

Another option was re-aligning the water main, installing a new manhole and lining the current segment.

The current condition of the sewer remains uncertain. The Village is urged to expedite its inspection to assess its present state. Following the inspection findings, it is advised that the Village explore various alternatives for the new sewer alignment or its rehabilitation and conduct a thorough cost analysis for each option.

Preliminary construction estimates for replacing the entire length of the sanitary sewer are estimated to be between $250,000 and $ 350,000.

7.2. INSPECT AND CLEAN SIPHON CROSSING ST. CHARLES ROAD

The 2022 model indicated that the largest contributor to SSO risk in the North sanitary system is the dual siphon crossing St. Charles Road on Villa Avenue. It was estimated that the effective capacity of the siphon—which consists of an 8-inch and 14-inch pipe—is 86% of its full capacity. Not only does this contribute to recurring SSOs immediately upstream near Villa and Maple, but it also limits the effectiveness of relief sewers both upstream and downstream, resulting in underutilization of the WWFTF.

It is expected that inspection and cleaning of the siphon could immediately improve the overall capacity of the system. It is likely that some of the material occluding the pipes has built up over a long period of

time and may require more than routine cleaning methods. It is recommended that the Village further investigate inspection and cleaning options as an immediate priority.

7.3. CCTV PROGRAM

As mentioned in Section 4, there are many unlined sewers (concrete, VCP, unknown) that have never been televised or were televised almost 10 years ago and will need re-televising to confirm their current condition. The Village is capable of cleaning and televising sewers with diameters ranging from 6 to 10 inches in-house, while sub-contracting for the cleaning and televising of larger sewers. The cost of cleaning and televising all sewers is estimated to be between $ 300,000 and $400,000, should the Village decide to subcontract cleaning and televising sewers of all sizes.

The Village should prioritize this task, starting with the sewer segment 1-083 to 1-084 on Ardmore Avenue and all unreinforced concrete sewers so the sewer condition can be evaluated, and appropriate rehabilitation methods can be recommended. The cost for cleaning and televising the unreinforced concrete sewers is estimated at $55,000.

7.4. LINING REMAINING UNLINED UNREINFORCED CONCRETE AND OTHER MATERIAL SEWERS

It is known that a large area of the town was constructed with un-reinforced concrete sanitary sewers which are deteriorating and are at risk of collapse. The Village has lined the majority of these sewers in the rehabilitation projects of 2010, 2014 and 2020. The remaining unreinforced concrete sewers, mostly located in Basins 1 and 3, are in poor condition and subject to excessive rates of infiltration and failure.

It is recommended that the Village prioritize the rehabilitation of the remaining unlined unreinforced concrete sewers, over unlined clay, or cast-iron sewers. The cost of lining all the remaining unlined unreinforced concrete sewers with diameters ranging from 8”-12” is estimated to be between $550,000 and $ 650,000.

Once the known unreinforced concrete sewers are rehabilitated, the Village can continue with the rehabilitation of the sewers of other materials with diameters ranging from 8”-12”, the cost of which is estimated to be between $2.5 mil and $3.0 mil.

7.5. LINING CONCRETE FACTORY WYE CONNECTIONS

Wye connections serve as a link between the private plumbing system of a property and the public sewer system. Proper installation and maintenance of concrete factory lateral connections are essential to prevent issues such as leaks, blockages, or structural failures that can compromise the performance and integrity of the sewer system.

Although the Village has addressed lining of the mainline unreinforced concrete sewers, there are numerous factory Wye connections to these sewers, mainly in North Villa, although there are some in

South Villa that are made of unreinforced concrete. Poorly constructed or deteriorated lateral connections can compromise the structural integrity of the sewer line, leading to collapses at the connections, blockages, or sinkholes. Furthermore, it is understood that certain sewers along Rand Road, with unreinforced concrete factory Wyes are approximately 30 feet deep, which could result in substantial costs in the event of a failure at the lateral connection.

The Village is advised to prioritize lining all unreinforced concrete factory Wye connections with a short liner at a minimum, to stabilize them, beginning with the deepest sewers. However, lining the laterals to the back of curb is recommended, as it entails minimal additional costs and offers significant added benefits.

Currently approximately 965 unreinforced concrete factory laterals have been identified. However, there are lined sewers in Basins 1 and 3 for which post-lining TV is not available. It is estimated that there are an additional 170 laterals of concern on these segments. Additionally, the unreinforced concrete sewers that are yet to be lined will also have concrete factory wye connections. The cost of rehabilitating 1,150 concrete factory wye connections with lining to the back of curb is estimated to be between $ 6.0 mil and $7.0 mil.

7.6. MANHOLE INSPECTION PROGRAM

It is recommended that the Village continue with its comprehensive manhole inspection program to address a total of 309 uninspected manholes in Basin 2 in North Villa and Basins 4, 5, 6 and 7 in South Villa, as shown in Exhibit A-10, and prioritize defects for rehabilitation. Cost of inspecting the remaining 309 manholes is estimated to be between $40,000 and $50,000.

7.7. MANHOLE REHABILITATION

Since the development of the Master Plan in 2008, the Village addressed the rehabilitation of manholes located in private backyards and along Sugar Creek. The Village continued inspecting manholes between 2019 and 2023, in preparation for updating the Master Plan and identified a significant number of defects contributing to I/I to the system. The highest concentration of manhole defects and potential I/I sources was observed in the North Villa and Industrial Triangle basins during the 2019 survey, contributing approximately 44% of the estimated total I/I. A detailed summary of all the manholes inspected, identified defects and rehabilitation recommendations is presented in Appendix C.

The manhole rehabilitation recommendations include:

- replace bolts in cover
- replace cover
- replace frame and bolted cover
- replace frame and cover
- seal and adjust frame

- internal chimney seal
- structural lining
- grout wall joints, grout cone, grout bottom 18", full curtain grout
- repair bench and trough, replace bench and trough
- epoxy coating
- replace manhole
- uncover/raise buried manhole, and clean manhole

The overall recommendations for a given structure can include one or more individual recommendations. All inspected manholes were assigned a rehab rating of one (1) through five (5), with one meaning no rehab needed, and five meaning immediate rehab needed. The defects within structures which received a rating of four (4) or higher were considered and referred to as first priority. A total of 405 manholes necessitate repair. Table 5 presents the cost of rehabilitating just the manholes with first priority defects as well as costs associated with completing the remaining rehabilitation recommendations (rehabilitation priority 2-3).

Table 5- Manhole Rehabilitation Cost

Recommended Rehabilitation	Cost
First Priority Rehabilitation	
Sanitary Manholes	$354,900
Contingency, Design, and Construction1	$198,800
Sub-Total	**$553,700**
Remaining Rehabilitation	
Sanitary Manholes	$1,064,100
Contingency, Design, and Construction1	$595,900
Sub-Total	**$1,660,000**
Total	**$2,213,700**

1. Assumes part-time construction observation.

7.8. STORAGE UPSTREAM OF THE SIPHON

Based on the 2022 hydraulic model, it is recommended that the Village explore options for storing wet-weather flow upstream of the siphon along Villa Avenue between Vermont Street and St. Charles Road. It is expected that the area near the intersection of Villa and Vermont would be the most viable location for a large storage basin—in the range of 1.1 million gallons to provide a 1-year level of protection—but further study is required to determine the feasibility of constructing such a large-scale improvement in this area. It is recommended that the Village implement a program of aggressive I/I remediation including lateral rehabilitation and foundation drain removal, in lieu of constructing a new siphon.

7.9. STORAGE AT SOUTH VILLA LIFT STATION

As upsizing the South Villa Lift Station is infeasible, it is recommended that the construction of a wet-weather storage tank adjacent to this location be explored. The 2022 model indicated that storage volume in the range of 1.5 million gallons would be required to achieve a 1-year level of protection. While a facility of this size may not be feasible at this location, it may be possible to construct a more modest improvement that would minimize the frequency of SSOs at the station.

8. PHASING

The Village is making efforts to rehabilitate all the sewers, laterals and manholes within the separate sanitary system. Major infrastructure improvements are planned and tracked through the Capital Improvement Plan (CIP). These improvements and other sanitary sewer improvements , maintenance and operation programs are funded through user fees included in wastewater rate.

After reviewing the scope of improvements required to meet the collection system's needs, it is recommended that the Village consider phasing the improvements into smaller projects. Spreading the work over a multi-year period would allow the Village to keep the costs manageable, with regards to the Village's budget. It is more cost-effective to undertake larger rehabilitation projects on a rotating basis rather than smaller projects of different types each year. Consequently the proposed phasing cycles between lining, manhole rehaiblitation and sewer lateral rehabilitation on a three-year basis.

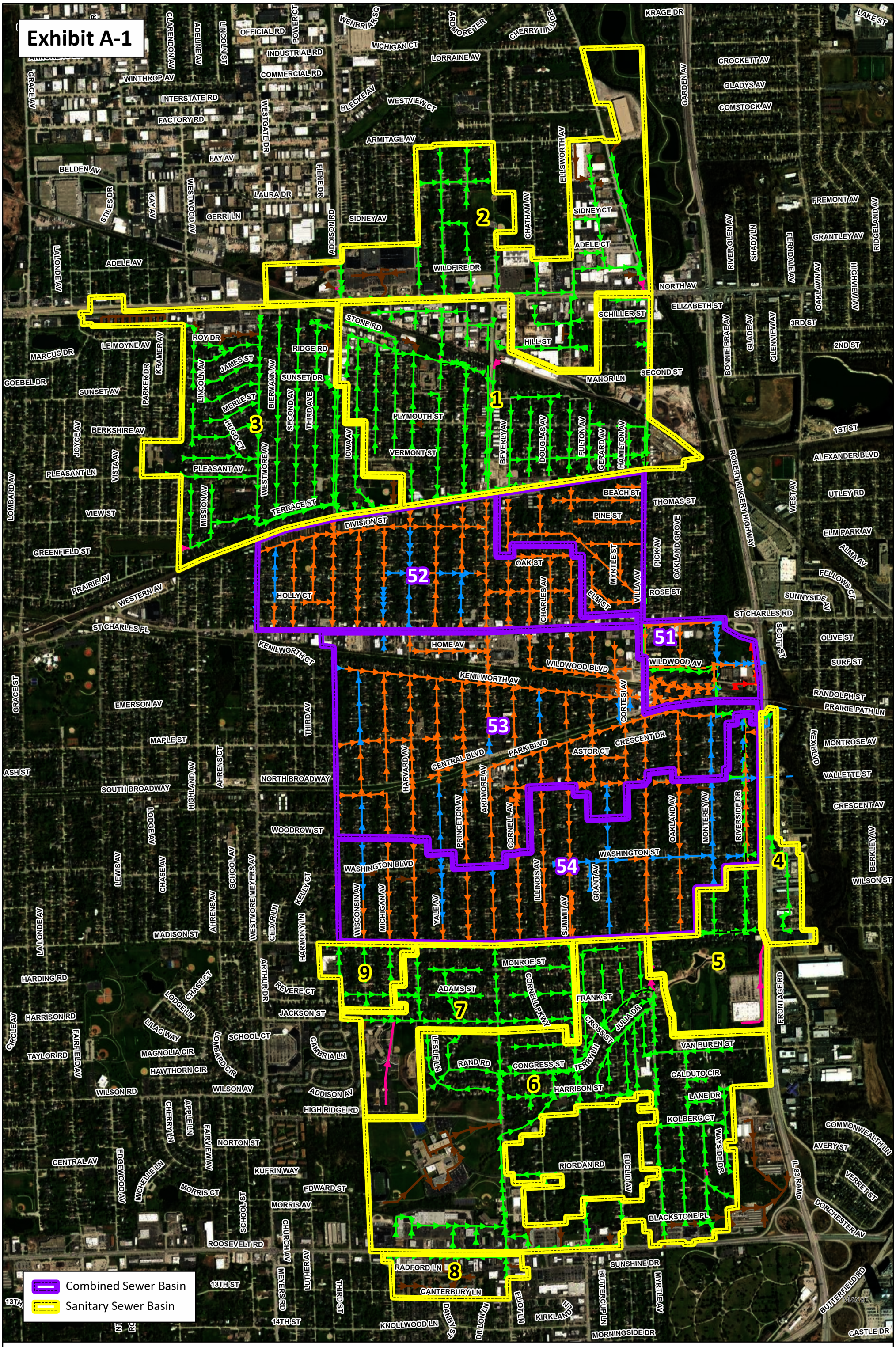
The recommended plan costs and phasing for the 10-year plan are presented in Exhibit A-11.

The Village has used revolving loan monies from IEPA in the past for major rehabilitation projects. It would be most cost-effective to undertake the lateral lining as a major capital improvement project. The connection is "owned" by the Village but the lateral beyond that is not. However, the bulk of the cost in lateral rehabilitation is in the initial liner installation at the connection – the extension is relatively inexpensive. Consequently the Village could look at lining the connection with loan monies and pay for the lateral extension (this report suggests to back of curb) with Village monies – which could in turn be shared with the homeowner.

It is anticipated that the phasing will be modified between the draft and final reports.

APPENDIX A – SANITARY SYSTEM UPDATES

Exhibit A-1

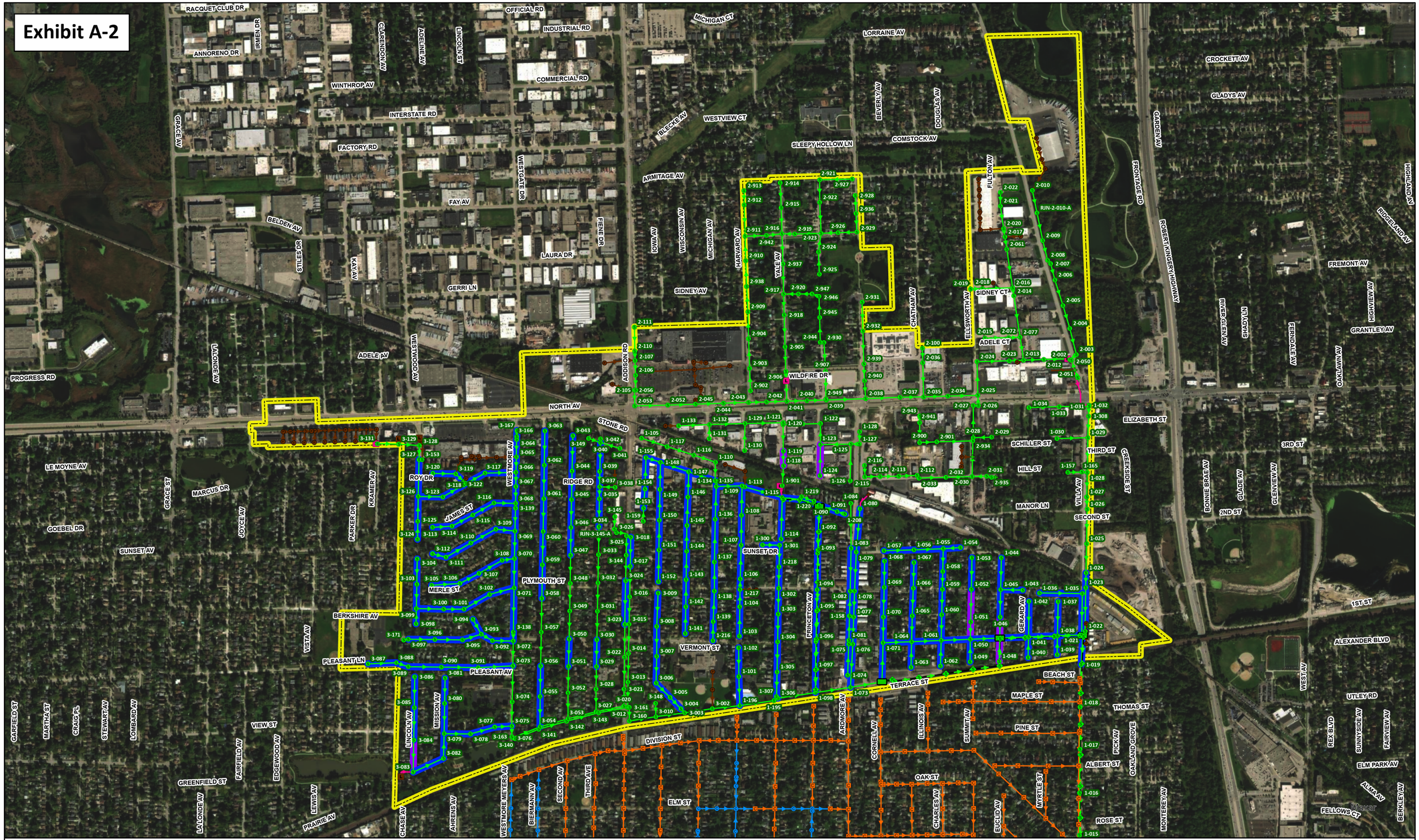


rjngroup Engineering infrastructure for tomorrow

Village of Villa Park, IL
2023 Master Plan
Sanitary and Combined Sewer Basins
May 2024

\\whe-panzura1\OFFICE-11\WHEATON\PROJECTS\VillaPark_IL\11382701 2023 Master Plan Preparation\5.0 GIS\Map Documents\Map Documents - Exhibits\Overall Map.aprx - Date Printed: 5/2/2024 10:43 AM

Exhibit A-2



rjngroup
Engineering infrastructure for tomorrow

- Combined Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- Sanitary Sewer
- Separated Sewer
- SSO
- Force Main
- Private Sanitary Sewer
- Lined/Rehabilitated Sewer
- Replaced Sewer

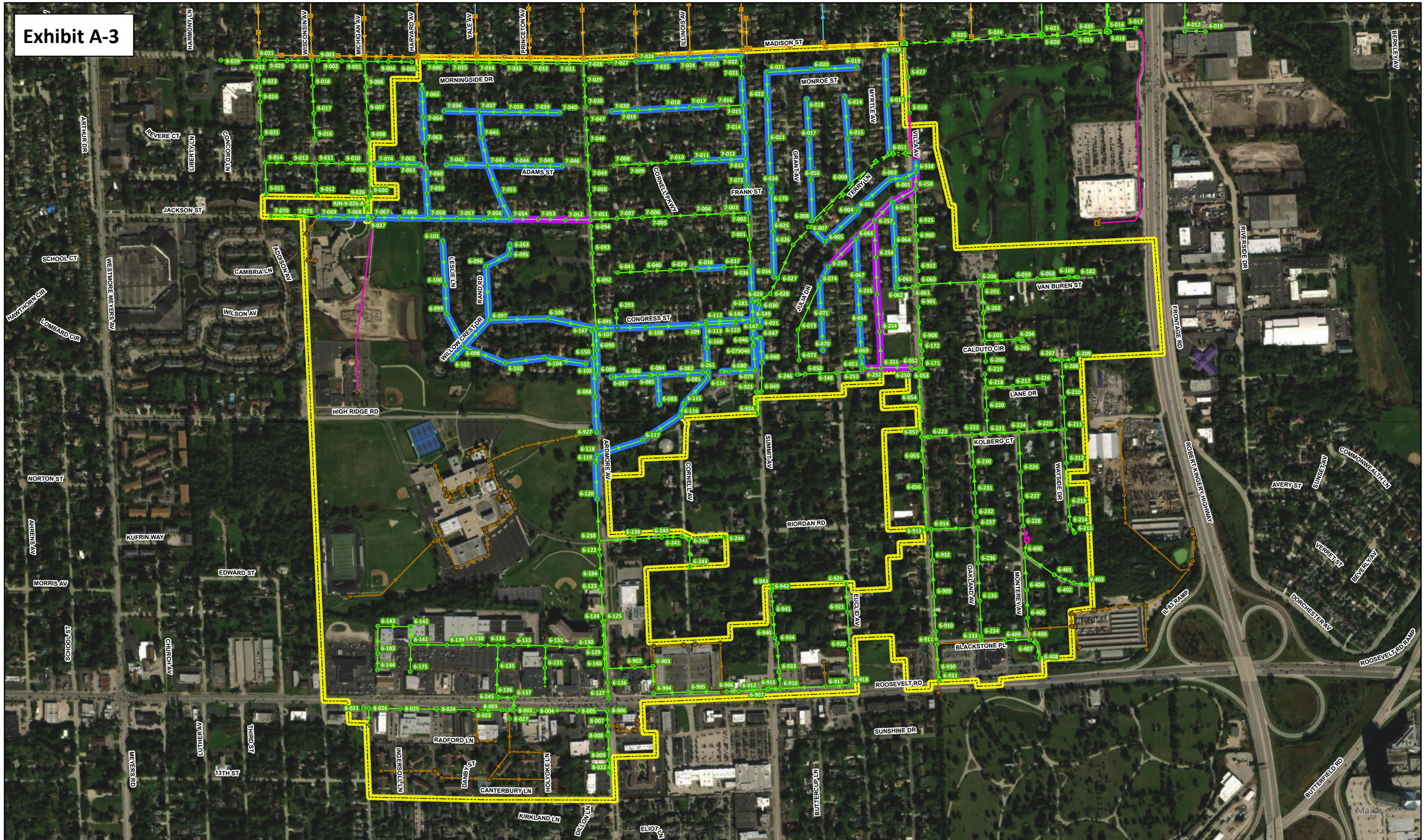
0 1,000 2,000
Feet

N W E S

Village of Villa Park, IL
2023 Master Plan
Lined Sewers - North Villa
May 2024

\\whe-panzura1\OFFICE-11\WHEATON\PROJECTS\VillaPark_IL\11382701 2023 Master Plan Preparation\5.0 GIS\Map Documents\Map Documents - Exhibits\Lined Segments.aprx - Date Printed: 5/2/2024 10:54 AM

Exhibit A-3



rjngroup
Engineering infrastructure for tomorrow

- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- Sanitary Sewer
- Separated Sewer
- SSO
- Force Main
- Private Sanitary Sewer
- South Villa
- Lined/Rehabilitated Sewer
- Replaced Sewer

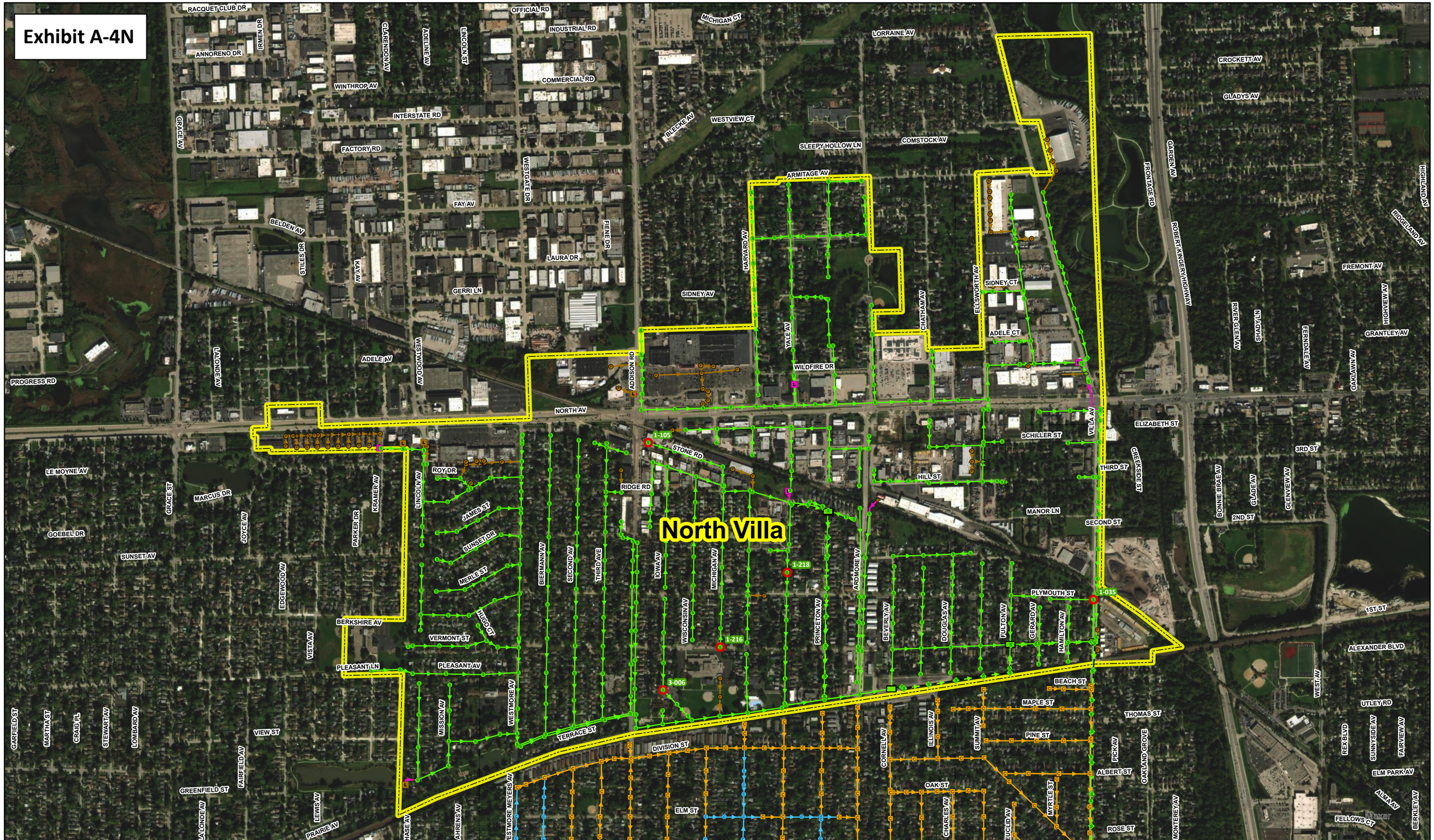
0 500 1,000
Feet

N W E S

Village of Villa Park, IL
2023 Master Plan
Lined Sewers - South Villa
May 2024

\\whe-panzura1\OFFICE-11\WHEATON\PROJECTS\VillaPark_IL\11382701 2023 Master Plan Preparation\5.0 GIS\Map Documents\Map Documents - Exhibits\Lined Segments.aprx - Date Printed: 5/30/2024 10:55 AM

Exhibit A-4N



rjngroup
Engineering infrastructure for tomorrow

- Rehabilitated Manhole
- Combined Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- Sanitary Sewer
- Separated Sewer
- SSO
- Force Main
- Private Sanitary Sewer

0 500 1,000
Feet

N W E S

Village of Villa Park, IL
2023 Master Plan
Rehabilitated Manholes - North
May 2024

Exhibit A-4S



rjngroup Engineering infrastructure for tomorrow

- Rehabilitated Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- Sanitary Sewer
- Separated Sewer
- SSO
- Force Main
- Private Sanitary Sewer

0 500 1,000 Feet

N W E S

Village of Villa Park, IL
2023 Master Plan
Rehabilitated Manholes - South
May 2024

\\whe-panzura1\OFFICE-11\WHEATON\PROJECTS\VillaPark_IL\11382701 2023 Master Plan Preparation\5.0 GIS\Map Documents\Map Documents - Exhibits\Manhole Exhibits.aprx - Date Printed: 5/23/2024 1:59 PM

Exhibit A-5

TERRY LN
JULIA DR
CROSS ST
MYRTLE AV
EUCLID AV
VILLA AV
VAN BUREN ST
OAKLAND AV
HARRISON ST

6-928 6-938 6-258 6-925 6-900 6-922 6-901 6-908 6-172 6-171 6-053 6-200
6-179 6-178 6-177 6-009 6-180 6-002 6-001 6-003 6-004 6-065 6-257 6-066 6-064 6-256 6-067 6-063 6-062 6-061 6-060 6-255 6-068 6-254 6-069 6-051 6-252 6-253 6-148 6-250 6-252

Sanitary Manhole
SSO Manhole
Lift Station
Sanitary Sewer
SSO
Force Main
Myrtle Avenue Relief Sewer
Upsized Segments

0 50 100
Feet

N W E S

rjngroup Engineering infrastructure for tomorrow

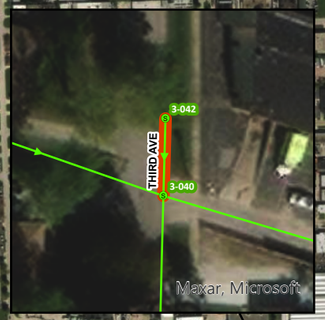
Village of Villa Park, IL
2023 Master Plan
Myrtle Avenue Relief Sewer
May 2024

\\whe-panzura1\OFFICE-11\WHEATON\PROJECTS\VillaPark_IL\11382701 2023 Master Plan Preparation\5.0 GIS\Map Documents\Map Documents - Exhibits\Myrtle Ave Relief Sewer.aprx - Date Printed: 5/30/2024 11:00 AM

Maxar, Microsoft

Exhibit A-6N





North Villa

Reinforced Concrete and Other Non-PVC Sewers to be Lined (Previously Televised)

rjngroup
Engineering infrastructure for tomorrow

- Combined Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- Sanitary Sewer
- Separated Sewer
- SSO
- Force Main
- Private Sanitary Sewers

0 1,000 2,000
Feet

N W E S

Village of Villa Park, IL
2023 Master Plan
Reinforced Concrete & Other Non-PVC Sewers to be Lined - North
May 2024

\\whe-panzura1\OFFICE-11\WHEATON\PROJECTS\VillaPark_IL\11382701 2023 Master Plan Preparation\5.0 GIS\Map Documents\Map Documents - Exhibits\May 2024 Exhibits.aprx - Date Printed: 5/23/2024 1:41 PM

Exhibit A-6S

East of Route 83

Downstream of South Villa Pump Station

South Villa

Reinforced Concrete and Other Non-PVC Sewers to be Lined (Previously Televised)

rjngroup Engineering infrastructure for tomorrow

Combined Manhole	SSO Manhole	Outfall	Combined Sewer	SSO
CSO Manhole	Diversion Structure	Private Manhole	CSO	Force Main
Sanitary Manhole	Lift Station	Private Lift Station	Sanitary Sewer	Siphon
Separated Manhole	Blind Connection	Private Blind Connection	Separated Sewer	Private Sanitary Sewers

0 1,250 2,500

Feet

N W E S

Village of Villa Park, IL
2023 Master Plan
Reinforced Concrete & Other Non-PVC Sewers to be Lined - South
May 2024

\\whe-panzura1\OFFICE-11\WHEATON\PROJECTS\VillaPark_IL\11382701 2023 Master Plan Preparation\5.0 GIS\Map Documents\Map Documents - Exhibits\May 2024 Exhibits.aprx - Date Printed: 5/30/2024 11:05 AM

Exhibit A-7N

North Villa

Reinforced Concrete and Other Non-PVC Sewers to be Televised and Rehabilitated

rjngroup
Engineering infrastructure for tomorrow

- Combined Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Combined Sewer
- CSO
- Sanitary Sewer
- Separated Sewer
- SSO
- WWFTF Outflow
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Force Main
- Private Sanitary Sewers

0 1,000 2,000
Feet

N W E S

Village of Villa Park, IL
2023 Master Plan
Reinforced Concrete & Other Non-PVC Sewers to be Televised & Rehabilitated - North
May 2024

\\whe-panzura1\OFFICE-11\WHEATON\PROJECTS\VillaPark_IL\11382701 2023 Master Plan Preparation\5.0 GIS\Map Documents\Map Documents - Exhibits\May 2024 Exhibits.aprx - Date Printed: 5/31/2024 11:21 AM

Exhibit A-7S

East of Route 83

Downstream of South Villa Pump Station

South Villa

Reinforced Concrete and Other Non-PVC Sewers to be Televised and Rehabilitated

rjngroup Engineering infrastructure for tomorrow

Combined Manhole
CSO Manhole
Sanitary Manhole
Separated Manhole
SSO Manhole
Diversion Structure
Lift Station
Blind Connection
Outfall
Combined Sewer
CSO
Sanitary Sewer
Separated Sewer
SSO
Private Manhole
Private Lift Station
Private Blind Connection
Force Main
Siphon
Private Sanitary Sewers

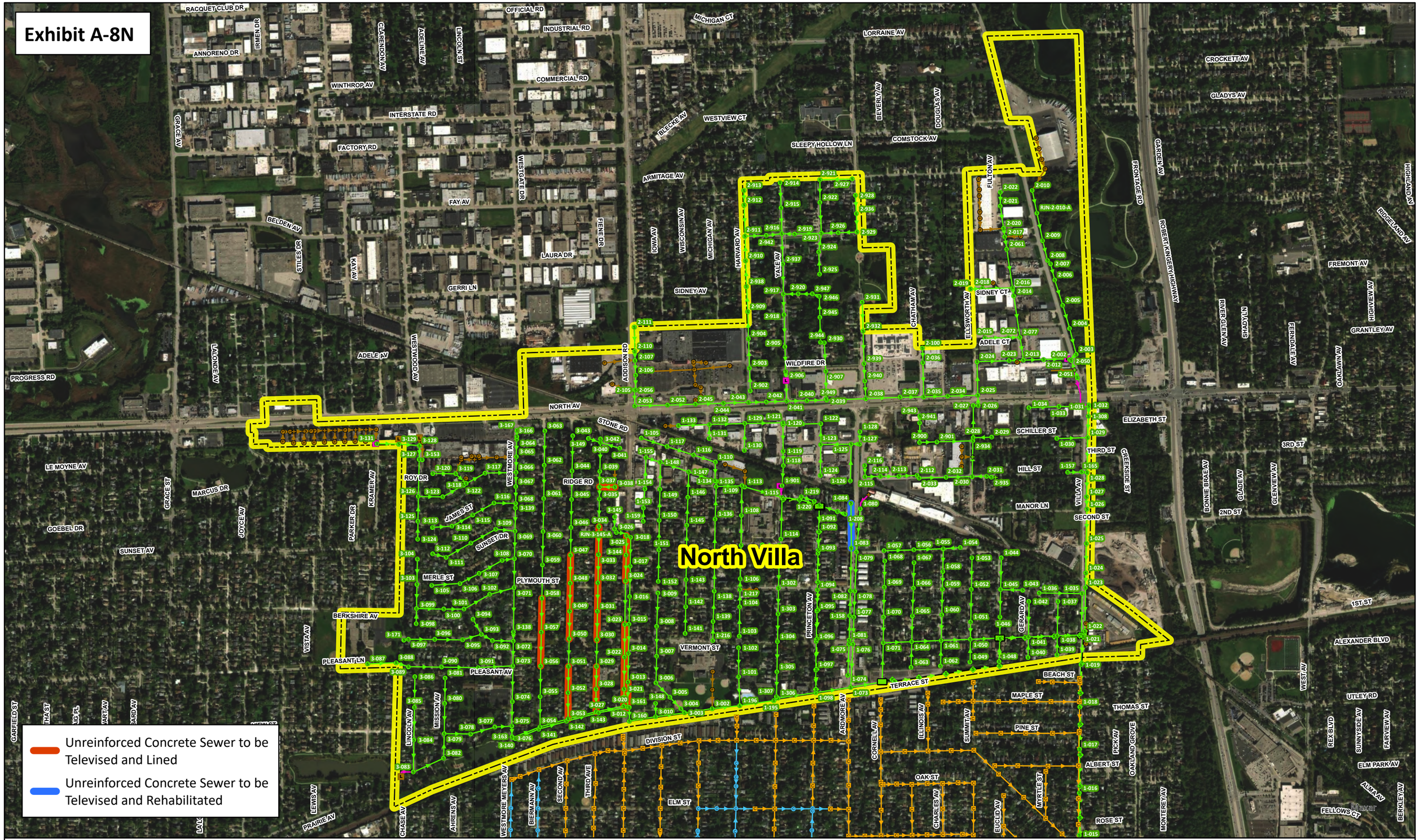
0 1,250 2,500
Feet

N W E S

Village of Villa Park, IL
2023 Master Plan
Reinforced Concrete & Other Non-PVC Sewers to be Televised & Rehabilitated - South
May 2024

\\whe-panzura1\OFFICE-11\WHEATON\PROJECTS\VillaPark_IL\11382701 2023 Master Plan Preparation\5.0 GIS\Map Documents\Map Documents - Exhibits\May 2024 Exhibits.aprx - Date Printed: 5/31/2024 11:20 AM

Exhibit A-8N



Unreinforced Concrete Sewer to be Televised and Lined

Unreinforced Concrete Sewer to be Televised and Rehabilitated

rjngroup
Engineering infrastructure for tomorrow

- Combined Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- Sanitary Sewer
- Separated Sewer
- SSO
- Force Main
- Private Sanitary Sewers
- Combined Sewer
- CSO
- Sanitary Sewer
- Separated Sewer
- SSO
- WWFTF Outflow

0 1,000 2,000
Feet

N W E S

Village of Villa Park, IL
2023 Master Plan
Unreinforced Concrete Sewers to be Televised & Rehabilitated - North Villa
May 2024

\\whe-panzura1\OFFICE-11\WHEATON\PROJECTS\VillaPark_IL\11382701 2023 Master Plan Preparation\5.0 GIS\Map Documents\Map Documents - Exhibits\May 2024 Exhibits.aprx - Date Printed: 5/30/2024 11:41 AM

Exhibit A-8S

East of Route 83

Downstream of South Villa Pump Station

South Villa

Unreinforced Concrete Sewer to be Televised and Lined

rjngroup Engineering infrastructure for tomorrow

Combined Manhole | Separated Manhole | Lift Station | Private Manhole | Force Main
CSO Manhole | SSO Manhole | Blind Connection | Private Lift Station | Siphon
Sanitary Manhole | Diversion Structure | Outfall | Private Blind Connection | Private Sanitary Sewers

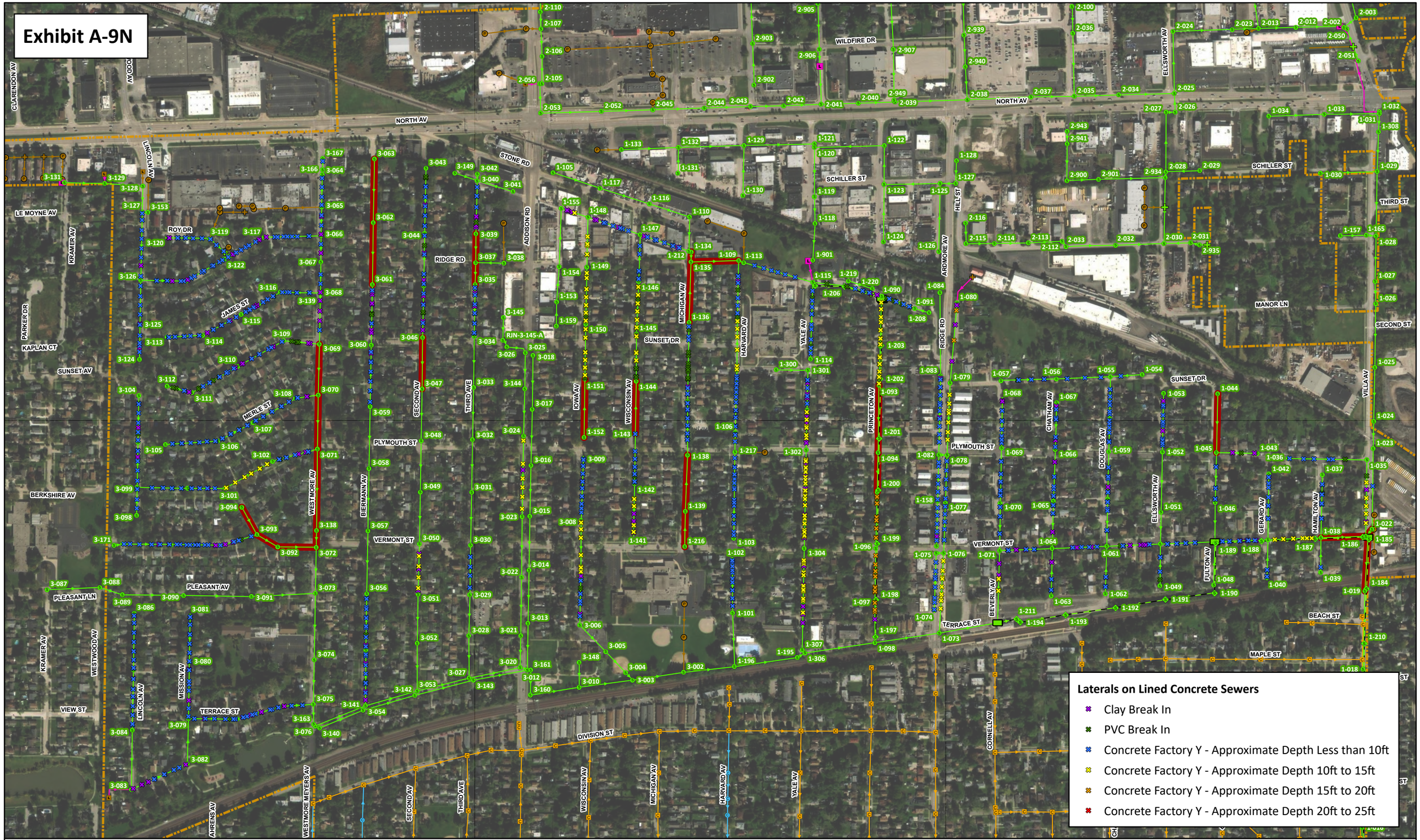
0 1,250 2,500
Feet

N W E S

Village of Villa Park, IL
2023 Master Plan
Unreinforced Concrete Sewers to be Televised & Rehabilitated - South
May 2024

\\whe-panzura1\OFFICE-11\WHEATON\PROJECTS\VillaPark_IL\11382701 2023 Master Plan Preparation\5.0 GIS\Map Documents\Map Documents - Exhibits\May 2024 Exhibits.aprx - Date Printed: 5/30/2024 11:44 AM

Exhibit A-9N



Laterals on Lined Concrete Sewers

- Clay Break In
- PVC Break In
- Concrete Factory Y - Approximate Depth Less than 10ft
- Concrete Factory Y - Approximate Depth 10ft to 15ft
- Concrete Factory Y - Approximate Depth 15ft to 20ft
- Concrete Factory Y - Approximate Depth 20ft to 25ft

rjngroup Engineering infrastructure for tomorrow

- Combined Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- Sanitary Sewer
- Separated Sewer
- SSO
- Force Main
- Private Sanitary Sewers
- Lined Concrete Segment Missing CCTV
- Villa Park Municipal Boundary

0 500 1,000 Feet

N W E S

Village of Villa Park, IL
2023 Master Plan
Laterals on Lined Concrete Sewers - North
May 2024

\\whe-panzura1\OFFICE-11\WHEATON\PROJECTS\VillaPark_IL\11382701 2023 Master Plan Preparation\5.0 GIS\Map Documents\Map Documents - Exhibits\Laterals Connected to Lined RCP Sewers.aprx - Date Printed: 5/30/2024 9:25 AM

Exhibit A-9S



Laterals on Lined Concrete Sewers

- Clay Break In
- PVC Break In
- Concrete Factory Y - Approximate Depth Less than 10ft
- Concrete Factory Y - Approximate Depth 10ft to 15ft
- Concrete Factory Y - Approximate Depth 15ft to 20ft
- Concrete Factory Y - Approximate Depth 20ft to 25ft

rjngroup Engineering infrastructure for tomorrow

- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Private Manhole
- Private Blind Connection
- Combined Sewer
- Sanitary Sewer
- Separated Sewer
- SSO
- Force Main
- Private Sanitary Sewers
- Villa Park Municipal Boundary
- Lined Concrete Segment Missing CCTV

0 250 500 Feet

N W E S

Village of Villa Park, IL
2023 Master Plan
Laterals on Lined Concrete Sewers - South
May 2024

\\whe-panzura1\OFFICE-11\WHEATON\PROJECTS\VillaPark_IL\11382701 2023 Master Plan Preparation\3.0 GIS\Map Documents\Map Documents - Exhibits\Laterals Connected to Lined RCP Sewers.aprx - Date Printed: 5/30/2024 9:29 AM

Exhibit A-10N

North Villa

Manhole Not Inspected

Decade Constructed

- 1920s
- 1950s
- 1960s
- 1970s
- 1980s
- 1990s
- 2000s
- 2010s
- Unknown

rjngroup
Engineering infrastructure for tomorrow

- Combined Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- Sanitary Sewer
- Separated Sewer
- SSO
- Force Main
- Private Sanitary Sewer

0 1,000 2,000
Feet

N W E S

Village of Villa Park, IL
2023 Master Plan
Uninspected Manholes by Age - North
May 2024

\\whe-panzura1\OFFICE-11\WHEATON\PROJECTS\VillaPark_IL\11382701 2023 Master Plan Preparation\5.0 GIS\Map Documents\Map Documents - Exhibits\Manhole Exhibits.aprx - Date Printed: 5/23/2024 1:53 PM

Exhibit A-10S

East of Route 83

Downstream of South Villa Pump Station

South Villa

Manhole Not Inspected

Decade Constructed

- 1920s
- 1950s
- 1960s
- 1970s
- 1980s
- 1990s
- 2000s
- 2010s
- Unknown

Manhole Inspected, Needs Rehabilitation

Combined Manhole	SSO Manhole	Outfall	Combined Sewer	SSO
CSO Manhole	Diversion Structure	Private Manhole	CSO	Force Main
Sanitary Manhole	Lift Station	Private Lift Station	Sanitary Sewer	Siphon
Separated Manhole	Blind Connection	Private Blind Connection	Separated Sewer	Private Sanitary Sewer

0 1,250 2,500

Feet

N W E S

rjngroup Engineering infrastructure for tomorrow

Village of Villa Park, IL
2023 Master Plan
Uninspected Manholes by Age - South
May 2024

\\whe-panzura1\OFFICE-11\WHEATON\PROJECTS\VillaPark_IL\11382701 2023 Master Plan Preparation\5.0 GIS\Map Documents\Map Documents - Exhibits\Manhole Exhibits.aprx - Date Printed: 5/23/2024 1:56 PM

Village of Villa Park
Proposed 15-year Sanitary Improvements

Item No.	Improvement	Cost	Units	Quantity	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
1	Ardmore Avenue New Sewer Construction	$350,000			$350,000									
2	Inspect and Clean Siphon Crossing St.Charles Rd.	TBD												
3	Storage Upstream of Siphon	TBD												
4	Storage at South Villa Lift Station	TBD												
5	Sanitary Sewer CCTV (Unreinforced Concrete)	$55,000	LF	7,650	$55,000									
6	Sanitary Sewer CCTV (Concrete, non-PVC, Others)	$230,000	LF	48,000			$230,000							
7	Rehabilitate Unlined Unreinforced Sewers	$650,000	LF	7,650		$650,000								
8	Rehabilitate Unlined remaining non-PVC sewers	$2,000,000	LF	25,350				$500,000			$500,000			$500,000
9	Rehabilitate Concrete Factory Wyes	$7,000,000	Each	965					$500,000			$500,000		
10	Manhole Inspection	$50,000	Each	309	$50,000									
11	Manhole Rehabilitation	$2,213,700	Each	405			$250,000			$500,000			$500,000	
	TOTAL	**$12,548,700**	**0**		**$455,000**	**$650,000**	**$480,000**	**$500,000**	**$500,000**	**$500,000**	**$500,000**	**$500,000**	**$500,000**	**$500,000**

Village of Villa Park

Rehabilitated Sewers (Exhibit A-2, A-3)

Table A-1

ASSET ID	USMH	DSMH	MATERIAL	DIAMETER (in)	Rehab Type	ROUTE	LENGTH
6-025_6-034	6-025	6-034	VCP	8	Lining	<Null>	375
1-076_1-073	1-076	1-073	VCP	10	Lining	ARDMORE AVE	506
1-074_1-075	1-074	1-075	VCP	10	Lining	ARDMORE AVE	364
1-208_1-091	1-208	1-091	VCP	8	Lining	RIDGE RD	94
7-074_7-062	7-074	7-062	VCP	8	Lining	ADAMS ST	178
1-101_1-196	1-101	1-196	VCP	8	Lining	HARVARD AVE	341
1-136_1-135	1-136	1-135	CONCRETE	8	Lining	MICHIGAN AVE	383
1-107_1-108	1-107	1-108	CONCRETE	8	Lining	HARVARD AVE	349
1-106_1-107	1-106	1-107	CONCRETE	8	Lining	HARVARD AVE	394
6-116_6-115	6-116	6-115	CAST IRON	12	Lining	<Null>	103
6-117_6-116	6-117	6-116	CONCRETE	12	Lining	<Null>	375
1-150_1-149	1-150	1-149	CONCRETE	8	Lining And Point Repair	IOWA AVE	362
3-083_3-082	3-083	3-082	CONCRETE	10	Lining	TERRACE ST	389
6-118_6-117	6-118	6-117	CONCRETE	12	Lining And Point Repair	<Null>	391
1-023_1-022	1-023	1-022	CONCRETE	18	Lining	VILLA AVE	510
1-024_1-023	1-024	1-023	VCP	18	Lining	VILLA AVE	171
1-020_1-019	1-020	1-019	CONCRETE	21	Lining	VILLA AVE	341
3-055_3-054	3-055	3-054	CONCRETE	10	Lining	BIERMANN AVE	354
6-022_6-023	6-022	6-023	VCP	8	Lining	<Null>	368
7-014_7-013	7-014	7-013	VCP	8	Lining	SUMMIT AVE	221
7-015_7-014	7-015	7-014	VCP	8	Lining	SUMMIT AVE	223
6-102_6-098	6-102	6-098	CONCRETE	10	Lining	WILLOWCREST DR	139
3-095_3-093	3-095	3-093	CONCRETE	8	Lining	VERMONT ST	228
6-168_6-113	6-168	6-113	CONCRETE	12	Lining	CORNELL AVE	192
6-024_6-170	6-024	6-170	VCP	8	Lining	FRANK ST	59
6-031_6-030	6-031	6-030	VCP	8	Lining	SUMMIT AVE	176
3-086_3-085	3-086	3-085	CONCRETE	8	Lining	LINCOLN AVE	360
3-081_3-080	3-081	3-080	CONCRETE	8	Lining	MISSION AVE	297
3-080_3-079	3-080	3-079	CONCRETE	8	Lining	MISSION AVE	354
3-082_3-079	3-082	3-079	CONCRETE	10	Lining	MISSION AVE	287
3-079_3-078	3-079	3-078	CONCRETE	10	Lining	TERRACE ST	309
3-078_3-077	3-078	3-077	CONCRETE	10	Lining	TERRACE ST	295
3-091_3-073	3-091	3-073	CONCRETE	8	Lining	PLEASANT AVE	406
3-090_3-091	3-090	3-091	CONCRETE	8	Lining	PLEASANT AVE	430
3-089_3-090	3-089	3-090	CONCRETE	8	Lining	PLEASANT AVE	387
3-088_3-089	3-088	3-089	VCP	8	Lining	PLEASANT AVE	151
3-077_3-075	3-077	3-075	CONCRETE	10	Lining	TERRACE ST	198
6-119_6-118	6-119	6-118	VCP	10	Lining	ARDMORE AVE	68
6-120_6-119	6-120	6-119	VCP	10	Lining	ARDMORE AVE	297
6-082_6-081	6-082	6-081	VCP	8	Lining	HARRISON ST	219
6-262_6-080	6-262	6-080	VCP	8	Lining	HARRISON ST	60
6-017_6-016	6-017	6-016	VCP	8	Lining	<Null>	333
6-014_6-015	6-014	6-015	VCP	8	Lining And Point Repair	<Null>	351
6-018_6-017	6-018	6-017	VCP	8	Lining	<Null>	336
6-071_6-074	6-071	6-074	VCP	8	Lining	<Null>	294
6-070_6-071	6-070	6-071	VCP	8	Lining	<Null>	255
6-115_6-114	6-115	6-114	CAST IRON	12	Lining	<Null>	292
6-101_6-100	6-101	6-100	VCP	10	Lining	LESLIE LN	365
6-100_6-099	6-100	6-099	CONCRETE	10	Lining	LESLIE LN	236
6-099_6-098	6-099	6-098	CONCRETE	10	Lining	LESLIE LN	308
6-103_6-098	6-103	6-098	CONCRETE	10	Lining	LESLIE LN	366
6-104_6-103	6-104	6-103	CONCRETE	10	Lining	LESLIE LN	326
6-105_6-104	6-105	6-104	CONCRETE	10	Lining	LESLIE LN	346

Village of Villa Park

Rehabilitated Sewers (Exhibit A-2, A-3)

Table A-1

ASSET ID	USMH	DSMH	MATERIAL	DIAMETER (in)	Rehab Type	ROUTE	LENGTH
6-106_6-107	6-106	6-107	CONCRETE	10	Lining	RAND RD	404
6-097_6-106	6-097	6-106	CONCRETE	10	Lining	RAND RD	487
6-927_6-088	6-927	6-088	VCP	10	Lining	ARDMORE AVE	289
1-104_1-217	1-104	1-217	CONCRETE	8	Lining	HARVARD AVE	205
3-085_3-084	3-085	3-084	CONCRETE	8	Lining	LINCOLN AVE	380
6-005_6-004	6-005	6-004	CONCRETE	18	Lining	<Null>	370
6-019_6-020	6-019	6-020	VCP	8	Lining	MONROE ST	375
6-261_6-168	6-261	6-168	CONCRETE	12	Lining	CORNELL AVE	202
3-139_3-069	3-139	3-069	CONCRETE	10	Lining	WESTMORE AVE	268
3-068_3-139	3-068	3-139	CONCRETE	10	Lining	WESTMORE AVE	55
1-158_1-082	1-158	1-082	VCP	8	Lining	ARDMORE AVE	292
1-081_1-158	1-081	1-158	CONCRETE	8	Lining	ARDMORE AVE	285
1-022_1-021	1-022	1-021	CONCRETE	18	Lining	VILLA AVE	60
6-047_6-046	6-047	6-046	VCP	8	Lining	SUMMIT AVE	62
6-046_6-149	6-046	6-149	VCP	8	Lining	SUMMIT AVE	158
6-079_6-079046	6-079	6-046	VCP	8	Lining	SUMMIT AVE	202
6-113_6-112	6-113	6-112	CONCRETE	12	Lining	CONGRESS ST	24
6-146_6-147	6-146	6-147	CONCRETE	15	Lining	CONGRESS ST	128
6-110_6-146	6-110	6-146	CONCRETE	12	Lining And Point Repair	CONGRESS ST	24
6-113_6-110	6-113	6-110	CONCRETE	10	Lining And Point Repair	CONGRESS ST	245
6-048_6-047	6-048	6-047	VCP	8	Lining	SUMMIT AVE	197
1-097_1-098	1-097	1-098	CONCRETE	10	Lining	PRINCETON AVE	266
1-305_1-307	1-305	1-307	VCP	10	Lining	<Null>	288
6-020_6-021	6-020	6-021	VCP	8	Lining	MONROE ST	373
6-021_6-022	6-021	6-022	VCP	8	Lining	MONROE ST	220
6-003_6-002	6-003	6-002	CONCRETE	18	Lining	<Null>	371
6-002_6-001	6-002	6-001	CONCRETE	18	Lining	<Null>	119
6-012_6-011	6-012	6-011	VCP	8	Lining	<Null>	393
6-023_6-024	6-023	6-024	VCP	8	Lining	FRANK ST	345
6-016_6-008	6-016	6-008	VCP	8	Lining	<Null>	340
6-013_6-012	6-013	6-012	VCP	8	Lining	<Null>	404
6-004_6-003	6-004	6-003	CONCRETE	18	Lining	<Null>	20
6-149_6-181	6-149	6-181	VCP	18	Lining	SUMMIT AVE	147
6-167_6-107	6-167	6-107	VCP	10	Lining	ARDMORE AVE	34
6-112_6-146	6-112	6-146	VCP	12	Lining	CONGRESS ST	246
6-088_6-150	6-088	6-150	VCP	10	Lining	ARDMORE AVE	328
6-051_6-069	6-051	6-069	VCP	8	Lining	HARRISON ST	90
6-074_6-259	6-074	6-259	VCP	10	Lining	JULIA DR	154
1-036_1-035	1-036	1-035	CONCRETE	8	Lining	PLYMOUTH ST	500
1-035_1-021	1-035	1-021	CONCRETE	8	Lining And Point Repair	VILLA AVE	484
1-091_1-090	1-091	1-090	CONCRETE	8	Lining	RIDGE RD	223
1-209_1-092	1-209	1-092	CONCRETE	10	Lining	PRINCETON AVE	302
6-096_6-097	6-096	6-097	CONCRETE	10	Lining	RAND RD	445
6-095_6-096	6-095	6-096	CONCRETE	10	Lining	RAND RD	219
6-263_6-095	6-263	6-095	VCP	10	Lining	RAND RD	81
1-146_1-147	1-146	1-147	CONCRETE	8	Lining	WISCONSIN AVE	297
6-938_6-928	6-938	6-928	VCP	18	Lining	VILLA AVE	121
6-001_6-938	6-001	6-938	VCP	18	Lining	VILLA AVE	113
3-138_3-072	3-138	3-072	CONCRETE	10	Lining	NORTH AVE	105
1-153_1-154	1-153	1-154	VCP	8	Lining	<Null>	224
1-152_1-151	1-152	1-151	CONCRETE	8	Lining	IOWA AVE	369
1-151_1-150	1-151	1-150	CONCRETE	8	Lining And Point Repair	IOWA AVE	348
6-006_6-005	6-006	6-005	CONCRETE	18	Lining	CROSS ST	168

Village of Villa Park

Rehabilitated Sewers (Exhibit A-2, A-3)

Table A-1

ASSET ID	USMH	DSMH	MATERIAL	DIAMETER (in)	Rehab Type	ROUTE	LENGTH
6-007_6-006	6-007	6-006	CAST IRON	18	Lining	TERRY LN	17
7-021_7-015	7-021	7-015	VCP	8	Lining	SUMMIT AVE	221
7-056_7-054	7-056	7-054	VCP	8	Lining	JACKSON ST	215
7-057_7-056	7-057	7-056	VCP	8	Lining And Point Repair	JACKSON ST	227
7-058_7-057	7-058	7-057	VCP	8	Lining And Point Repair	JACKSON ST	238
7-066_7-058	7-066	7-058	VCP	8	Lining And Point Repair	JACKSON ST	233
1-079_1-078	1-079	1-078	CONCRETE	10	Lining	ARDMORE AVE	458
1-083_1-082	1-083	1-082	CONCRETE	8	Lining	ARDMORE AVE	500
1-080_1-079	1-080	1-079	CONCRETE	10	Lining	ARDMORE AVE	508
1-057_1-056	1-057	1-056	CONCRETE	8	Lining	SUNSET DR	350
1-056_1-055	1-056	1-055	CONCRETE	8	Lining	SUNSET DR	344
1-054_1-055	1-054	1-055	CONCRETE	8	Lining	SUNSET DR	200
7-026_7-025	7-026	7-025	VCP	8	Lining	MADISON ST	216
1-147_1-212	1-147	1-212	CONCRETE	10	Lining	<Null>	325
1-134_1-135	1-134	1-135	CONCRETE	10	Lining	MICHIGAN AVE	63
1-135_1-109	1-135	1-109	CONCRETE	10	Lining	RIDGE RD	302
1-108_1-109	1-108	1-109	CONCRETE	8	Lining	HARVARD AVE	346
1-304_1-305	1-304	1-305	VCP	10	Lining	<Null>	353
1-149_1-148	1-149	1-148	CONCRETE	8	Lining And Point Repair	IOWA AVE	317
1-155_1-148	1-155	1-148	CONCRETE	8	Lining	<Null>	178
1-139_1-138	1-139	1-138	CONCRETE	8	Lining And Point Repair	MICHIGAN AVE	359
1-141_1-142	1-141	1-142	CONCRETE	8	Lining And Point Repair	WISCONSIN AVE	314
1-142_1-143	1-142	1-143	CONCRETE	8	Lining And Point Repair	WISCONSIN AVE	317
1-138_1-137	1-138	1-137	CONCRETE	8	Lining	MICHIGAN AVE	340
1-137_1-136	1-137	1-136	CONCRETE	8	Lining	MICHIGAN AVE	500
1-143_1-144	1-143	1-144	CONCRETE	8	Lining And Point Repair	WISCONSIN AVE	333
7-064_7-063	7-064	7-063	VCP	8	Lining	HARVARD AVE	211
7-062_7-061	7-062	7-061	VCP	8	Lining	ADAMS ST	177
6-038_6-037	6-038	6-037	VCP	8	Lining	VAN BUREN ST	222
3-005_3-004	3-005	3-004	VCP	8	Lining	<Null>	184
1-216_1-139	1-216	1-139	CONCRETE	8	Lining	MICHIGAN AVE	222
7-060_7-059	7-060	7-059	VCP	8	Lining	HARVARD AVE	210
7-059_7-058	7-059	7-058	VCP	8	Lining	HARVARD AVE	203
7-037_7-041	7-037	7-041	VCP	8	Lining	YALE AVE	214
7-041_7-043	7-041	7-043	VCP	8	Lining	YALE AVE	236
7-040_7-039	7-040	7-039	VCP	8	Lining	MONROE ST	226
7-039_7-038	7-039	7-038	VCP	8	Lining	MONROE ST	220
7-038_7-037	7-038	7-037	VCP	8	Lining	MONROE ST	219
1-113_1-115	1-113	1-115	CONCRETE	10	Lining	<Null>	455
6-015_6-009	6-015	6-009	VCP	8	Lining And Point Repair	<Null>	363
6-080_6-079	6-080	6-079	VCP	8	Lining	HARRISON ST	216
6-109_6-113	6-109	6-113	CONCRETE	10	Lining	CONGRESS ST	98
6-108_6-109	6-108	6-109	CONCRETE	10	Lining	CONGRESS ST	397
1-053_1-052	1-053	1-052	CONCRETE	8	Lining	ELLSWORTH AVE	371
7-025_7-024	7-025	7-024	VCP	8	Lining	MADISON ST	212
7-024_7-023	7-024	7-023	VCP	8	Lining	MADISON ST	219
7-023_7-022	7-023	7-022	VCP	8	Lining	MADISON ST	216
6-062_6-063	6-062	6-063	VCP	8	Lining	<Null>	24
6-063_6-064	6-063	6-064	VCP	8	Lining	<Null>	326
6-064_6-065	6-064	6-065	VCP	8	Lining	<Null>	391
1-154_1-155	1-154	1-155	VCP	8	Lining	<Null>	367
1-103_1-104	1-103	1-104	CONCRETE	8	Lining	HARVARD AVE	344
1-148_1-147	1-148	1-147	CONCRETE	10	Lining And Point Repair	<Null>	349

Village of Villa Park

Rehabilitated Sewers (Exhibit A-2, A-3)

Table A-1

ASSET ID	USMH	DSMH	MATERIAL	DIAMETER (in)	Rehab Type	ROUTE	LENGTH
1-302_1-303	1-302	1-303	VCP	10	Lining	<Null>	302
1-144_1-145	1-144	1-145	CONCRETE	8	Lining And Point Repair	WISCONSIN AVE	301
3-094_3-093	3-094	3-093	CONCRETE	8	Lining	HUGO CT	199
3-096_3-095	3-096	3-095	CONCRETE	8	Lining	VERMONT ST	325
1-092_1-093	1-092	1-093	CONCRETE	10	Lining	PRINCETON AVE	246
1-114_1-115	1-114	1-115	CONCRETE	8	Lining	YALE AVE	486
1-300_1-301	1-300	1-301	VCP	10	Lining	<Null>	200
1-063_1-064	1-063	1-064	CONCRETE	8	Lining	CHATHAM AVE	299
6-084_6-082	6-084	6-082	VCP	8	Lining	HARRISON ST	151
6-087_6-086	6-087	6-086	VCP	8	Lining	HARRISON ST	98
6-086_6-085	6-086	6-085	VCP	8	Lining	HARRISON ST	219
6-085_6-084	6-085	6-084	VCP	8	Lining	HARRISON ST	66
6-083_6-084	6-083	6-084	VCP	8	Lining	ORCHARD HILL CT	244
NO-MH-02_6-108	NO-MH-02	6-108	CONCRETE	10	Lining	CONGRESS ST	237
1-071_1-064	1-071	1-064	CONCRETE	18	Lining	BEVERLY AVE	333
1-072_1-071	1-072	1-071	CONCRETE	18	Lining	BEVERLY AVE	457
1-038_1-021	1-038	1-021	CONCRETE	18	Lining	VERMONT ST	284
1-047_1-041	1-047	1-041	VCP	18	Lining	VERMONT ST	336
3-115_3-116	3-115	3-116	CONCRETE	8	Lining	JAMES ST	285
3-114_3-115	3-114	3-115	CONCRETE	8	Lining	JAMES ST	277
3-113_3-114	3-113	3-114	CONCRETE	8	Lining	JAMES ST	227
3-117_3-066	3-117	3-066	CONCRETE	10	Lining	RIDGE RD	362
3-118_3-117	3-118	3-117	CONCRETE	10	Lining	RIDGE RD	251
1-303_1-304	1-303	1-304	VCP	10	Lining And Point Repair	<Null>	323
3-009_3-008	3-009	3-008	CONCRETE	8	Lining	IOWA AVE	400
3-008_3-007	3-008	3-007	CONCRETE	8	Lining	IOWA AVE	349
3-007_3-006	3-007	3-006	CONCRETE	8	Lining	IOWA AVE	314
3-006_3-005	3-006	3-005	VCP	8	Lining	<Null>	234
7-012_7-013	7-012	7-013	VCP	8	Lining	ADAMS ST	217
7-011_7-012	7-011	7-012	VCP	8	Lining	ADAMS ST	216
3-064_3-065	3-064	3-065	CONCRETE	10	Lining	WESTMORE AVE	204
3-065_3-066	3-065	3-066	CONCRETE	10	Lining	WESTMORE AVE	182
3-066_3-067	3-066	3-067	CONCRETE	10	Lining	WESTMORE AVE	166
3-067_3-068	3-067	3-068	CONCRETE	10	Lining	WESTMORE AVE	197
3-069_3-070	3-069	3-070	CONCRETE	10	Lining	WESTMORE AVE	322
3-070_3-071	3-070	3-071	CONCRETE	10	Lining	WESTMORE AVE	342
3-071_3-138	3-071	3-138	CONCRETE	10	Lining	WESTMORE AVE	517
1-109_1-113	1-109	1-113	CONCRETE	10	Lining	RIDGE RD	35
6-069_6-068	6-069	6-068	VCP	8	Lining And Point Repair	<Null>	268
6-067_6-066	6-067	6-066	VCP	8	Lining And Point Repair	<Null>	355
6-068_6-067	6-068	6-067	VCP	8	Lining And Point Repair	<Null>	353
1-082_1-078	1-082	1-078	CONCRETE	8	Lining	PLYMOUTH ST	51
1-078_1-077	1-078	1-077	CONCRETE	10	Lining	ARDMORE AVE	304
1-077_1-076	1-077	1-076	CONCRETE	10	Lining	ARDMORE AVE	318
1-075_1-076	1-075	1-076	VCP	10	Lining	VERMONT ST	48
7-065_7-064	7-065	7-064	VCP	8	Lining	HARVARD AVE	234
7-036_7-037	7-036	7-037	VCP	8	Lining	MONROE ST	289
7-017_7-016	7-017	7-016	VCP	8	Lining	MONROE ST	219
3-119_3-118	3-119	3-118	VCP	8	Lining	<Null>	168
3-122_3-118	3-122	3-118	VCP	10	Lining	RIDGE RD	34
3-123_3-122	3-123	3-122	CONCRETE	10	Lining	RIDGE RD	281
3-126_3-123	3-126	3-123	CONCRETE	10	Lining	RIDGE RD	286
1-070_1-071	1-070	1-071	CONCRETE	8	Lining	BEVERLY AVE	300

Village of Villa Park

Rehabilitated Sewers (Exhibit A-2, A-3)

Table A-1

ASSET ID	USMH	DSMH	MATERIAL	DIAMETER (in)	Rehab Type	ROUTE	LENGTH
1-069_1-070	1-069	1-070	CONCRETE	8	Lining	BEVERLY AVE	349
1-064_1-061	1-064	1-061	CONCRETE	18	Lining	VERMONT ST	346
3-128_3-127	3-128	3-127	VCP	8	Lining	LINCOLN AVE	164
3-127_3-126	3-127	3-126	CONCRETE	8	Lining	LINCOLN AVE	432
3-167_3-166	3-167	3-166	CONCRETE	10	Lining	WESTMORE AVE	72
3-110_3-109	3-110	3-109	CONCRETE	8	Lining	SUNSET DR	334
6-036_6-181	6-036	6-181	VCP	18	Lining	SUMMIT AVE	293
7-020_7-019	7-020	7-019	VCP	8	Lining	MONROE ST	218
3-097_3-096	3-097	3-096	CONCRETE	8	Lining	VERMONT ST	308
7-072_7-002	7-072	7-002	VCP	10	Lining	SUMMIT AVE	223
7-013_7-072	7-013	7-072	VCP	10	Lining	ADAMS ST	222
3-087_3-088	3-087	3-088	VCP	8	Lining	PLEASANT AVE	334
3-092_3-072	3-092	3-072	CONCRETE	8	Lining	VERMONT ST	244
3-093_3-092	3-093	3-092	CONCRETE	8	Lining	VERMONT ST	151
1-093_1-094	1-093	1-094	CONCRETE	10	Lining And Point Repair	PRINCETON AVE	428
3-024_3-023	3-024	3-023	CONCRETE	10	Lining	ADDISON RD	511
3-018_3-017	3-018	3-017	VCP	8	Lining	ADDISON RD	339
3-120_3-119	3-120	3-119	CONCRETE	8	Lining	ROY DR	267
1-060_1-061	1-060	1-061	CONCRETE	8	Lining	DOUGLAS AVE	299
1-065_1-064	1-065	1-064	CONCRETE	8	Lining	CHATHAM AVE	301
7-055_7-054	7-055	7-054	VCP	8	Lining	YALE AVE	221
7-043_7-055	7-043	7-055	VCP	8	Lining	YALE AVE	261
7-067_7-066	7-067	7-066	VCP	8	Lining And Point Repair	JACKSON ST	230
7-068_7-067	7-068	7-067	VCP	8	Lining	JACKSON ST	229
7-069_7-068	7-069	7-068	VCP	8	Lining	JACKSON ST	212
1-102_1-101	1-102	1-101	CONCRETE	8	Lining	HARVARD AVE	337
1-067_1-066	1-067	1-066	CONCRETE	8	Lining	CHATHAM AVE	299
1-068_1-069	1-068	1-069	CONCRETE	8	Lining	BEVERLY AVE	306
1-096_1-097	1-096	1-097	CONCRETE	10	Lining	PRINCETON AVE	331
1-095_1-096	1-095	1-096	CONCRETE	10	Lining	PRINCETON AVE	356
7-019_7-018	7-019	7-018	VCP	8	Lining	MONROE ST	217
7-018_7-017	7-018	7-017	VCP	8	Lining	MONROE ST	214
7-046_7-045	7-046	7-045	VCP	8	Lining	ADAMS ST	216
7-045_7-044	7-045	7-044	VCP	8	Lining	ADAMS ST	201
7-044_7-043	7-044	7-043	VCP	8	Lining	ADAMS ST	198
7-042_7-043	7-042	7-043	VCP	8	Lining	ADAMS ST	337
1-094_1-095	1-094	1-095	CONCRETE	10	Lining	PRINCETON AVE	249
3-109_3-069	3-109	3-069	CONCRETE	8	Lining	SUNSET DR	226
3-116_3-068	3-116	3-068	CONCRETE	8	Lining	JAMES ST	253
1-041_1-038	1-041	1-038	CONCRETE	18	Lining	VERMONT ST	337
1-039_1-038	1-039	1-038	CONCRETE	8	Lining	HAMILTON AVE	222
1-040_1-041	1-040	1-041	CONCRETE	8	Lining	GERARD AVE	242
6-090_6-107	6-090	6-107	VCP	8	Lining	ARDMORE AVE	183
6-089_6-090	6-089	6-090	CONCRETE	8	Lining	ARDMORE AVE	198
1-066_1-065	1-066	1-065	CONCRETE	8	Lining	CHATHAM AVE	326
3-098_3-099	3-098	3-099	CONCRETE	8	Lining	LINCOLN AVE	179
3-104_3-103	3-104	3-103	CONCRETE	8	Lining	LINCOLN AVE	297
3-103_3-099	3-103	3-099	CONCRETE	8	Lining	LINCOLN AVE	283
3-099_3-100	3-099	3-100	VCP	8	Lining	PLYMOUTH ST	319
3-100_3-101	3-100	3-101	VCP	8	Lining	PLYMOUTH ST	236
3-101_3-102	3-101	3-102	VCP	8	Lining	PLYMOUTH ST	347
3-102_3-071	3-102	3-071	CONCRETE	8	Lining	PLYMOUTH ST	295
3-105_3-106	3-105	3-106	CONCRETE	8	Lining	MERLE ST	332

Village of Villa Park

Rehabilitated Sewers (Exhibit A-2, A-3)

Table A-1

ASSET ID	USMH	DSMH	MATERIAL	DIAMETER (in)	Rehab Type	ROUTE	LENGTH
3-106_3-107	3-106	3-107	CONCRETE	8	Lining	MERLE ST	252
3-107_3-108	3-107	3-108	CONCRETE	8	Lining	MERLE ST	311
3-108_3-070	3-108	3-070	CONCRETE	8	Lining	MERLE ST	145
3-112_3-111	3-112	3-111	CONCRETE	8	Lining	SUNSET DR	162
3-111_3-110	3-111	3-110	CONCRETE	8	Lining	SUNSET DR	334
6-098_6-097	6-098	6-097	CONCRETE	10	Lining	WILLOWCREST DR	303
3-124_3-125	3-124	3-125	CONCRETE	8	Lining	LINCOLN AVE	210
3-125_3-126	3-125	3-126	VCP	8	Lining	LINCOLN AVE	290
1-301_1-218	1-301	1-218	VCP	10	Lining	<Null>	253
1-145_1-146	1-145	1-146	CONCRETE	8	Lining	WISCONSIN AVE	331
3-040_3-039	3-040	3-039	CONCRETE	10	Lining	THIRD AVE	335
3-035_3-034	3-035	3-034	CONCRETE	10	Lining	THIRD AVE	327
3-037_3-035	3-037	3-035	CONCRETE	10	Lining	THIRD AVE	141
3-039_3-037	3-039	3-037	CONCRETE	10	Lining	THIRD AVE	182
3-050_3-051	3-050	3-051	CONCRETE	10	Lining	SECOND AVE	320
1-061_1-050	1-061	1-050	CONCRETE	18	Lining	VERMONT ST	341
1-050_1-047	1-050	1-047	CONCRETE	18	Lining	VERMONT ST	344
3-030_3-029	3-030	3-029	CONCRETE	10	Lining	THIRD AVE	314
3-046_3-047	3-046	3-047	CONCRETE	10	Lining	SECOND AVE	324
3-045_3-046	3-045	3-046	CONCRETE	10	Lining	SECOND AVE	328
3-044_3-045	3-044	3-045	CONCRETE	10	Lining	SECOND AVE	331
3-043_3-044	3-043	3-044	CONCRETE	10	Lining	SECOND AVE	414
3-056_3-055	3-056	3-055	CONCRETE	10	Lining	BIERMANN AVE	357
3-059_3-058	3-059	3-058	CONCRETE	10	Lining	BIERMANN AVE	392
3-060_3-059	3-060	3-059	CONCRETE	10	Lining	BIERMANN AVE	389
3-061_3-060	3-061	3-060	CONCRETE	10	Lining	BIERMANN AVE	384
3-062_3-061	3-062	3-061	CONCRETE	10	Lining	BIERMANN AVE	392
3-063_3-062	3-063	3-062	CONCRETE	10	Lining	BIERMANN AVE	402
1-055_1-058	1-055	1-058	CONCRETE	8	Lining	DOUGLAS AVE	267
1-058_1-059	1-058	1-059	CONCRETE	8	Lining	DOUGLAS AVE	208
1-044_1-045	1-044	1-045	CONCRETE	8	Lining	FULTON AVE	372
1-049_1-050	1-049	1-050	CONCRETE	8	Lining	ELLSWORTH AVE	264
1-062_1-061	1-062	1-061	CONCRETE	8	Lining	DOUGLAS AVE	300
1-059_1-060	1-059	1-060	CONCRETE	8	Lining	DOUGLAS AVE	299
1-037_1-038	1-037	1-038	CONCRETE	8	Lining	HAMILTON AVE	399
1-042_1-041	1-042	1-041	CONCRETE	8	Lining	GERARD AVE	415
1-090_1-209	1-090	1-209	CONCRETE	10	Lining	PRINCETON AVE	15
1-045_1-046	1-045	1-046	CONCRETE	8	Lining	FULTON AVE	319
1-043_1-045	1-043	1-045	CONCRETE	8	Lining	PLYMOUTH ST	258
1-115_1-090	1-115	1-090	VCP	10	Lining	RIDGE RD	448
1-307_1-306	1-307	1-306	VCP	10	Lining	<Null>	25
6-147_6-149	6-147	6-149	CONCRETE	15	Lining	CONGRESS ST	12
1-212_1-134	1-212	1-134	CONCRETE	10	Lining	MICHIGAN AVE	16
6-170_6-025	6-170	6-025	VCP	8	Lining	<Null>	323
6-114_6-261	6-114	6-261	CONCRETE	12	Lining	CORNELL AVE	45
6-081_6-261	6-081	6-261	VCP	8	Lining	HARRISON ST	45
1-217_1-106	1-217	1-106	CONCRETE	8	Lining	HARVARD AVE	122
1-218_1-302	1-218	1-302	VCP	10	Lining	<Null>	251
6-107_NO-MH-02	6-107	NO-MH-02	CONCRETE	10	Lining	CONGRESS ST	174
6-253_6-252	6-253	6-252	PVC	8	Replaced	HARRISON ST	31
6-258_6-938	6-938	6-258	HDPE	12	Replaced	VILLA AVE	143
6-256_6-257	6-256	6-257	PVC	10	Replaced	MYRTLE AVE	302
6-254_6-255	6-254	6-255	PVC	10	Replaced	MYRTLE AVE	306

Village of Villa Park

Rehabilitated Sewers (Exhibit A-2, A-3)

Table A-1

ASSET ID	USMH	DSMH	MATERIAL	DIAMETER (in)	Rehab Type	ROUTE	LENGTH
6-251_6-254	6-251	6-254	PVC	10	Replaced	MYRTLE AVE	299
6-255_6-256	6-255	6-256	PVC	10	Replaced	MYRTLE AVE	307
6-252_6-251	6-252	6-251	PVC	8	Replaced	HARRISON ST	134
6-250_6-052	6-250	6-052	PVC	10	Replaced	HARRISON ST	14
6-259_6-066	6-259	6-066	PVC	12	Replaced	JULIA DR	329
6-257_6-065	6-257	6-065	PVC	12	Replaced	JULIA DR	216
6-052_6-251	6-052	6-251	PVC	10	Replaced	HARRISON ST	245
6-065_6-258	6-065	6-258	HDPE	12	Replaced	JULIA DR	218
6-066_6-257	6-066	6-257	PVC	10	Replaced	JULIA DR	211
7-061_7-060	7-061	7-060	PVC	8	Replaced	HARVARD AVE	62
3-084_3-083	3-084	3-083	PVC	8	Replaced	LINCOLN AVE	376
7-054_7-053	7-054	7-053	PVC	10	Replaced	JACKSON ST	229
7-053_7-052	7-053	7-052	PVC	10	Replaced	JACKSON ST	226
7-052_7-051	7-052	7-051	PVC	10	Replaced	JACKSON ST	206
1-046_1-047	1-046	1-047	CONCRETE	8	Replaced	FULTON AVE	247
1-052_1-051	1-052	1-051	CONCRETE	8	Replaced	ELLSWORTH AVE	381
1-051_1-050	1-051	1-050	CONCRETE	8	Replaced	ELLSWORTH AVE	202
1-048_1-047	1-048	1-047	CONCRETE	8	Replaced	FULTON AVE	275
1-119_1-118	1-119	1-118	CONCRETE	10	Replaced	YALE AVE	170
1-124_1-123	1-124	1-123	CONCRETE	8	Replaced	PRINCETON AVE	363

Village of Villa Park
Rehabilitated Manholes (Exhibit A-4)
Table A-2

Manhole No.	Material	Street	Surface Type	Structure Location	Structure Diameter (in)	Structure Depth (ft)
6-008	Concrete Block	TERRY LN	Non-Paved	Grass Easement	48	9
6-009	Concrete Block	TERRY LN	Non-Paved	Grass Easement	48	9.5
6-011	Precast Concrete	TERRY LN	Non-Paved	Grass Easement	48	5.8
6-012	Concrete Block	MYRTLE AVE	Non-Paved	Grass Easement	48	4.6
6-013	Precast Concrete	VILLA AVE	Non-Paved	Grass Easement	48	13.6
6-015	Concrete Block	MYRTLE AVE	Non-Paved	Grass Easement	48	4.9
6-016	Concrete Block	EUCLID AVE	Non-Paved	Grass Easement	48	8.8
6-017	Concrete Block	EUCLID AVE	Non-Paved	Grass Easement	48	4.6
6-018	Concrete Block	EUCLID AVE	Non-Paved	Grass Easement	48	6.5
6-019	Precast Concrete	MONROE ST	Non-Paved	Grass Easement	48	5.8
6-020	Precast Concrete	MONROE ST	Non-Paved	Grass Easement	48	8.2
6-021	Precast Concrete	MONROE ST	Non-Paved	Grass Easement	48	14.5
6-022	Precast Concrete	MONROE ST	Asphalt	Street Pavement	48	12.9
6-023	Concrete Block	SUMMIT AVE	Non-Paved	Grass Easement	48	12.1
6-024	Precast Concrete	FRANK ST	Asphalt	Street Pavement	48	10.2
6-025	Concrete Block	SUMMIT AVE	Non-Paved	Grass Easement	48	7.7
6-034	Concrete Block	TERRY LN	Concrete	Sidewalk	48	11
6-048	Concrete Block	SUMMIT AVE	Non-Paved	Grass Easement	48	9.97
6-062	Precast Concrete	VILLA AVE	Asphalt	Other	48	9.6
6-063	Concrete Block	VILLA AVE	Non-Paved	Grass Easement	48	8.5
6-064	Concrete Block	VILLA AVE	Non-Paved	Grass Easement	48	7
6-070	Concrete Block	JULIA DR	Non-Paved	Grass Easement	48	8.4
6-071	Concrete Block	JULIA DR	Non-Paved	Grass Easement	48	5.8
6-072	Concrete Block	JULIA DR	Non-Paved	Grass Easement	48	8.5
6-073	Concrete Block	JULIA DR	Non-Paved	Grass Easement	48	6.1
6-088	Concrete Block	ARDMORE AVE	Non-Paved	Grass Easement	48	23.3
6-151	Concrete Block	ARDMORE AVE	Non-Paved	Grass Easement	48	12.3
6-152	Concrete Block	ARDMORE AVE	Non-Paved	Grass Easement	48	10.5
6-170	Concrete Block	SUMMIT AVE	Non-Paved	Grass Easement	48	10.5
6-927	Concrete Block	ARDMORE AVE	Non-Paved	Grass Easement	48	13.1
6-263	Precast Concrete	RAND RD	Paved	Light Highway	48	8.5
1-105	Concrete (reinforced)	STONE RD	Non-Paved	Light Highway	48	7.1
1-216	Concrete (reinforced)	VERMONT ST	Concrete	Light Highway	48	9.4
1-218	Concrete (reinforced)	YALE AVE	Asphalt	Light Highway	48	7.7
6-261	Precast Concrete	CORNELL AVE	Paved	Light Highway	48	Unknown
6-262	Precast Concrete	HARRISON ST	Paved	Light Highway	48	Unknown
6-001	Precast Concrete	SUGAR CREEK	Non-Paved	Grass Easement	48	18.71
6-002	Precast Concrete	SUGAR CREEK	Non-Paved	Grass Easement	48	19.23
6-003	Precast Concrete	SUGAR CREEK	Non-Paved	Grass Easement	48	13.34
6-004	Precast Concrete	SUGAR CREEK	Non-Paved	Grass Easement	48	19.05
6-005	Precast Concrete	CROSS ST	Paved	Center Street	48	20
6-068	Concrete Block	MYRTLE AVE	Non-Paved	Grass	48	7.12
6-069	Precast Concrete	MYRTLE AVE	Non-Paved	Grass	48	10.32
6-114	Precast Concrete	HARRISON ST	Non-Paved	Grass Easement	48	Unknown
6-115	Precast Concrete	HARRISON ST	Paved	Paved Easement	48	Unknown
6-116	Precast Concrete	CORNELL AVE	Non-Paved	Grass Easement	48	Unknown
6-117	Precast Concrete	CORNELL AVE	Unknown	Unknown	48	Unknown

Village of Villa Park

Rehabilitated Manholes (Exhibit A-4)

Table A-2

Manhole No.	Material	Street	Surface Type	Structure Location	Structure Diameter (in)	Structure Depth (ft)
6-118	Precast Concrete	ARDMORE AVE	Non-Paved	Grass Easement	48	Unknown
6-119	Precast Concrete	ARDMORE AVE	Non-Paved	Grass Easement	48	6.67
1-035	Concrete (reinforced)	PLYMOUTH ST	Asphalt	Light Highway	48	5.7
3-006	Concrete (reinforced)	IOWA AVE	Asphalt	Parking Lot	48	9.7
6-074	Precast Concrete	JULIA DR	Non-Paved	Grass	48	8.12
6-067	Concrete Block	MYRTLE AVE	Non-Paved	Grass	48	7.6

Village of Villa Park

Concrete and VCP Sewers to be Lined (Previously Televised)(Exhibit A-6)

Table A-3

ASSET ID	USMH	DSMH	MATERIAL	DIAMETER (in)	STREET	LENGTH (ft)
3-042_3-040	3-042	3-040	CONCRETE	10	THIRD AVE	44
6-238_6-120	6-238	6-120	VCP	10	ARDMORE AVE	348
6-181_6-029	6-181	6-029	VCP	21	SUMMIT AVE	57

Village of Villa Park

Concrete and VCP Sewers to be Televised and Rehabilitated

Table A-4

ASSET ID	BASIN ID	USMH	DSMH	MATERIAL	DIAMETER (in)	ROUTE	LENGTH (ft)
1-021_1-020	1	1-021	1-020	CONCRETE	18	VILLA AVE	15
1-030_1-029	1	1-030	1-029	VCP	8	SCHILLER ST	360
1-031_1-308	1	1-031	1-308	VCP	18	VILLA AVE	116
1-033_1-031	1	1-033	1-031	VCP	8	NORTH AVE	348
1-034_1-033	1	1-034	1-033	VCP	8	NORTH AVE	353
1-105_1-117	1	1-105	1-117	VCP	<Null>	STONE RD	315
1-116_1-110	1	1-116	1-110	VCP	8	<Null>	268
1-117_1-116	1	1-117	1-116	VCP	<Null>	STONE RD	327
1-118_1-901	1	1-118	1-901	VCP	10	YALE AVE	233
1-120_1-119	1	1-120	1-119	VCP	10	YALE AVE	312
1-121_1-120	1	1-121	1-120	VCP	10	YALE AVE	21
1-122_1-120	1	1-122	1-120	VCP	8	<Null>	442
1-123_1-122	1	1-123	1-122	VCP	8	PRINCETON AVE	246
1-125_1-123	1	1-125	1-123	VCP	8	SCHILLER ST	356
1-126_1-125	1	1-126	1-125	VCP	8	ARDMORE AVE	429
1-127_1-125	1	1-127	1-125	VCP	8	SCHILLER ST	98
1-129_1-121	1	1-129	1-121	VCP	8	<Null>	447
1-130_1-129	1	1-130	1-129	VCP	8	HARVARD AVE	316
1-131_1-132	1	1-131	1-132	VCP	8	MICHIGAN AVE	164
1-132_1-129	1	1-132	1-129	VCP	8	<Null>	414
1-133_1-132	1	1-133	1-132	VCP	8	<Null>	363
1-156_5-032	1	1-156	5-032	CONCRETE	24	IL ROUTE 83	45
1-157_1-165	1	1-157	1-165	VCP	8	HILL ST	163
1-195_1-306	1	1-195	1-306	VCP	10	TERRACE ST	56
1-196_1-195	1	1-196	1-195	VCP	18	<Null>	402
1-219_1-220	1	1-219	1-220	VCP	6	RIDGE RD	159
1-220_NO-MH-08	1	1-220	NO-MH-08	VCP	6	RIDGE RD	29
1-308_1-029	1	1-308	1-029	VCP	18	VILLA AVE	251
1-901_1-900	1	1-901	1-900	VCP	10	YALE AVE	26
2-002_2-001	2	2-002	2-001	CONCRETE	15	VILLA AVE	28
2-003_2-002	2	2-003	2-002	VCP	15	VILLA AVE	99
2-004_2-003	2	2-004	2-003	CONCRETE	15	VILLA AVE	314
2-005_2-004	2	2-005	2-004	CONCRETE	15	VILLA AVE	281
2-006_2-005	2	2-006	2-005	CONCRETE	15	VILLA AVE	312
2-007_2-006	2	2-007	2-006	CONCRETE	15	VILLA AVE	196
2-008_2-007	2	2-008	2-007	CONCRETE	15	VILLA AVE	55
2-009_2-008	2	2-009	2-008	CONCRETE	15	VILLA AVE	236
2-010_RJN-2-010-A	<Null>	2-010	RJN-2-010-A	CONCRETE	15	VILLA AVE	271
2-012_2-001	2	2-012	2-001	VCP	15	<Null>	277
2-013_2-012	2	2-013	2-012	VCP	15	<Null>	237
2-014_2-077	2	2-014	2-077	VCP	12	<Null>	490
2-015_2-072	2	2-015	2-072	CONCRETE	8	ADELE CT	277
2-016_2-014	2	2-016	2-014	CONCRETE	12	<Null>	94
2-017_2-061	2	2-017	2-061	CONCRETE	12	<Null>	146
2-018_2-016	2	2-018	2-016	CONCRETE	8	SIDNEY CT	352
2-019_2-018	2	2-019	2-018	CONCRETE	8	<Null>	138
2-020_2-017	2	2-020	2-017	CONCRETE	8	<Null>	100
2-021_2-020	2	2-021	2-020	CONCRETE	8	<Null>	265
2-022_2-021	2	2-022	2-021	CONCRETE	8	<Null>	159

Village of Villa Park

Concrete and VCP Sewers to be Televised and Rehabilitated

Table A-4

ASSET ID	BASIN ID	USMH	DSMH	MATERIAL	DIAMETER (in)	ROUTE	LENGTH (ft)
2-023_2-013	2	2-023	2-013	CONCRETE	15	<Null>	167
2-024_2-023	2	2-024	2-023	VCP	15	ELLSWORTH AVE	376
2-025_2-024	2	2-025	2-024	VCP	10	ELLSWORTH AVE	393
2-026_2-025	2	2-026	2-025	VCP	8	ELLSWORTH AVE	119
2-027_2-026	2	2-027	2-026	VCP	8	<Null>	58
2-028_2-027	2	2-028	2-027	VCP	8	ELLSWORTH AVE	376
2-030_2-934	2	2-030	2-934	VCP	8	ELLSWORTH AVE	419
2-032_2-030	2	2-032	2-030	VCP	8	HILL ST	307
2-033_2-032	2	2-033	2-032	VCP	8	HILL ST	313
2-034_2-025	2	2-034	2-025	VCP	8	NORTH AVE	351
2-035_2-034	2	2-035	2-034	VCP	8	NORTH AVE	282
2-036_2-035	2	2-036	2-035	VCP	8	CHATHAM AVE	400
2-037_2-035	2	2-037	2-035	VCP	8	NORTH AVE	276
2-038_2-037	2	2-038	2-037	VCP	8	NORTH AVE	402
2-039_2-038	2	2-039	2-038	VCP	8	NORTH AVE	459
2-040_2-039	2	2-040	2-039	VCP	8	NORTH AVE	232
2-041_2-040	2	2-041	2-040	VCP	8	NORTH AVE	236
2-042_2-041	2	2-042	2-041	VCP	8	NORTH AVE	237
2-043_2-042	2	2-043	2-042	VCP	8	NORTH AVE	209
2-044_2-043	2	2-044	2-043	VCP	8	NORTH AVE	294
2-045_2-044	2	2-045	2-044	VCP	8	NORTH AVE	326
2-052_2-045	2	2-052	2-045	VCP	8	NORTH AVE	326
2-053_2-052	2	2-053	2-052	VCP	8	NORTH AVE	385
2-061_2-016	2	2-061	2-016	CONCRETE	12	<Null>	457
2-072_2-077	2	2-072	2-077	VCP	8	ADELE CT	133
2-077_2-013	2	2-077	2-013	CONCRETE	12	<Null>	271
2-100_2-036	2	2-100	2-036	VCP	8	CHATHAM AVE	170
2-900_2-901	2	2-900	2-901	VCP	8	SCHILLER ST	202
2-901_2-934	2	2-901	2-934	VCP	8	SCHILLER ST	421
2-934_2-028	2	2-934	2-028	VCP	8	ELLSWORTH AVE	37
2-935_2-031	2	2-935	2-031	VCP	8	HILL ST	57
3-002_1-196	3	3-002	1-196	VCP	18	UNION PACIFIC RR TRACKS	324
3-004_3-003	3	3-004	3-003	VCP	8	UNION PACIFIC RR TRACKS	65
3-012_3-161	3	3-012	3-161	VCP	8	ADDISON RD	21
3-014_3-013	3	3-014	3-013	VCP	8	ADDISON RD	336
3-015_3-014	3	3-015	3-014	VCP	8	ADDISON RD	341
3-016_3-015	3	3-016	3-015	VCP	8	ADDISON RD	322
3-017_3-016	3	3-017	3-016	VCP	8	ADDISON RD	357
3-020_3-161	3	3-020	3-161	VCP	18	TERRACE ST	68
3-026_3-025	3	3-026	3-025	UNKNOWN	8	SUNSET DR	135
3-027_3-020	3	3-027	3-020	VCP	18	TERRACE ST	330
3-053_3-027	3	3-053	3-027	VCP	18	TERRACE ST	338
3-054_3-053	3	3-054	3-053	VCP	15	TERRACE ST	341
3-076_3-054	3	3-076	3-054	VCP	15	TERRACE ST	344
3-129_3-128	3	3-129	3-128	VCP	8	<Null>	241
3-131_3-129	3	3-131	3-129	VCP	8	<Null>	256
3-140_3-141	3	3-140	3-141	VCP	8	TERRACE ST	297
3-141_3-142	3	3-141	3-142	VCP	8	TERRACE ST	340
3-142_3-143	3	3-142	3-143	VCP	8	TERRACE ST	386

Village of Villa Park

Concrete and VCP Sewers to be Televised and Rehabilitated

Table A-4

ASSET ID	BASIN ID	USMH	DSMH	MATERIAL	DIAMETER (in)	ROUTE	LENGTH (ft)
3-143_3-012	3	3-143	3-012	VCP	8	TERRACE ST	346
3-153_3-127	3	3-153	3-127	VCP	8	LINCOLN AVE	37
3-160_3-010	3	3-160	3-010	VCP	18	UNION PACIFIC RR TRACKS	312
3-161_3-160	3	3-161	3-160	VCP	18	ADDISON RD	160
3-163_3-076	3	3-163	3-076	VCP	15	WESTMORE AVE	14
4-001_4-900	4	4-001	4-900	VCP	12	<Null>	348
4-002_4-001	4	4-002	4-001	CONCRETE	12	IL ROUTE 83	468
4-003_4-002	4	4-003	4-002	CONCRETE	12	IL ROUTE 83	286
4-004_4-003	4	4-004	4-003	CONCRETE	12	IL ROUTE 83	399
4-005_4-004	4	4-005	4-004	CONCRETE	12	IL ROUTE 83	407
4-006_4-016	4	4-006	4-016	CONCRETE	10	IL ROUTE 83	276
4-007_4-006	4	4-007	4-006	CONCRETE	10	WASHINGTON ST	247
4-009_4-007	4	4-009	4-007	CONCRETE	10	<Null>	708
4-010_4-018	4	4-010	4-018	CONCRETE	10	<Null>	93
4-011_4-010	4	4-011	4-010	CONCRETE	10	<Null>	43
4-012_4-011	4	4-012	4-011	CONCRETE	10	<Null>	242
4-016_4-017	4	4-016	4-017	CONCRETE	10	IL ROUTE 83	6
4-017_4-005	4	4-017	4-005	CONCRETE	10	IL ROUTE 83	152
4-018_4-009	4	4-018	4-009	CONCRETE	10	<Null>	341
4-019_4-012	4	4-019	4-012	CONCRETE	8	MADISON ST	170
4-021_53-290	4	4-021	53-290	VCP	8	<Null>	231
5-003_5-002	5	5-003	5-002	CONCRETE	24	RIVERSIDE DR	49
5-004_5-003	5	5-004	5-003	VCP	24	RIVERSIDE DR	365
5-005_5-004	5	5-005	5-004	CONCRETE	24	RIVERSIDE DR	415
5-006_5-011	5	5-006	5-011	CONCRETE	24	RIVERSIDE DR	139
5-007_5-006	5	5-007	5-006	CONCRETE	24	RIVERSIDE DR	399
5-008_5-007	5	5-008	5-007	CONCRETE	24	RIVERSIDE DR	411
5-009_5-008	5	5-009	5-008	VCP	24	RIVERSIDE DR	402
5-010_5-013	5	5-010	5-013	CONCRETE	10	RIVERSIDE DR	196
5-011_5-005	5	5-011	5-005	CONCRETE	24	RIVERSIDE DR	269
5-012_5-009	5	5-012	5-009	CONCRETE	21	RIVERSIDE DR	441
5-013_5-015	5	5-013	5-015	CONCRETE	10	RIVERSIDE DR	493
5-014_5-012	5	5-014	5-012	CONCRETE	21	RIVERSIDE DR	434
5-015_5-016	5	5-015	5-016	CONCRETE	10	RIVERSIDE DR	454
5-016_5-051	5	5-016	5-051	CONCRETE	10	MADISON ST	19
5-017_5-016	5	5-017	5-016	VCP	8	MADISON ST	241
5-018_5-051	5	5-018	5-051	VCP	21	MADISON ST	10
5-019_5-018	5	5-019	5-018	CONCRETE	21	MADISON ST	267
5-020_5-019	5	5-020	5-019	CONCRETE	21	MADISON ST	276
5-021_5-020	5	5-021	5-020	CONCRETE	8	MADISON ST	24
5-022_5-021	5	5-022	5-021	CONCRETE	8	MONTEREY AVE	328
5-023_5-022	5	5-023	5-022	CONCRETE	8	MONTEREY AVE	391
5-024_5-020	5	5-024	5-020	CONCRETE	21	MADISON ST	384
5-026_5-025	5	5-026	5-025	CONCRETE	18	MADISON ST	384
5-027_5-026	5	5-027	5-026	CONCRETE	18	VILLA AVE	281
5-028_5-027	5	5-028	5-027	CONCRETE	18	VILLA AVE	290
5-035_5-016	5	5-035	5-016	CONCRETE	8	MADISON ST	252
5-051_5-014	5	5-051	5-014	VCP	21	RIVERSIDE DR	438
52-1_5-033	52	52-1	5-033	VCP	18	IL ROUTE 83	164

Village of Villa Park

Concrete and VCP Sewers to be Televised and Rehabilitated

Table A-4

ASSET ID	BASIN ID	USMH	DSMH	MATERIAL	DIAMETER (in)	ROUTE	LENGTH (ft)
6-008_6-007	6	6-008	6-007	VCP	12	TERRY LN	59
6-009_6-008	6	6-009	6-008	VCP	12	TERRY LN	446
6-011_6-009	6	6-011	6-009	VCP	12	TERRY LN	406
6-034_6-027	6	6-034	6-027	CONCRETE	8	TERRY LN	33
6-037_6-036	6	6-037	6-036	VCP	8	VAN BUREN ST	220
6-049_6-048	6	6-049	6-048	VCP	8	SUMMIT AVE	242
6-053_6-250	6	6-053	6-250	VCP	10	HARRISON ST	53
6-054_6-053	6	6-054	6-053	VCP	8	VILLA AVE	282
6-055_6-057	6	6-055	6-057	VCP	8	KOLBERG CT	197
6-056_6-055	6	6-056	6-055	VCP	8	VILLA AVE	256
6-057_6-054	6	6-057	6-054	VCP	8	VILLA AVE	284
6-058_6-059	6	6-058	6-059	VCP	8	VAN BUREN ST	199
6-059_6-200	6	6-059	6-200	VCP	8	VAN BUREN ST	283
6-060_6-061	6	6-060	6-061	VCP	8	VILLA AVE	55
6-061_6-062	6	6-061	6-062	VCP	8	<Null>	135
6-072_6-073	6	6-072	6-073	VCP	8	JULIA DR	252
6-073_6-074	6	6-073	6-074	VCP	8	JULIA DR	417
6-093_6-092	6	6-093	6-092	VCP	8	ARDMORE AVE	268
6-094_6-093	6	6-094	6-093	VCP	8	ARDMORE AVE	217
6-123_6-184	6	6-123	6-184	VCP	10	ARDMORE AVE	90
6-126_6-125	6	6-126	6-125	VCP	8	ARDMORE AVE	504
6-127_6-126	6	6-127	6-126	VCP	8	ARDMORE AVE	130
6-129_6-124	6	6-129	6-124	VCP	10	ARDMORE AVE	212
6-130_6-129	6	6-130	6-129	VCP	10	<Null>	230
6-131_6-132	6	6-131	6-132	VCP	8	<Null>	184
6-132_6-130	6	6-132	6-130	VCP	10	<Null>	250
6-133_6-132	6	6-133	6-132	VCP	10	<Null>	265
6-134_6-133	6	6-134	6-133	VCP	10	<Null>	129
6-135_6-134	6	6-135	6-134	VCP	10	<Null>	213
6-136_6-135	6	6-136	6-135	CONCRETE	10	<Null>	208
6-137_6-245	6	6-137	6-245	VCP	10	ROOSEVELT RD	124
6-138_6-134	6	6-138	6-134	VCP	10	<Null>	146
6-139_6-138	6	6-139	6-138	VCP	8	<Null>	274
6-141_6-139	6	6-141	6-139	VCP	8	<Null>	300
6-142_6-141	6	6-142	6-141	VCP	8	<Null>	147
6-143_6-142	6	6-143	6-142	VCP	8	<Null>	272
6-144_6-183	6	6-144	6-183	VCP	8	<Null>	134
6-148_6-253	6	6-148	6-253	VCP	8	HARRISON ST	213
6-169_6-058	6	6-169	6-058	VCP	8	VAN BUREN ST	263
6-175_6-141	6	6-175	6-141	VCP	6	<Null>	225
6-183_6-143	6	6-183	6-143	VCP	8	<Null>	226
6-200_6-060	6	6-200	6-060	VCP	8	VAN BUREN ST	500
6-245_6-136	6	6-245	6-136	VCP	10	<Null>	21
6-246_6-050	6	6-246	6-050	VCP	8	HARRISON ST	66
6-293_NO-MH-02	6	6-293	NO-MH-02	VCP	<Null>	<Null>	145
6-900_6-925	6	6-900	6-925	VCP	8	VILLA AVE	122
6-901_6-908	6	6-901	6-908	VCP	8	VILLA AVE	278
6-908_6-172	6	6-908	6-172	VCP	8	VILLA AVE	86
6-909_6-932	6	6-909	6-932	VCP	8	VILLA AVE	299

Village of Villa Park

Concrete and VCP Sewers to be Televised and Rehabilitated

Table A-4

ASSET ID	BASIN ID	USMH	DSMH	MATERIAL	DIAMETER (in)	ROUTE	LENGTH (ft)
6-910_6-909	6	6-910	6-909	VCP	8	VILLA AVE	286
6-911_6-910	6	6-911	6-910	VCP	8	VILLA AVE	113
6-914_6-913	6	6-914	6-913	VCP	8	VILLA AVE	42
6-922_6-900	6	6-922	6-900	VCP	8	VILLA AVE	251
6-925_6-258	6	6-925	6-258	VCP	8	VILLA AVE	329
6-932_6-914	6	6-932	6-914	VCP	8	VILLA AVE	257
7-001_6-036	6	7-001	6-036	VCP	15	SUMMIT AVE	219
7-002_7-001	7	7-002	7-001	VCP	15	SUMMIT AVE	223
7-003_7-002	7	7-003	7-002	VCP	12	JACKSON ST	213
7-004_7-003	7	7-004	7-003	VCP	12	JACKSON ST	226
7-005_7-004	7	7-005	7-004	VCP	12	JACKSON ST	218
7-006_7-005	7	7-006	7-005	VCP	12	JACKSON ST	216
7-007_7-006	7	7-007	7-006	VCP	12	JACKSON ST	213
7-008_7-009	7	7-008	7-009	VCP	8	ADAMS ST	213
7-009_7-010	7	7-009	7-010	VCP	8	ADAMS ST	221
7-010_7-011	7	7-010	7-011	VCP	8	ADAMS ST	219
7-016_7-015	7	7-016	7-015	VCP	8	MONROE ST	219
7-027_7-026	7	7-027	7-026	VCP	8	MADISON ST	221
7-028_7-027	7	7-028	7-027	VCP	8	MADISON ST	214
7-029_7-028	7	7-029	7-028	VCP	8	ARDMORE AVE	176
7-030_7-029	7	7-030	7-029	VCP	8	ARDMORE AVE	180
7-031_7-028	7	7-031	7-028	VCP	8	MADISON ST	218
7-032_7-031	7	7-032	7-031	VCP	8	MADISON ST	220
7-033_7-032	7	7-033	7-032	VCP	8	MADISON ST	218
7-034_7-033	7	7-034	7-033	VCP	8	MADISON ST	225
7-035_7-034	7	7-035	7-034	VCP	8	MADISON ST	225
7-047_7-048	7	7-047	7-048	VCP	8	ARDMORE AVE	209
7-048_7-049	7	7-048	7-049	VCP	8	ARDMORE AVE	207
7-049_7-050	7	7-049	7-050	VCP	8	ARDMORE AVE	208
7-050_7-051	7	7-050	7-051	VCP	8	ARDMORE AVE	210
7-051_7-007	7	7-051	7-007	VCP	10	JACKSON ST	217
7-063_7-060	7	7-063	7-060	VCP	8	HARVARD AVE	210
7-070_7-073	7	7-070	7-073	VCP	8	JACKSON ST	198
7-073_7-069	7	7-073	7-069	VCP	8	JACKSON ST	190
7-080_7-035	7	7-080	7-035	VCP	8	MADISON ST	208
8-002_6-137	6	8-002	6-137	VCP	8	ROOSEVELT RD	104
8-003_8-010	8	8-003	8-010	VCP	8	ROOSEVELT RD	41
8-004_8-002	8	8-004	8-002	VCP	8	ROOSEVELT RD	179
8-005_8-004	8	8-005	8-004	VCP	8	ROOSEVELT RD	344
8-006_8-005	8	8-006	8-005	VCP	8	ROOSEVELT RD	249
8-007_8-006	8	8-007	8-006	VCP	8	ARDMORE AVE	128
8-008_8-007	8	8-008	8-007	VCP	8	ARDMORE AVE	79
8-009_8-008	8	8-009	8-008	VCP	8	ARDMORE AVE	203
8-010_8-002	8	8-010	8-002	VCP	8	ROOSEVELT RD	56
8-021_8-026	8	8-021	8-026	VCP	8	ROOSEVELT RD	42
8-022_8-009	8	8-022	8-009	VCP	8	ARDMORE AVE	100
8-023_NO-MH-06	8	8-023	NO-MH-06	VCP	8	ROOSEVELT RD	34
8-024_8-023	8	8-024	8-023	VCP	8	ROOSEVELT RD	302
8-025_8-024	8	8-025	8-024	VCP	8	ROOSEVELT RD	302

Village of Villa Park

Concrete and VCP Sewers to be Televised and Rehabilitated

Table A-4

ASSET ID	BASIN ID	USMH	DSMH	MATERIAL	DIAMETER (in)	ROUTE	LENGTH (ft)
8-026_8-025	8	8-026	8-025	VCP	8	ROOSEVELT RD	261
NO-MH-06_8-003	8	NO-MH-06	8-003	VCP	8	ROOSEVELT RD	211
NO-MH-32_2-935	2	NO-MH-32	2-935	VCP	8	HILL ST	49
NO-MH-37_5-021	5	NO-MH-37	5-021	VCP	6	MADISON ST	301
NO-MH-42_6-131	6	NO-MH-42	6-131	VCP	8	<Null>	151
NO-MH-48_8-026	8	NO-MH-48	8-026	VCP	8	MICHIGAN AVE	138
RJN-2-010-A_2-009	<Null>	2-010	RJN-2-010-A	CONCRETE	15	VILLA AVE	330
UNK_7-065	7	UNK	7-065	VCP	8	<Null>	53

Village of Villa Park

Unreinforced Concrete Sewers to be Televised and Rehabilitated (Exhibit A-8)

Table A-5

ASSET ID	USMH	DSMH	MATERIAL	DIAMETER (in)	STREET	LENGTH (ft)
3-021_3-020	3-021	3-020	CONCRETE	10	ADDISON RD	200
3-028_3-027	3-028	3-027	CONCRETE	10	THIRD AVE	266
3-052_3-053	3-052	3-053	CONCRETE	10	SECOND AVE	303
6-122_6-238	6-122	6-238	CONCRETE	10	ARDMORE AVE	119
6-184_6-122	6-184	6-122	CONCRETE	10	ARDMORE AVE	195
3-144_3-024	3-144	3-024	CONCRETE	10	ADDISON RD	298
3-025_3-144	3-025	3-144	CONCRETE	10	ADDISON RD	229
3-013_3-012	3-013	3-012	CONCRETE	8	ADDISON RD	296
6-092_6-091	6-092	6-091	CONCRETE	8	ARDMORE AVE	352
6-091_6-107	6-091	6-107	CONCRETE	8	ARDMORE AVE	5
6-124_6-123	6-124	6-123	CONCRETE	10	ARDMORE AVE	259
3-023_3-022	3-023	3-022	CONCRETE	10	ADDISON RD	383
3-022_3-021	3-022	3-021	CONCRETE	10	ADDISON RD	372
3-032_3-031	3-032	3-031	CONCRETE	10	THIRD AVE	333
3-033_3-032	3-033	3-032	CONCRETE	10	THIRD AVE	331
3-034_3-033	3-034	3-033	CONCRETE	10	THIRD AVE	323
3-038_3-037	3-038	3-037	CONCRETE	8	RIDGE RD	179
3-051_3-052	3-051	3-052	CONCRETE	10	SECOND AVE	310
3-049_3-050	3-049	3-050	CONCRETE	10	SECOND AVE	328
3-048_3-049	3-048	3-049	CONCRETE	10	SECOND AVE	325
3-047_3-048	3-047	3-048	CONCRETE	10	SECOND AVE	328
3-029_3-028	3-029	3-028	CONCRETE	10	THIRD AVE	261
3-031_3-030	3-031	3-030	CONCRETE	10	THIRD AVE	334
3-057_3-056	3-057	3-056	CONCRETE	10	BIERMANN AVE	396
3-058_3-057	3-058	3-057	CONCRETE	10	BIERMANN AVE	396
1-084_1-083	1-084	1-083	CONCRETE	8	ARDMORE AVE	525

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
1-023_1-022	1-023	1-022	18	514	Villa	237.3	10	X		
1-035_1-021	1-035	1-021	8	489	Villa	102	2			X
1-035_1-021	1-035	1-021	8	489	Villa	142.6	3	X		
1-035_1-021	1-035	1-021	8	489	Villa	188.9	2		X	
1-035_1-021	1-035	1-021	8	489	Villa	243	2	X		
1-035_1-021	1-035	1-021	8	489	Villa	293.3	2	X		
1-035_1-021	1-035	1-021	8	489	Villa	340.9	2	X		
1-035_1-021	1-035	1-021	8	489	Villa	391.1	2		X	
1-035_1-021	1-035	1-021	8	489	Villa	400.3	2	X		
1-036_1-035	1-036	1-035	8	505	Plymouth	10.3	9	X		
1-036_1-035	1-036	1-035	8	505	Plymouth	99.4	9	X		
1-036_1-035	1-036	1-035	8	505	Plymouth	164.5	9	X		
1-036_1-035	1-036	1-035	8	505	Plymouth	259.5	9	X		
1-036_1-035	1-036	1-035	8	505	Plymouth	283.2	9	X		
1-036_1-035	1-036	1-035	8	505	Plymouth	362	9			X
1-037_1-038	1-037	1-038	8	402	Hamilton	61	3	X		
1-037_1-038	1-037	1-038	8	402	Hamilton	63.3	9	X		
1-037_1-038	1-037	1-038	8	402	Hamilton	117.9	2			X
1-037_1-038	1-037	1-038	8	402	Hamilton	123.2	3	X		
1-037_1-038	1-037	1-038	8	402	Hamilton	126.5	9	X		
1-037_1-038	1-037	1-038	8	402	Hamilton	183.7	3	X		
1-037_1-038	1-037	1-038	8	402	Hamilton	186.9	9	X		
1-037_1-038	1-037	1-038	8	402	Hamilton	276.6	3	X		
1-037_1-038	1-037	1-038	8	402	Hamilton	279.3	9	X		
1-039_1-038	1-039	1-038	8	225	Hamilton	34	9	X		
1-040_1-041	1-040	1-041	8	243	Gerard	7.6	9	X		
1-040_1-041	1-040	1-041	8	243	Gerard	10.4	3	X		
1-040_1-041	1-040	1-041	8	243	Gerard	49.2	3	X		
1-040_1-041	1-040	1-041	8	243	Gerard	52	9	X		
1-041_1-038	1-041	1-038	18	341	Vermont	44.4	3	X		
1-041_1-038	1-041	1-038	18	341	Vermont	97.9	10	X		
1-041_1-038	1-041	1-038	18	341	Vermont	100.8	3	X		
1-041_1-038	1-041	1-038	18	341	Vermont	160.9	10	X		
1-041_1-038	1-041	1-038	18	341	Vermont	163.7	3	X		
1-041_1-038	1-041	1-038	18	341	Vermont	220.5	10	X		
1-041_1-038	1-041	1-038	18	341	Vermont	247.4	3	X		
1-041_1-038	1-041	1-038	18	341	Vermont	273.8	12		X	
1-041_1-038	1-041	1-038	18	341	Vermont	277.2	3	X		
1-042_1-041	1-042	1-041	8	420	Gerard	17.6	10		X	
1-042_1-041	1-042	1-041	8	420	Gerard	20	3	X		
1-042_1-041	1-042	1-041	8	420	Gerard	58.5	9	X		
1-042_1-041	1-042	1-041	8	420	Gerard	82.7	3	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
1-042_1-041	1-042	1-041	8	420	Gerard	145.4	3	X		
1-042_1-041	1-042	1-041	8	420	Gerard	200.2	3	X		
1-042_1-041	1-042	1-041	8	420	Gerard	202.4	9	X		
1-042_1-041	1-042	1-041	8	420	Gerard	277.7	9	X		
1-042_1-041	1-042	1-041	8	420	Gerard	281.1	3	X		
1-043_1-045	1-043	1-045	8	262	Plymouth	16.6	2		X	
1-043_1-045	1-043	1-045	8	262	Plymouth	100.5	2			X
1-043_1-045	1-043	1-045	8	262	Plymouth	156	3		X	
1-045_1-046	1-045	1-046	8	320	Fulton	90.1	3	X		
1-045_1-046	1-045	1-046	8	320	Fulton	93	9	X		
1-045_1-046	1-045	1-046	8	320	Fulton	224.1	9	X		
1-045_1-046	1-045	1-046	8	320	Fulton	227	3	X		
1-045_1-046	1-045	1-046	8	320	Fulton	292.2	9	X		
1-045_1-046	1-045	1-046	8	320	Fulton	295.3	3	X		
1-047_1-041	1-047	1-041	18	333	Vermont	44.9	10	X		
1-047_1-041	1-047	1-041	18	333	Vermont	49	3	X		
1-047_1-041	1-047	1-041	18	333	Vermont	93.1	9	X		
1-047_1-041	1-047	1-041	18	333	Vermont	95.8	3	X		
1-047_1-041	1-047	1-041	18	333	Vermont	156.4	9		X	
1-047_1-041	1-047	1-041	18	333	Vermont	156.4	3	X		
1-047_1-041	1-047	1-041	18	333	Vermont	162.5	3		X	
1-047_1-041	1-047	1-041	18	333	Vermont	204.6	3		X	
1-047_1-041	1-047	1-041	18	333	Vermont	209.7	10	X		
1-047_1-041	1-047	1-041	18	333	Vermont	213.4	2	X		
1-047_1-041	1-047	1-041	18	333	Vermont	255	1	X		
1-047_1-041	1-047	1-041	18	333	Vermont	262.6	2		X	
1-049_1-050	1-049	1-050	8	267	Ellsworth	38.7	2			X
1-049_1-050	1-049	1-050	8	267	Ellsworth	90.9	9	X		
1-049_1-050	1-049	1-050	8	267	Ellsworth	181	9	X		
1-049_1-050	1-049	1-050	8	267	Ellsworth	183.2	3	X		
1-050_1-047	1-050	1-047	18	345	Vermont	43.9	10	X		
1-050_1-047	1-050	1-047	18	345	Vermont	45.9	3	X		
1-050_1-047	1-050	1-047	18	345	Vermont	103.2	9	X		
1-050_1-047	1-050	1-047	18	345	Vermont	106.3	3	X		
1-050_1-047	1-050	1-047	18	345	Vermont	159.3	10	X		
1-050_1-047	1-050	1-047	18	345	Vermont	162.9	3	X		
1-050_1-047	1-050	1-047	18	345	Vermont	218.9	10	X		
1-050_1-047	1-050	1-047	18	345	Vermont	222	2	X		
1-053_1-052	1-053	1-052	8	372	Ellsworth	49.2	3		X	
1-053_1-052	1-053	1-052	8	372	Ellsworth	75.9	3	X		
1-053_1-052	1-053	1-052	8	372	Ellsworth	79.6	10			X
1-053_1-052	1-053	1-052	8	372	Ellsworth	84.5	9	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
1-053_1-052	1-053	1-052	8	372	Ellsworth	137.8	9	X		
1-053_1-052	1-053	1-052	8	372	Ellsworth	182.1	3	X		
1-053_1-052	1-053	1-052	8	372	Ellsworth	190.9	9	X		
1-053_1-052	1-053	1-052	8	372	Ellsworth	202.6	9	X		
1-053_1-052	1-053	1-052	8	372	Ellsworth	238.3	3		X	
1-053_1-052	1-053	1-052	8	372	Ellsworth	288.4	9	X		
1-053_1-052	1-053	1-052	8	372	Ellsworth	297.6	3	X		
1-053_1-052	1-053	1-052	8	372	Ellsworth	315.3	9	X		
1-053_1-052	1-053	1-052	8	372	Ellsworth	327	3	X		
1-054_1-055	1-054	1-055	8	200	Sunset	134.3	3	X		
1-055_1-058	1-055	1-058	8	271	Douglas	78.5	3	X		
1-055_1-058	1-055	1-058	8	271	Douglas	81.7	9	X		
1-055_1-058	1-055	1-058	8	271	Douglas	123.6	9	X		
1-055_1-058	1-055	1-058	8	271	Douglas	159.4	3	X		
1-055_1-058	1-055	1-058	8	271	Douglas	177.3	3	X		
1-055_1-058	1-055	1-058	8	271	Douglas	222	9	X		
1-055_1-058	1-055	1-058	8	271	Douglas	233.9	3	X		
1-056_1-055	1-056	1-055	8	346	Sunset	68.1	9	X		
1-056_1-055	1-056	1-055	8	346	Sunset	71.2	3	X		
1-056_1-055	1-056	1-055	8	346	Sunset	182.2	9	X		
1-056_1-055	1-056	1-055	8	346	Sunset	283.3	9	X		
1-057_1-056	1-057	1-056	8	352	Sunset	105.8	9			X
1-057_1-056	1-057	1-056	8	352	Sunset	112.1	9	X		
1-057_1-056	1-057	1-056	8	352	Sunset	193.1	9	X		
1-057_1-056	1-057	1-056	8	352	Sunset	272	9		X	
1-057_1-056	1-057	1-056	8	352	Sunset	274	3	X		
1-058_1-059	1-058	1-059	8	207	Douglas	11	9	X		
1-058_1-059	1-058	1-059	8	207	Douglas	29	3	X		
1-058_1-059	1-058	1-059	8	207	Douglas	55.8	9	X		
1-058_1-059	1-058	1-059	8	207	Douglas	85.9	3	X		
1-058_1-059	1-058	1-059	8	207	Douglas	139.6	9	X		
1-058_1-059	1-058	1-059	8	207	Douglas	141.6	3		X	
1-058_1-059	1-058	1-059	8	207	Douglas	145.6	9	X		
1-059_1-060	1-059	1-060	8	300	Douglas	98.5	9	X		
1-059_1-060	1-059	1-060	8	300	Douglas	100.9	3	X		
1-059_1-060	1-059	1-060	8	300	Douglas	156.4	3		X	
1-059_1-060	1-059	1-060	8	300	Douglas	158.6	9	X		
1-059_1-060	1-059	1-060	8	300	Douglas	170.3	9	X		
1-059_1-060	1-059	1-060	8	300	Douglas	223.3	9		X	
1-059_1-060	1-059	1-060	8	300	Douglas	254.7	3		X	
1-059_1-060	1-059	1-060	8	300	Douglas	257.1	9	X		
1-060_1-061	1-060	1-061	8	301	Douglas	17.4	3	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
1-060_1-061	1-060	1-061	8	301	Douglas	20.8	9	X		
1-060_1-061	1-060	1-061	8	301	Douglas	62.1	3	X		
1-060_1-061	1-060	1-061	8	301	Douglas	74.1	9	X		
1-060_1-061	1-060	1-061	8	301	Douglas	198.5	9	X		
1-060_1-061	1-060	1-061	8	301	Douglas	201.4	3	X		
1-061_1-050	1-061	1-050	18	330	Vermont	86.4	2			X
1-061_1-050	1-061	1-050	18	330	Vermont	102.2	9	X		
1-061_1-050	1-061	1-050	18	330	Vermont	105.5	2	X		
1-061_1-050	1-061	1-050	18	330	Vermont	148.6	10		X	
1-061_1-050	1-061	1-050	18	330	Vermont	148.7	2		X	
1-061_1-050	1-061	1-050	18	330	Vermont	214.9	3		X	
1-061_1-050	1-061	1-050	18	330	Vermont	235.9	9		X	
1-061_1-050	1-061	1-050	18	330	Vermont	247.9	2		X	
1-061_1-050	1-061	1-050	18	330	Vermont	262.1	9		X	
1-061_1-050	1-061	1-050	18	330	Vermont	271.1	3	X		
1-062_1-061	1-062	1-061	8	300	Douglas	44	9	X		
1-062_1-061	1-062	1-061	8	300	Douglas	47	3	X		
1-062_1-061	1-062	1-061	8	300	Douglas	102.5	3		X	
1-062_1-061	1-062	1-061	8	300	Douglas	105.1	9	X		
1-063_1-064	1-063	1-064	8	302	Chatham	36	9	X		
1-063_1-064	1-063	1-064	8	302	Chatham	39.4	3	X		
1-063_1-064	1-063	1-064	8	302	Chatham	101.7	9	X		
1-063_1-064	1-063	1-064	8	302	Chatham	104.8	3	X		
1-063_1-064	1-063	1-064	8	302	Chatham	212.7	9		X	
1-063_1-064	1-063	1-064	8	302	Chatham	214.9	3		X	
1-064_1-061	1-064	1-061	18	349	Vermont	126.6	10		X	
1-064_1-061	1-064	1-061	18	349	Vermont	130.1	3	X		
1-064_1-061	1-064	1-061	18	349	Vermont	156.9	9		X	
1-064_1-061	1-064	1-061	18	349	Vermont	187.4	3	X		
1-064_1-061	1-064	1-061	18	349	Vermont	234.7	3	X		
1-064_1-061	1-064	1-061	18	349	Vermont	249	9		X	
1-064_1-061	1-064	1-061	18	349	Vermont	284.7	3	X		
1-065_1-064	1-065	1-064	8	302	Chatham	26.3	9	X		
1-065_1-064	1-065	1-064	8	302	Chatham	28.8	3	X		
1-065_1-064	1-065	1-064	8	302	Chatham	76.9	9	X		
1-065_1-064	1-065	1-064	8	302	Chatham	79.8	3	X		
1-065_1-064	1-065	1-064	8	302	Chatham	194	9		X	
1-065_1-064	1-065	1-064	8	302	Chatham	196.2	3		X	
1-066_1-065	1-066	1-065	8	325	Chatham	77	10		X	
1-066_1-065	1-066	1-065	8	325	Chatham	78.7	3		X	
1-066_1-065	1-066	1-065	8	325	Chatham	169.6	9		X	
1-066_1-065	1-066	1-065	8	325	Chatham	171.5	3	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
1-066_1-065	1-066	1-065	8	325	Chatham	234.4	3	X		
1-066_1-065	1-066	1-065	8	325	Chatham	249.5	9	X		
1-066_1-065	1-066	1-065	8	325	Chatham	291	9	X		
1-066_1-065	1-066	1-065	8	325	Chatham	293.8	3	X		
1-067_1-066	1-067	1-066	8	300	Chatham	24.1	3		X	
1-067_1-066	1-067	1-066	8	300	Chatham	44.4	3	X		
1-067_1-066	1-067	1-066	8	300	Chatham	97.9	9	X		
1-067_1-066	1-067	1-066	8	300	Chatham	106.9	9	X		
1-067_1-066	1-067	1-066	8	300	Chatham	109.9	3	X		
1-067_1-066	1-067	1-066	8	300	Chatham	220.5	3	X		
1-067_1-066	1-067	1-066	8	300	Chatham	223.3	9	X		
1-067_1-066	1-067	1-066	8	300	Chatham	239	9		X	
1-067_1-066	1-067	1-066	8	300	Chatham	280.2	3	X		
1-068_1-069	1-068	1-069	9	309	Beverly	6	10		X	
1-068_1-069	1-068	1-069	9	309	Beverly	10.3	2		X	
1-068_1-069	1-068	1-069	9	309	Beverly	67.7	9	X		
1-068_1-069	1-068	1-069	9	309	Beverly	71.3	3	X		
1-068_1-069	1-068	1-069	9	309	Beverly	131.1	9	X		
1-068_1-069	1-068	1-069	9	309	Beverly	133.8	3	X		
1-068_1-069	1-068	1-069	9	309	Beverly	187.4	9	X		
1-068_1-069	1-068	1-069	9	309	Beverly	232.4	3	X		
1-068_1-069	1-068	1-069	9	309	Beverly	253.2	3	X		
1-068_1-069	1-068	1-069	9	309	Beverly	274	9	X		
1-069_1-070	1-069	1-070	8	345	Beverly	83.2	9	X		
1-069_1-070	1-069	1-070	8	345	Beverly	86.4	3	X		
1-069_1-070	1-069	1-070	8	345	Beverly	160.6	9	X		
1-069_1-070	1-069	1-070	8	345	Beverly	163.3	3	X		
1-069_1-070	1-069	1-070	8	345	Beverly	213.9	3	X		
1-069_1-070	1-069	1-070	8	345	Beverly	216.9	9	X		
1-069_1-070	1-069	1-070	8	345	Beverly	270.2	3	X		
1-069_1-070	1-069	1-070	8	345	Beverly	273.3	9	X		
1-069_1-070	1-069	1-070	8	345	Beverly	297	3	X		
1-069_1-070	1-069	1-070	8	345	Beverly	300.2	9	X		
1-070_1-071	1-070	1-071	8	301	Beverly	22.8	3		X	
1-070_1-071	1-070	1-071	8	301	Beverly	24.8	9	X		
1-070_1-071	1-070	1-071	8	301	Beverly	82.4	3	X		
1-070_1-071	1-070	1-071	8	301	Beverly	85.1	9	X		
1-070_1-071	1-070	1-071	8	301	Beverly	189.3	3	X		
1-070_1-071	1-070	1-071	8	301	Beverly	192.3	9	X		
1-071_1-064	1-071	1-064	18	336	Vermont	51.5	2		X	
1-071_1-064	1-071	1-064	18	336	Vermont	55.5	10	X		
1-071_1-064	1-071	1-064	18	336	Vermont	55.5	2	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
1-071_1-064	1-071	1-064	18	336	Vermont	105.3	10		X	
1-071_1-064	1-071	1-064	18	336	Vermont	107.6	2		X	
1-071_1-064	1-071	1-064	18	336	Vermont	164.5	2		X	
1-071_1-064	1-071	1-064	18	336	Vermont	168.4	10	X		
1-071_1-064	1-071	1-064	18	336	Vermont	218.5	10	X		
1-071_1-064	1-071	1-064	18	336	Vermont	222.6	2	X		
1-072_1-071	1-072	1-071	18	460	Beverly	202.1	10	X		
1-072_1-071	1-072	1-071	18	460	Beverly	205.4	2	X		
1-072_1-071	1-072	1-071	18	460	Beverly	273.6	10	X		
1-072_1-071	1-072	1-071	18	460	Beverly	278.1	2	X		
1-072_1-071	1-072	1-071	18	460	Beverly	302.5	10		X	
1-072_1-071	1-072	1-071	18	460	Beverly	375.7	10		X	
1-074_1-075	1-074	1-075	8	366	Ardmore	6.7	9	X		
1-074_1-075	1-074	1-075	8	366	Ardmore	52.6	9	X		
1-074_1-075	1-074	1-075	8	366	Ardmore	79.5	9	X		
1-074_1-075	1-074	1-075	8	366	Ardmore	148	9	X		
1-074_1-075	1-074	1-075	8	366	Ardmore	201.7	9	X		
1-074_1-075	1-074	1-075	8	366	Ardmore	211.6	9	X		
1-074_1-075	1-074	1-075	8	366	Ardmore	249	9	X		
1-074_1-075	1-074	1-075	8	366	Ardmore	305.7	9	X		
1-076_1-073	1-076	1-073	10	505	Ardmore	48.7	10	X		
1-076_1-073	1-076	1-073	10	505	Ardmore	111.5	10	X		
1-076_1-073	1-076	1-073	10	505	Ardmore	153.2	2	X		
1-076_1-073	1-076	1-073	10	505	Ardmore	162.4	10	X		
1-076_1-073	1-076	1-073	10	505	Ardmore	213	10	X		
1-076_1-073	1-076	1-073	10	505	Ardmore	260.6	10	X		
1-076_1-073	1-076	1-073	10	505	Ardmore	279	2	X		
1-076_1-073	1-076	1-073	10	505	Ardmore	299.7	2	X		
1-076_1-073	1-076	1-073	10	505	Ardmore	350.4	2	X		
1-077_1-076	1-077	1-076	10	319	Ardmore	22.8	10	X		
1-077_1-076	1-077	1-076	10	319	Ardmore	70.6	10	X		
1-077_1-076	1-077	1-076	10	319	Ardmore	119.3	9	X		
1-077_1-076	1-077	1-076	10	319	Ardmore	167.7	10	X		
1-077_1-076	1-077	1-076	10	319	Ardmore	233.7	10	X		
1-078_1-077	1-078	1-077	10	305	Ardmore	37.8	9	X		
1-078_1-077	1-078	1-077	10	305	Ardmore	96.3	10	X		
1-078_1-077	1-078	1-077	10	305	Ardmore	154.3	10	X		
1-078_1-077	1-078	1-077	10	305	Ardmore	213.8	9	X		
1-078_1-077	1-078	1-077	10	305	Ardmore	276.6	9	X		
1-079_1-078	1-079	1-078	10	460	Ardmore	76.1	9	X		
1-079_1-078	1-079	1-078	10	460	Ardmore	132	10	X		
1-079_1-078	1-079	1-078	10	460	Ardmore	178.6	3	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
1-079_1-078	1-079	1-078	10	460	Ardmore	192.5	9	X		
1-079_1-078	1-079	1-078	10	460	Ardmore	250.7	9	X		
1-079_1-078	1-079	1-078	10	460	Ardmore	313.5	9	X		
1-079_1-078	1-079	1-078	10	460	Ardmore	362.1	9	X		
1-080_1-079	1-080	1-079	10	440	Ardmore	14.5	10		X	
1-080_1-079	1-080	1-079	10	440	Ardmore	47.8	9	X		
1-080_1-079	1-080	1-079	10	440	Ardmore	140.2	10		X	
1-080_1-079	1-080	1-079	10	440	Ardmore	236.6	9	X		
1-080_1-079	1-080	1-079	10	440	Ardmore	371.8	10		X	
1-081_1-158	1-081	1-158	8	287	Ardmore	33.7	9	X		
1-081_1-158	1-081	1-158	8	287	Ardmore	59	9		X	
1-081_1-158	1-081	1-158	8	287	Ardmore	90	9	X		
1-081_1-158	1-081	1-158	8	287	Ardmore	140.5	9	X		
1-081_1-158	1-081	1-158	8	287	Ardmore	191.7	10	X		
1-081_1-158	1-081	1-158	8	287	Ardmore	239.4	9	X		
1-083_1-082	1-083	1-082	8	501	Ardmore	15.9	2		X	
1-083_1-082	1-083	1-082	8	501	Ardmore	24.3	3	X		
1-083_1-082	1-083	1-082	8	501	Ardmore	71.1	2	X		
1-083_1-082	1-083	1-082	8	501	Ardmore	75.1	2		X	
1-083_1-082	1-083	1-082	8	501	Ardmore	122.4	3	X		
1-083_1-082	1-083	1-082	8	501	Ardmore	173.2	3	X		
1-083_1-082	1-083	1-082	8	501	Ardmore	182.9	3	X		
1-083_1-082	1-083	1-082	8	501	Ardmore	220.7	3	X		
1-083_1-082	1-083	1-082	8	501	Ardmore	262.5	2		X	
1-083_1-082	1-083	1-082	8	501	Ardmore	271.4	3	X		
1-083_1-082	1-083	1-082	8	501	Ardmore	319	3	X		
1-083_1-082	1-083	1-082	8	501	Ardmore	370.4	3	X		
1-083_1-082	1-083	1-082	8	501	Ardmore	418.1	3	X		
1-091_1-090	1-091	1-090	8	225	Ridge	34.2	3			X
1-091_1-090	1-091	1-090	8	225	Ridge	37	3	X		
1-091_1-090	1-091	1-090	8	225	Ridge	75.4	3	X		
1-091_1-090	1-091	1-090	8	225	Ridge	85.2	2			X
1-091_1-090	1-091	1-090	8	225	Ridge	125.1	3	X		
1-091_1-090	1-091	1-090	8	225	Ridge	140.7	2			X
1-091_1-090	1-091	1-090	8	225	Ridge	172.5	3	X		
1-091_1-090	1-091	1-090	8	225	Ridge	190	2			X
1-092_1-093	1-092	1-093	10	249	Princeton	65.8	2	X		
1-092_1-093	1-092	1-093	10	249	Princeton	68.8	10	X		
1-092_1-093	1-092	1-093	10	249	Princeton	111.2	2	X		
1-092_1-093	1-092	1-093	10	249	Princeton	114.1	9	X		
1-092_1-093	1-092	1-093	10	249	Princeton	159.9	2	X		
1-092_1-093	1-092	1-093	10	249	Princeton	162.4	10	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
1-092_1-093	1-092	1-093	10	249	Princeton	195.3	2	X		
1-092_1-093	1-092	1-093	10	249	Princeton	198.1	10	X		
1-092_1-093	1-092	1-093	10	249	Princeton	234.6	2	X		
1-092_1-093	1-092	1-093	10	249	Princeton	237.4	10	X		
1-095_1-096	1-095	1-096	10	345	Princeton	31	1	X		
1-095_1-096	1-095	1-096	10	345	Princeton	35.6	10	X		
1-095_1-096	1-095	1-096	10	345	Princeton	68	10	X		
1-095_1-096	1-095	1-096	10	345	Princeton	70.7	2	X		
1-095_1-096	1-095	1-096	10	345	Princeton	155.9	2	X		
1-095_1-096	1-095	1-096	10	345	Princeton	159.9	10	X		
1-095_1-096	1-095	1-096	10	345	Princeton	178.3	1	X		
1-095_1-096	1-095	1-096	10	345	Princeton	181.8	10	X		
1-095_1-096	1-095	1-096	10	345	Princeton	226.3	1	X		
1-095_1-096	1-095	1-096	10	345	Princeton	230.8	10	X		
1-095_1-096	1-095	1-096	10	345	Princeton	285.3	2	X		
1-095_1-096	1-095	1-096	10	345	Princeton	289.4	11	X		
1-096_1-097	1-096	1-097	10	335	Princeton	47.5	10	X		
1-096_1-097	1-096	1-097	10	335	Princeton	102.4	2	X		
1-096_1-097	1-096	1-097	10	335	Princeton	142.4	2	X		
1-096_1-097	1-096	1-097	10	335	Princeton	146.4	11	X		
1-096_1-097	1-096	1-097	10	335	Princeton	174	1	X		
1-096_1-097	1-096	1-097	10	335	Princeton	179.4	10	X		
1-096_1-097	1-096	1-097	10	335	Princeton	245.3	1	X		
1-096_1-097	1-096	1-097	10	335	Princeton	249.7	10	X		
1-096_1-097	1-096	1-097	10	335	Princeton	273.1	2	X		
1-096_1-097	1-096	1-097	10	335	Princeton	277.3	10	X		
1-097_1-098	1-097	1-098	10	268	Princeton	10.5	10	X		
1-097_1-098	1-097	1-098	10	268	Princeton	15.1	2	X		
1-097_1-098	1-097	1-098	10	268	Princeton	59.6	10	X		
1-097_1-098	1-097	1-098	10	268	Princeton	70.9	2	X		
1-097_1-098	1-097	1-098	10	268	Princeton	119	2		X	
1-102_1-101	1-102	1-101	8	331	Harvard	4	10	X		
1-102_1-101	1-102	1-101	8	331	Harvard	10.3	2	X		
1-102_1-101	1-102	1-101	8	331	Harvard	16.6	10	X		
1-102_1-101	1-102	1-101	8	331	Harvard	40	2	X		
1-102_1-101	1-102	1-101	8	331	Harvard	66.6	9	X		
1-102_1-101	1-102	1-101	8	331	Harvard	81.2	3	X		
1-102_1-101	1-102	1-101	8	331	Harvard	119.9	3	X		
1-102_1-101	1-102	1-101	8	331	Harvard	143.4	9	X		
1-102_1-101	1-102	1-101	8	331	Harvard	191.1	9	X		
1-102_1-101	1-102	1-101	8	331	Harvard	194.2	3	X		
1-102_1-101	1-102	1-101	8	331	Harvard	244.4	9	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
1-102_1-101	1-102	1-101	8	331	Harvard	247.4	3	X		
1-102_1-101	1-102	1-101	8	331	Harvard	289	2		X	
1-102_1-101	1-102	1-101	8	331	Harvard	292.3	9	X		
1-103_1-104	1-103	1-104	8	346	Harvard	20.1	9	X		
1-103_1-104	1-103	1-104	8	346	Harvard	41.3	3	X		
1-103_1-104	1-103	1-104	8	346	Harvard	94.6	3	X		
1-103_1-104	1-103	1-104	8	346	Harvard	97.4	9	X		
1-103_1-104	1-103	1-104	8	346	Harvard	142.8	3	X		
1-103_1-104	1-103	1-104	8	346	Harvard	145.7	9	X		
1-103_1-104	1-103	1-104	8	346	Harvard	207.6	9	X		
1-103_1-104	1-103	1-104	8	346	Harvard	228.4	3	X		
1-103_1-104	1-103	1-104	8	346	Harvard	240.4	9	X		
1-103_1-104	1-103	1-104	8	346	Harvard	243.6	3	X		
1-103_1-104	1-103	1-104	8	346	Harvard	312.1	9	X		
1-103_1-104	1-103	1-104	8	346	Harvard	320.9	3	X		
1-104_1-217	1-104	1-217	8	205	Harvard	8.2	9	X		
1-104_1-217	1-104	1-217	8	205	Harvard	32.2	3	X		
1-104_1-217	1-104	1-217	8	205	Harvard	58.9	3	X		
1-104_1-217	1-104	1-217	8	205	Harvard	62.2	9	X		
1-104_1-217	1-104	1-217	8	205	Harvard	106	9	X		
1-104_1-217	1-104	1-217	8	205	Harvard	108.7	3	X		
1-104_1-217	1-104	1-217	8	205	Harvard	166.2	9	X		
1-106_1-107	1-106	1-107	8	398	Harvard	40.1	9	X		
1-106_1-107	1-106	1-107	8	398	Harvard	40.1	9	X		
1-106_1-107	1-106	1-107	8	398	Harvard	42.9	3	X		
1-106_1-107	1-106	1-107	8	398	Harvard	42.9	3	X		
1-106_1-107	1-106	1-107	8	398	Harvard	95.5	9	X		
1-106_1-107	1-106	1-107	8	398	Harvard	95.5	9	X		
1-106_1-107	1-106	1-107	8	398	Harvard	99.1	2	X		
1-106_1-107	1-106	1-107	8	398	Harvard	99.1	2	X		
1-106_1-107	1-106	1-107	8	398	Harvard	138	10	X		
1-106_1-107	1-106	1-107	8	398	Harvard	138	10	X		
1-106_1-107	1-106	1-107	8	398	Harvard	141.2	2	X		
1-106_1-107	1-106	1-107	8	398	Harvard	141.2	2	X		
1-106_1-107	1-106	1-107	8	398	Harvard	192.2	9	X		
1-106_1-107	1-106	1-107	8	398	Harvard	192.2	9	X		
1-106_1-107	1-106	1-107	8	398	Harvard	225	3	X		
1-106_1-107	1-106	1-107	8	398	Harvard	225	2	X		
1-106_1-107	1-106	1-107	8	398	Harvard	258	9	X		
1-106_1-107	1-106	1-107	8	398	Harvard	258	9	X		
1-106_1-107	1-106	1-107	8	398	Harvard	284.3	9	X		
1-106_1-107	1-106	1-107	8	398	Harvard	284.3	9	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
1-106_1-107	1-106	1-107	8	398	Harvard	311	3	X		
1-106_1-107	1-106	1-107	8	398	Harvard	311	3	X		
1-106_1-107	1-106	1-107	8	398	Harvard	341.4	10	X		
1-106_1-107	1-106	1-107	8	398	Harvard	341.4	9	X		
1-106_1-107	1-106	1-107	8	398	Harvard	356.4	9	X		
1-106_1-107	1-106	1-107	8	398	Harvard	356.4	9	X		
1-107_1-108	1-107	1-108	8	351	Harvard	6	9	X		
1-107_1-108	1-107	1-108	8	351	Harvard	25.8	9	X		
1-107_1-108	1-107	1-108	8	351	Harvard	130.3	10	X		
1-107_1-108	1-107	1-108	8	351	Harvard	213.2	9	X		
1-107_1-108	1-107	1-108	8	351	Harvard	263.4	9	X		
1-107_1-108	1-107	1-108	8	351	Harvard	311.1	9	X		
1-107_1-108	1-107	1-108	8	351	Harvard	338.3	2			X
1-108_1-109	1-108	1-109	8	348	Harvard	14.1	9	X		
1-108_1-109	1-108	1-109	8	348	Harvard	62.2	9	X		
1-108_1-109	1-108	1-109	8	348	Harvard	109.8	9	X		
1-108_1-109	1-108	1-109	8	348	Harvard	159.7	9			X
1-108_1-109	1-108	1-109	8	348	Harvard	205	9	X		
1-108_1-109	1-108	1-109	8	348	Harvard	216.1	9		X	
1-108_1-109	1-108	1-109	8	348	Harvard	246.1	9	X		
1-108_1-109	1-108	1-109	8	348	Harvard	250.4	9	X		
1-113_1-115	1-113	1-115	10	452	Ridge	72	9	X		
1-113_1-115	1-113	1-115	10	452	Ridge	132.1	9	X		
1-113_1-115	1-113	1-115	10	452	Ridge	183	9	X		
1-113_1-115	1-113	1-115	10	452	Ridge	225.2	9	X		
1-113_1-115	1-113	1-115	10	452	Ridge	273	9	X		
1-113_1-115	1-113	1-115	10	452	Ridge	339	10	X		
1-114_1-115	1-114	1-115	8	409	Yale	37.3	3	X		
1-114_1-115	1-114	1-115	8	409	Yale	69.5	3	X		
1-114_1-115	1-114	1-115	8	409	Yale	80.8	12			X
1-114_1-115	1-114	1-115	8	409	Yale	122.5	3	X		
1-114_1-115	1-114	1-115	8	409	Yale	187.9	3	X		
1-114_1-115	1-114	1-115	8	409	Yale	217.9	3	X		
1-114_1-115	1-114	1-115	8	409	Yale	283	3	X		
1-114_1-115	1-114	1-115	8	409	Yale	284.1	10			X
1-114_1-115	1-114	1-115	8	409	Yale	329.3	3	X		
1-114_1-115	1-114	1-115	8	409	Yale	368.2	3	X		
1-114_1-115	1-114	1-115	8	409	Yale	386.5	2			X
1-114_1-115	1-114	1-115	8	409	Yale	430.5	3	X		
1-115_1-090	1-115	1-090	10	453	Ridge	90.1	10			X
1-115_1-090	1-115	1-090	10	453	Ridge	218	10			X
1-115_1-090	1-115	1-090	10	453	Ridge	273.2	10	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
1-115_1-090	1-115	1-090	10	453	Ridge	320.9	2	X		
1-115_1-090	1-115	1-090	10	453	Ridge	324.1	10	X		
1-115_1-090	1-115	1-090	10	453	Ridge	365.8	10	X		
1-115_1-090	1-115	1-090	10	453	Ridge	372.8	9		X	
1-115_1-090	1-115	1-090	10	453	Ridge	417.1	10		X	
1-137_1-136	1-137	1-136	8	504	Michigan	44	9	X		
1-137_1-136	1-137	1-136	8	504	Michigan	46.5	3	X		
1-137_1-136	1-137	1-136	8	504	Michigan	82.5	9	X		
1-137_1-136	1-137	1-136	8	504	Michigan	91.9	3		X	
1-137_1-136	1-137	1-136	8	504	Michigan	140.5	9			X
1-137_1-136	1-137	1-136	8	504	Michigan	144.9	3			X
1-137_1-136	1-137	1-136	8	504	Michigan	188.8	2			X
1-137_1-136	1-137	1-136	8	504	Michigan	198.4	9			X
1-137_1-136	1-137	1-136	8	504	Michigan	212.7	2			X
1-137_1-136	1-137	1-136	8	504	Michigan	239.2	10			X
1-137_1-136	1-137	1-136	8	504	Michigan	290.4	10			X
1-137_1-136	1-137	1-136	8	504	Michigan	308.3	2			X
1-137_1-136	1-137	1-136	8	504	Michigan	388.4	2	X		
1-137_1-136	1-137	1-136	8	504	Michigan	409.3	10	X		
1-137_1-136	1-137	1-136	8	504	Michigan	454.3	10			X
1-137_1-136	1-137	1-136	8	504	Michigan	472	2	X		
1-138_1-137	1-138	1-137	8	343	Michigan	97.3	9	X		
1-138_1-137	1-138	1-137	8	343	Michigan	100.4	3	X		
1-138_1-137	1-138	1-137	8	343	Michigan	132	9	X		
1-138_1-137	1-138	1-137	8	343	Michigan	135.3	3	X		
1-138_1-137	1-138	1-137	8	343	Michigan	183.6	3	X		
1-138_1-137	1-138	1-137	8	343	Michigan	185.5	9	X		
1-138_1-137	1-138	1-137	8	343	Michigan	232.6	9	X		
1-138_1-137	1-138	1-137	8	343	Michigan	235.9	3	X		
1-138_1-137	1-138	1-137	8	343	Michigan	283.6	9	X		
1-138_1-137	1-138	1-137	8	343	Michigan	286.9	3	X		
1-138_1-137	1-138	1-137	8	343	Michigan	324.9	9	X		
1-138_1-137	1-138	1-137	8	343	Michigan	327.8	3	X		
1-141_1-142	1-141	1-142	8	317	Michigan	5	10		X	
1-141_1-142	1-141	1-142	8	317	Michigan	10.2	2	X		
1-141_1-142	1-141	1-142	8	317	Michigan	10.9	9	X		
1-141_1-142	1-141	1-142	8	317	Michigan	12.4	3		X	
1-141_1-142	1-141	1-142	8	317	Michigan	51.7	10	X		
1-141_1-142	1-141	1-142	8	317	Michigan	78.9	3		X	
1-141_1-142	1-141	1-142	8	317	Michigan	126.3	3		X	
1-141_1-142	1-141	1-142	8	317	Michigan	172.7	10	X		
1-141_1-142	1-141	1-142	8	317	Michigan	175.7	2	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
1-141_1-142	1-141	1-142	8	317	Michigan	220	10	X		
1-141_1-142	1-141	1-142	8	317	Michigan	223	2	X		
1-142_1-143	1-142	1-143	8	321	Wisconsin	11.7	9	X		
1-142_1-143	1-142	1-143	8	321	Wisconsin	14.4	3	X		
1-142_1-143	1-142	1-143	8	321	Wisconsin	48.2	<Null>			X
1-142_1-143	1-142	1-143	8	321	Wisconsin	58.8	9	X		
1-142_1-143	1-142	1-143	8	321	Wisconsin	61.8	3	X		
1-142_1-143	1-142	1-143	8	321	Wisconsin	106.2	9	X		
1-142_1-143	1-142	1-143	8	321	Wisconsin	109.1	3	X		
1-142_1-143	1-142	1-143	8	321	Wisconsin	156.3	9	X		
1-142_1-143	1-142	1-143	8	321	Wisconsin	159.3	3	X		
1-142_1-143	1-142	1-143	8	321	Wisconsin	206.2	9	X		
1-142_1-143	1-142	1-143	8	321	Wisconsin	322.2	9	X		
1-142_1-143	1-142	1-143	8	321	Wisconsin	325.1	3	X		
1-144_1-145	1-144	1-145	8	301	Wisconsin	27.9	9			X
1-144_1-145	1-144	1-145	8	301	Wisconsin	31.2	2			X
1-144_1-145	1-144	1-145	8	301	Wisconsin	79	3			X
1-144_1-145	1-144	1-145	8	301	Wisconsin	81.8	9			X
1-144_1-145	1-144	1-145	8	301	Wisconsin	130.6	9	X		
1-144_1-145	1-144	1-145	8	301	Wisconsin	133.4	3	X		
1-144_1-145	1-144	1-145	8	301	Wisconsin	180.7	9	X		
1-144_1-145	1-144	1-145	8	301	Wisconsin	184.9	3	X		
1-144_1-145	1-144	1-145	8	301	Wisconsin	284.3	10	X		
1-144_1-145	1-144	1-145	8	301	Wisconsin	287.6	3	X		
1-145_1-146	1-145	1-146	8	334	Wisconsin	38.2	10	X		
1-145_1-146	1-145	1-146	8	334	Wisconsin	41.4	3	X		
1-145_1-146	1-145	1-146	8	334	Wisconsin	88.7	9	X		
1-145_1-146	1-145	1-146	8	334	Wisconsin	91.5	3	X		
1-145_1-146	1-145	1-146	8	334	Wisconsin	142.4	9	X		
1-145_1-146	1-145	1-146	8	334	Wisconsin	145.4	3	X		
1-145_1-146	1-145	1-146	8	334	Wisconsin	189.6	9	X		
1-145_1-146	1-145	1-146	8	334	Wisconsin	192.5	3	X		
1-145_1-146	1-145	1-146	8	334	Wisconsin	223.1	11			X
1-145_1-146	1-145	1-146	8	334	Wisconsin	243	9	X		
1-145_1-146	1-145	1-146	8	334	Wisconsin	246.2	3	X		
1-145_1-146	1-145	1-146	8	334	Wisconsin	293.2	9	X		
1-145_1-146	1-145	1-146	8	334	Wisconsin	296.4	3	X		
1-146_1-147	1-146	1-147	8	299	Wisconsin	16.6	10	X		
1-146_1-147	1-146	1-147	8	299	Wisconsin	19.5	3	X		
1-146_1-147	1-146	1-147	8	299	Wisconsin	63.7	9	X		
1-146_1-147	1-146	1-147	8	299	Wisconsin	66.7	3	X		
1-146_1-147	1-146	1-147	8	299	Wisconsin	175.6	9	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
1-146_1-147	1-146	1-147	8	299	Wisconsin	225.4	9	X		
1-147_1-212	1-147	1-212	10	329	Michigan	28	10		X	
1-147_1-212	1-147	1-212	10	329	Michigan	48.4	9	X		
1-147_1-212	1-147	1-212	10	329	Michigan	99.5	3	X		
1-147_1-212	1-147	1-212	10	329	Michigan	103.3	3			X
1-147_1-212	1-147	1-212	10	329	Michigan	108.4	9	X		
1-147_1-212	1-147	1-212	10	329	Michigan	162.3	9	X		
1-147_1-212	1-147	1-212	10	329	Michigan	216	9	X		
1-147_1-212	1-147	1-212	10	329	Michigan	219	3	X		
1-147_1-212	1-147	1-212	10	329	Michigan	251.6	9		X	
1-147_1-212	1-147	1-212	10	329	Michigan	260.9	9	X		
1-148_1-147	1-148	1-147	10	350	BHD-Ridge	46.4	9		X	
1-148_1-147	1-148	1-147	10	350	BHD-Ridge	57.1	10		X	
1-148_1-147	1-148	1-147	10	350	BHD-Ridge	105	10		X	
1-148_1-147	1-148	1-147	10	350	BHD-Ridge	108.6	3	X		
1-148_1-147	1-148	1-147	10	350	BHD-Ridge	118.3	9	X		
1-148_1-147	1-148	1-147	10	350	BHD-Ridge	169.1	9	X		
1-148_1-147	1-148	1-147	10	350	BHD-Ridge	203.9	3		X	
1-148_1-147	1-148	1-147	10	350	BHD-Ridge	217.2	9	X		
1-148_1-147	1-148	1-147	10	350	BHD-Ridge	232.2	3	X		
1-148_1-147	1-148	1-147	10	350	BHD-Ridge	271.2	9	X		
1-149_1-148	1-149	1-148	8	314	Iowa	78.6	10	X		
1-149_1-148	1-149	1-148	8	314	Iowa	81.4	2	X		
1-149_1-148	1-149	1-148	8	314	Iowa	137.8	10	X		
1-149_1-148	1-149	1-148	8	314	Iowa	146.6	2	X		
1-149_1-148	1-149	1-148	8	314	Iowa	194.2	10	X		
1-150_1-149	1-150	1-149	8	362	Iowa	21.6	10	X		
1-150_1-149	1-150	1-149	8	362	Iowa	24.5	2	X		
1-150_1-149	1-150	1-149	8	362	Iowa	42.2	12			X
1-150_1-149	1-150	1-149	8	362	Iowa	69.1	10	X		
1-150_1-149	1-150	1-149	8	362	Iowa	72.2	2	X		
1-150_1-149	1-150	1-149	8	362	Iowa	116.8	10	X		
1-150_1-149	1-150	1-149	8	362	Iowa	119.7	2	X		
1-150_1-149	1-150	1-149	8	362	Iowa	170.5	10	X		
1-150_1-149	1-150	1-149	8	362	Iowa	173.3	2	X		
1-150_1-149	1-150	1-149	8	362	Iowa	220.9	9	X		
1-150_1-149	1-150	1-149	8	362	Iowa	223.9	2	X		
1-150_1-149	1-150	1-149	8	362	Iowa	292	9	X		
1-150_1-149	1-150	1-149	8	362	Iowa	294.9	2	X		
1-150_1-149	1-150	1-149	8	362	Iowa	324.5	2	X		
1-151_1-150	1-151	1-150	8	350	Iowa	9.8	10			X
1-151_1-150	1-151	1-150	8	350	Iowa	22.7	10	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
1-151_1-150	1-151	1-150	8	350	Iowa	25	2	X		
1-151_1-150	1-151	1-150	8	350	Iowa	69.6	10	X		
1-151_1-150	1-151	1-150	8	350	Iowa	73.4	2	X		
1-151_1-150	1-151	1-150	8	350	Iowa	120.7	10	X		
1-151_1-150	1-151	1-150	8	350	Iowa	123.5	2	X		
1-151_1-150	1-151	1-150	8	350	Iowa	171.1	10	X		
1-151_1-150	1-151	1-150	8	350	Iowa	173.1	2	X		
1-151_1-150	1-151	1-150	8	350	Iowa	259.5	9	X		
1-151_1-150	1-151	1-150	8	350	Iowa	262.6	3	X		
1-151_1-150	1-151	1-150	8	350	Iowa	313.5	9	X		
1-151_1-150	1-151	1-150	8	350	Iowa	315.6	3	X		
1-155_1-148	1-155	1-148	8	172	BHD-Ridge	39.4	10		X	
1-155_1-148	1-155	1-148	8	172	BHD-Ridge	45	9		X	
1-155_1-148	1-155	1-148	8	172	BHD-Ridge	72.5	10		X	
1-155_1-148	1-155	1-148	8	172	BHD-Ridge	90	2	X		
1-158_1-082	1-158	1-082	8	293	Ardmore	8.4	9	X		
1-158_1-082	1-158	1-082	8	293	Ardmore	58.9	9	X		
1-158_1-082	1-158	1-082	8	293	Ardmore	106.9	9	X		
1-158_1-082	1-158	1-082	8	293	Ardmore	157.5	9	X		
1-158_1-082	1-158	1-082	8	293	Ardmore	220.5	9	X		
1-158_1-082	1-158	1-082	8	293	Ardmore	244.5	9	X		
1-209_1-092	1-209	1-092	10	302	Princeton	24.6	2	X		
1-209_1-092	1-209	1-092	10	302	Princeton	63.2	10		X	
1-209_1-092	1-209	1-092	10	302	Princeton	66.7	2	X		
1-209_1-092	1-209	1-092	10	302	Princeton	117.6	2	X		
1-209_1-092	1-209	1-092	10	302	Princeton	148.2	2	X		
1-209_1-092	1-209	1-092	10	302	Princeton	149.9	10	X		
1-209_1-092	1-209	1-092	10	302	Princeton	196	2	X		
1-209_1-092	1-209	1-092	10	302	Princeton	198.7	10	X		
1-209_1-092	1-209	1-092	10	302	Princeton	249.9	2	X		
1-209_1-092	1-209	1-092	10	302	Princeton	253	10	X		
1-209_1-092	1-209	1-092	10	302	Princeton	285.9	2	X		
1-209_1-092	1-209	1-092	10	302	Princeton	288.9	10	X		
1-217_1-106	1-217	1-106	8	122	Harvard	66.3	9	X		
1-217_1-106	1-217	1-106	8	122	Harvard	70.3	3	X		
1-217_1-106	1-217	1-106	8	122	Harvard	107.6	9	X		
1-217_1-106	1-217	1-106	8	122	Harvard	111.6	3	X		
1-218_1-302	1-218	1-302	10	251	Yale	10.1	3	X		
1-218_1-302	1-218	1-302	10	251	Yale	13.8	11		X	
1-218_1-302	1-218	1-302	10	251	Yale	39.5	11		X	
1-218_1-302	1-218	1-302	10	251	Yale	58.1	2	X		
1-218_1-302	1-218	1-302	10	251	Yale	81.4	11		X	

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
1-218_1-302	1-218	1-302	10	251	Yale	102.7	10	X		
1-218_1-302	1-218	1-302	10	251	Yale	109.3	2	X		
1-218_1-302	1-218	1-302	10	251	Yale	112.2	2		X	
1-218_1-302	1-218	1-302	10	251	Yale	155	2	X		
1-218_1-302	1-218	1-302	10	251	Yale	157.9	10	X		
1-218_1-302	1-218	1-302	10	251	Yale	175.6	2	X		
1-218_1-302	1-218	1-302	10	251	Yale	187.2	1		X	
1-218_1-302	1-218	1-302	10	251	Yale	206	10		X	
1-301_1-218	1-301	1-218	10	253	Yale	60.6	10	X		
1-301_1-218	1-301	1-218	10	253	Yale	63.5	2	X		
1-301_1-218	1-301	1-218	10	253	Yale	77.8	10		X	
1-301_1-218	1-301	1-218	10	253	Yale	111.6	2	X		
1-301_1-218	1-301	1-218	10	253	Yale	151.1	10		X	
1-301_1-218	1-301	1-218	10	253	Yale	162.4	2	X		
1-301_1-218	1-301	1-218	10	253	Yale	174.9	10		X	
1-301_1-218	1-301	1-218	10	253	Yale	210.4	2	X		
1-302_1-303	1-302	1-303	10	309	Yale	60	2		X	
1-302_1-303	1-302	1-303	10	309	Yale	63.4	2	X		
1-302_1-303	1-302	1-303	10	309	Yale	69.6	10	X		
1-302_1-303	1-302	1-303	10	309	Yale	72.1	11		X	
1-302_1-303	1-302	1-303	10	309	Yale	94.3	2		X	
1-302_1-303	1-302	1-303	10	309	Yale	106	2	X		
1-302_1-303	1-302	1-303	10	309	Yale	111.8	9	X		
1-302_1-303	1-302	1-303	10	309	Yale	112.6	10		X	
1-302_1-303	1-302	1-303	10	309	Yale	139.2	2	X		
1-302_1-303	1-302	1-303	10	309	Yale	164.3	12		X	
1-302_1-303	1-302	1-303	10	309	Yale	172.2	9	X		
1-302_1-303	1-302	1-303	10	309	Yale	187.5	12		X	
1-302_1-303	1-302	1-303	10	309	Yale	190.3	11	X		
1-302_1-303	1-302	1-303	10	309	Yale	211.6	2	X		
1-302_1-303	1-302	1-303	10	309	Yale	244.4	1		X	
1-302_1-303	1-302	1-303	10	309	Yale	256.7	10	X		
1-302_1-303	1-302	1-303	10	309	Yale	262.8	2	X		
1-302_1-303	1-302	1-303	10	309	Yale	264.2	11		X	
1-302_1-303	1-302	1-303	10	309	Yale	290.3	10	X		
1-303_1-304	1-303	1-304	10	320	Yale	8	3	X		
1-303_1-304	1-303	1-304	10	320	Yale	44.4	11		X	
1-303_1-304	1-303	1-304	10	320	Yale	47.4	10	X		
1-303_1-304	1-303	1-304	10	320	Yale	107.8	11		X	
1-303_1-304	1-303	1-304	10	320	Yale	111.4	10	X		
1-303_1-304	1-303	1-304	10	320	Yale	114.4	3	X		
1-303_1-304	1-303	1-304	10	320	Yale	132.4	10	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
1-303_1-304	1-303	1-304	10	320	Yale	163	2	X		
1-303_1-304	1-303	1-304	10	320	Yale	205.5	3	X		
1-303_1-304	1-303	1-304	10	320	Yale	211	1		X	
1-303_1-304	1-303	1-304	10	320	Yale	214.3	12		X	
1-303_1-304	1-303	1-304	10	320	Yale	217.5	10	X		
1-303_1-304	1-303	1-304	10	320	Yale	238.7	10	X		
1-303_1-304	1-303	1-304	10	320	Yale	244.6	3	X		
1-303_1-304	1-303	1-304	10	320	Yale	254.8	1		X	
1-304_1-305	1-304	1-305	10	355	Yale	74.5	2	X		
1-304_1-305	1-304	1-305	10	355	Yale	83.4	10	X		
1-304_1-305	1-304	1-305	10	355	Yale	89.1	12		X	
1-304_1-305	1-304	1-305	10	355	Yale	95.6	2	X		
1-304_1-305	1-304	1-305	10	355	Yale	110	11		X	
1-304_1-305	1-304	1-305	10	355	Yale	150	10	X		
1-304_1-305	1-304	1-305	10	355	Yale	163.2	10		X	
1-304_1-305	1-304	1-305	10	355	Yale	165.2	10	X		
1-304_1-305	1-304	1-305	10	355	Yale	167.9	2	X		
1-304_1-305	1-304	1-305	10	355	Yale	229.7	2		X	
1-304_1-305	1-304	1-305	10	355	Yale	234.4	3	X		
1-304_1-305	1-304	1-305	10	355	Yale	243.3	10	X		
1-304_1-305	1-304	1-305	10	355	Yale	261.3	10	X		
1-304_1-305	1-304	1-305	10	355	Yale	270.4	2	X		
1-304_1-305	1-304	1-305	10	355	Yale	318.4	10	X		
1-304_1-305	1-304	1-305	10	355	Yale	327.6	2	X		
1-305_1-307	1-305	1-307	10	288	Yale	12.6	11		X	
1-305_1-307	1-305	1-307	10	288	Yale	51.3	3	X		
1-305_1-307	1-305	1-307	10	288	Yale	63.2	11		X	
1-305_1-307	1-305	1-307	10	288	Yale	117.9	2		X	
3-007_3-006	3-007	3-006	8	310	Iowa/Ballfields	5	12		X	
3-007_3-006	3-007	3-006	8	310	Iowa/Ballfields	31.1	9	X		
3-007_3-006	3-007	3-006	8	310	Iowa/Ballfields	33.1	2	X		
3-007_3-006	3-007	3-006	8	310	Iowa/Ballfields	80.8	12			X
3-007_3-006	3-007	3-006	8	310	Iowa/Ballfields	114.4	12		X	
3-007_3-006	3-007	3-006	8	310	Iowa/Ballfields	116.6	9	X		
3-007_3-006	3-007	3-006	8	310	Iowa/Ballfields	162.5	9	X		
3-007_3-006	3-007	3-006	8	310	Iowa/Ballfields	179.5	3	X		
3-007_3-006	3-007	3-006	8	310	Iowa/Ballfields	242.9	12		X	
3-007_3-006	3-007	3-006	8	310	Iowa/Ballfields	256.9	2	X		
3-008_3-007	3-008	3-007	8	351	Iowa	12.4	3	X		
3-008_3-007	3-008	3-007	8	351	Iowa	15.3	9	X		
3-008_3-007	3-008	3-007	8	351	Iowa	57.4	2	X		
3-008_3-007	3-008	3-007	8	351	Iowa	59.4	10	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
3-008_3-007	3-008	3-007	8	351	Iowa	107.3	2	X		
3-008_3-007	3-008	3-007	8	351	Iowa	110.2	10	X		
3-008_3-007	3-008	3-007	8	351	Iowa	218	2	X		
3-008_3-007	3-008	3-007	8	351	Iowa	220.4	10	X		
3-008_3-007	3-008	3-007	8	351	Iowa	295	10	X		
3-008_3-007	3-008	3-007	8	351	Iowa	300.7	2	X		
3-008_3-007	3-008	3-007	8	351	Iowa	324.3	10	X		
3-009_3-008	3-009	3-008	8	393	Iowa	6.5	3	X		
3-009_3-008	3-009	3-008	8	393	Iowa	9.8	9	X		
3-009_3-008	3-009	3-008	8	393	Iowa	48.7	3	X		
3-009_3-008	3-009	3-008	8	393	Iowa	51.2	9	X		
3-009_3-008	3-009	3-008	8	393	Iowa	98.9	2	X		
3-009_3-008	3-009	3-008	8	393	Iowa	101.6	10	X		
3-009_3-008	3-009	3-008	8	393	Iowa	146	2		X	
3-009_3-008	3-009	3-008	8	393	Iowa	149.4	10	X		
3-009_3-008	3-009	3-008	8	393	Iowa	194.4	2	X		
3-009_3-008	3-009	3-008	8	393	Iowa	197.1	9	X		
3-009_3-008	3-009	3-008	8	393	Iowa	247.8	3	X		
3-009_3-008	3-009	3-008	8	393	Iowa	250.6	9	X		
3-009_3-008	3-009	3-008	8	393	Iowa	295.9	2	X		
3-009_3-008	3-009	3-008	8	393	Iowa	298.7	9	X		
3-009_3-008	3-009	3-008	8	393	Iowa	324.8	10	X		
3-009_3-008	3-009	3-008	8	393	Iowa	348.7	3	X		
3-024_3-023	3-024	3-023	10	507.399994	434 ADDISON AVE	28.4	3	X		
3-024_3-023	3-024	3-023	10	507.399994	434 ADDISON AVE	175.399994	3	X		
3-024_3-023	3-024	3-023	10	507.399994	434 ADDISON AVE	214.600006	1		X	
3-024_3-023	3-024	3-023	10	507.399994	434 ADDISON AVE	268.299988	2	X		
3-024_3-023	3-024	3-023	10	507.399994	434 ADDISON AVE	325.200012	2	X		
3-024_3-023	3-024	3-023	10	507.399994	434 ADDISON AVE	385.399994	12	X		
3-024_3-023	3-024	3-023	10	507.399994	434 ADDISON AVE	460.299988	3	X		
3-030_3-029	3-030	3-029	10	313.899994	401 THIRD AVE	70.900002	10	X		
3-030_3-029	3-030	3-029	10	313.899994	401 THIRD AVE	74.5	2	X		
3-030_3-029	3-030	3-029	10	313.899994	401 THIRD AVE	136.699997	10	X		
3-030_3-029	3-030	3-029	10	313.899994	401 THIRD AVE	139.800003	2	X		
3-030_3-029	3-030	3-029	10	313.899994	401 THIRD AVE	190.199997	10	X		
3-030_3-029	3-030	3-029	10	313.899994	401 THIRD AVE	193.5	2	X		
3-030_3-029	3-030	3-029	10	313.899994	401 THIRD AVE	265.399994	10	X		
3-030_3-029	3-030	3-029	10	313.899994	401 THIRD AVE	268.200012	2	X		
3-035_3-034	3-035	3-034	10	327.200012	610 THIRD AVE	20	10	X		
3-035_3-034	3-035	3-034	10	327.200012	610 THIRD AVE	53.099998	2		X	
3-035_3-034	3-035	3-034	10	327.200012	610 THIRD AVE	65.199997	10	X		
3-035_3-034	3-035	3-034	10	327.200012	610 THIRD AVE	124.300003	10	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
3-035_3-034	3-035	3-034	10	327.200012	610 THIRD AVE	134	2		X	
3-035_3-034	3-035	3-034	10	327.200012	610 THIRD AVE	181	10	X		
3-035_3-034	3-035	3-034	10	327.200012	610 THIRD AVE	184	2	X		
3-035_3-034	3-035	3-034	10	327.200012	610 THIRD AVE	240.899994	10	X		
3-035_3-034	3-035	3-034	10	327.200012	610 THIRD AVE	243.800003	2	X		
3-035_3-034	3-035	3-034	10	327.200012	610 THIRD AVE	303.100006	10	X		
3-035_3-034	3-035	3-034	10	327.200012	610 THIRD AVE	306.299988	2	X		
3-040_3-039	3-040	3-039	10	335.700012	3RD AVE IFO 738	39.400002	3	X		
3-040_3-039	3-040	3-039	10	335.700012	3RD AVE IFO 738	96.199997	9	X		
3-040_3-039	3-040	3-039	10	335.700012	3RD AVE IFO 738	99.400002	3	X		
3-040_3-039	3-040	3-039	10	335.700012	3RD AVE IFO 738	165.5	3	X		
3-040_3-039	3-040	3-039	10	335.700012	3RD AVE IFO 738	168.100006	9		X	
3-040_3-039	3-040	3-039	10	335.700012	3RD AVE IFO 738	225.199997	9		X	
3-040_3-039	3-040	3-039	10	335.700012	3RD AVE IFO 738	231.199997	2		X	
3-040_3-039	3-040	3-039	10	335.700012	3RD AVE IFO 738	265.799988	9			X
3-040_3-039	3-040	3-039	10	335.700012	3RD AVE IFO 738	282.899994	9		X	
3-040_3-039	3-040	3-039	10	335.700012	3RD AVE IFO 738	295.200012	2		X	
3-043_3-044	3-043	3-044	10	412.899994	714 SECOND	56.400002	9			X
3-043_3-044	3-043	3-044	10	412.899994	714 SECOND	59.599998	3			X
3-043_3-044	3-043	3-044	10	412.899994	714 SECOND	115.199997	10	X		
3-043_3-044	3-043	3-044	10	412.899994	714 SECOND	118.099998	3	X		
3-043_3-044	3-043	3-044	10	412.899994	714 SECOND	178.5	10	X		
3-043_3-044	3-043	3-044	10	412.899994	714 SECOND	181.699997	2	X		
3-043_3-044	3-043	3-044	10	412.899994	714 SECOND	233.100006	10		X	
3-043_3-044	3-043	3-044	10	412.899994	714 SECOND	242.100006	2	X		
3-043_3-044	3-043	3-044	10	412.899994	714 SECOND	298.799988	10	X		
3-043_3-044	3-043	3-044	10	412.899994	714 SECOND	301.5	3	X		
3-043_3-044	3-043	3-044	10	412.899994	714 SECOND	361.399994	10	X		
3-043_3-044	3-043	3-044	10	412.899994	714 SECOND	364.399994	2	X		
3-044_3-045	3-044	3-045	10	329.100006	634 SECOND AVE	14.4	3	X		
3-044_3-045	3-044	3-045	10	329.100006	634 SECOND AVE	74.199997	2			X
3-044_3-045	3-044	3-045	10	329.100006	634 SECOND AVE	124.5	2		X	
3-044_3-045	3-044	3-045	10	329.100006	634 SECOND AVE	131.300003	10	X		
3-044_3-045	3-044	3-045	10	329.100006	634 SECOND AVE	256.200012	10	X		
3-044_3-045	3-044	3-045	10	329.100006	634 SECOND AVE	259.299988	2	X		
3-044_3-045	3-044	3-045	10	329.100006	634 SECOND AVE	294.899994	10		X	
3-044_3-045	3-044	3-045	10	329.100006	634 SECOND AVE	319.299988	2	X		
3-045_3-046	3-045	3-046	10	325.299988	SECOND/SUNSET	49.099998	2	X		
3-045_3-046	3-045	3-046	10	325.299988	SECOND/SUNSET	63.5	10		X	
3-045_3-046	3-045	3-046	10	325.299988	SECOND/SUNSET	114.900002	2		X	
3-045_3-046	3-045	3-046	10	325.299988	SECOND/SUNSET	120.599998	10	X		
3-045_3-046	3-045	3-046	10	325.299988	SECOND/SUNSET	167.399994	10			X

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
3-045_3-046	3-045	3-046	10	325.299988	SECOND/SUNSET	169.899994	2			X
3-045_3-046	3-045	3-046	10	325.299988	SECOND/SUNSET	225	9		X	
3-045_3-046	3-045	3-046	10	325.299988	SECOND/SUNSET	233.699997	2	X		
3-045_3-046	3-045	3-046	10	325.299988	SECOND/SUNSET	279.399994	10		X	
3-050_3-051	3-050	3-051	10	320	2NDST IFO 367	64.300003	2		X	
3-050_3-051	3-050	3-051	10	320	2NDST IFO 369	78.900002	9	X		
3-050_3-051	3-050	3-051	10	320	2NDST IFO 371	144.100006	10	X		
3-050_3-051	3-050	3-051	10	320	2NDST IFO 373	153	2			X
3-050_3-051	3-050	3-051	10	320	2NDST IFO 368	158.699997	2		X	
3-050_3-051	3-050	3-051	10	320	2NDST IFO 374	158.899994	1		X	
3-050_3-051	3-050	3-051	10	320	2NDST IFO 376	212.899994	9	X		
3-050_3-051	3-050	3-051	10	320	2NDST IFO 378	281.5	9	X		
3-050_3-051	3-050	3-051	10	320	2NDST IFO 380	294.700012	3		X	
3-055_3-054	3-055	3-054	10	348.5	N.BEIRMANN	28.299999	10	X		
3-055_3-054	3-055	3-054	10	348.5	N.BEIRMANN	37	2	X		
3-055_3-054	3-055	3-054	10	348.5	N.BEIRMANN	84.300003	10		X	
3-055_3-054	3-055	3-054	10	348.5	N.BEIRMANN	96.300003	2	X		
3-055_3-054	3-055	3-054	10	348.5	N.BEIRMANN	149.600006	10	X		
3-055_3-054	3-055	3-054	10	348.5	N.BEIRMANN	204.399994	10			X
3-055_3-054	3-055	3-054	10	348.5	N.BEIRMANN	209.199997	10	X		
3-055_3-054	3-055	3-054	10	348.5	N.BEIRMANN	215.300003	2	X		
3-055_3-054	3-055	3-054	10	348.5	N.BEIRMANN	262.5	11		X	
3-055_3-054	3-055	3-054	10	348.5	N.BEIRMANN	271.5	2	X		
3-055_3-054	3-055	3-054	10	348.5	N.BEIRMANN	315.5	2		X	
3-056_3-055	3-056	3-055	10	357.899994	N.BEIRMANN	29.200001	10	X		
3-056_3-055	3-056	3-055	10	357.899994	N.BEIRMANN	34.599998	3	X		
3-056_3-055	3-056	3-055	10	357.899994	N.BEIRMANN	88.300003	10	X		
3-056_3-055	3-056	3-055	10	357.899994	N.BEIRMANN	97.300003	3	X		
3-056_3-055	3-056	3-055	10	357.899994	N.BEIRMANN	147.899994	10	X		
3-056_3-055	3-056	3-055	10	357.899994	N.BEIRMANN	153.699997	3	X		
3-056_3-055	3-056	3-055	10	357.899994	N.BEIRMANN	207.300003	10	X		
3-056_3-055	3-056	3-055	10	357.899994	N.BEIRMANN	216.100006	3	X		
3-056_3-055	3-056	3-055	10	357.899994	N.BEIRMANN	263	10			X
3-056_3-055	3-056	3-055	10	357.899994	N.BEIRMANN	275.600006	2	X		
3-056_3-055	3-056	3-055	10	357.899994	N.BEIRMANN	326.299988	10		X	
3-056_3-055	3-056	3-055	10	357.899994	N.BEIRMANN	335.5	2	X		
3-060_3-059	3-060	3-059	10	385.600006	530 BEIRMANN	43.200001	10	X		
3-060_3-059	3-060	3-059	10	385.600006	530 BEIRMANN	52.099998	10		X	
3-060_3-059	3-060	3-059	10	385.600006	530 BEIRMANN	103.699997	10	X		
3-060_3-059	3-060	3-059	10	385.600006	530 BEIRMANN	106.699997	3	X		
3-060_3-059	3-060	3-059	10	385.600006	530 BEIRMANN	167.5	10	X		
3-060_3-059	3-060	3-059	10	385.600006	530 BEIRMANN	169.800003	3	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
3-060_3-059	3-060	3-059	10	385.600006	530 BEIRMANN	227.5	10	X		
3-060_3-059	3-060	3-059	10	385.600006	530 BEIRMANN	230.600006	3	X		
3-060_3-059	3-060	3-059	10	385.600006	530 BEIRMANN	288.200012	10	X		
3-060_3-059	3-060	3-059	10	385.600006	530 BEIRMANN	291.299988	3	X		
3-060_3-059	3-060	3-059	10	385.600006	530 BEIRMANN	358	10	X		
3-060_3-059	3-060	3-059	10	385.600006	530 BEIRMANN	360.600006	3	X		
3-061_3-060	3-061	3-060	10	381.399994	N.BEIRMANN@SNS	38.5	3	X		
3-061_3-060	3-061	3-060	10	381.399994	N.BEIRMANN@SNS	47.700001	10		X	
3-061_3-060	3-061	3-060	10	381.399994	N.BEIRMANN@SNS	63.400002	3		X	
3-061_3-060	3-061	3-060	10	381.399994	N.BEIRMANN@SNS	120	3		X	
3-061_3-060	3-061	3-060	10	381.399994	N.BEIRMANN@SNS	124.400002	10		X	
3-061_3-060	3-061	3-060	10	381.399994	N.BEIRMANN@SNS	184.399994	9			X
3-061_3-060	3-061	3-060	10	381.399994	N.BEIRMANN@SNS	191.399994	3			X
3-061_3-060	3-061	3-060	10	381.399994	N.BEIRMANN@SNS	244.100006	3	X		
3-061_3-060	3-061	3-060	10	381.399994	N.BEIRMANN@SNS	247.199997	9	X		
3-061_3-060	3-061	3-060	10	381.399994	N.BEIRMANN@SNS	290.100006	10		X	
3-061_3-060	3-061	3-060	10	381.399994	N.BEIRMANN@SNS	306.399994	9		X	
3-064_3-065	3-064	3-065	10	202	WESTMORE AVE.	21.299999	9	X		
3-064_3-065	3-064	3-065	10	202	WESTMORE AVE.	78.5	9	X		
3-064_3-065	3-064	3-065	10	202	WESTMORE AVE.	141.100006	10	X		
3-064_3-065	3-064	3-065	10	202	WESTMORE AVE.	189.300003	10	X		
3-065_3-066	3-065	3-066	10	179.899994	WESTMORE AVE.	52.400002	9	X		
3-065_3-066	3-065	3-066	10	179.899994	WESTMORE AVE.	61.400002	3		X	
3-065_3-066	3-065	3-066	10	179.899994	WESTMORE AVE.	115.599998	9	X		
3-065_3-066	3-065	3-066	10	179.899994	WESTMORE AVE.	172.199997	10		X	
3-066_3-067	3-066	3-067	10	166.399994	WESTMORE AVE.	53	9	X		
3-066_3-067	3-066	3-067	10	166.399994	WESTMORE AVE.	109.099998	9		X	
3-067_3-068	3-067	3-068	10	194.399994	WESTMORE AVE.	77.599998	9	X		
3-067_3-068	3-067	3-068	10	194.399994	WESTMORE AVE.	137.300003	9	X		
3-067_3-068	3-067	3-068	10	194.399994	WESTMORE AVE.	191.399994	9		X	
3-068_3-139	3-068	3-139	10	54.200001	WESTMORE AVE.	47.700001	9		X	
3-077_3-075	3-077	3-075	10	200	Terrace	11.2	1		X	
3-077_3-075	3-077	3-075	10	200	Terrace	14.1	10		X	
3-077_3-075	3-077	3-075	10	200	Terrace	58.5	3	X		
3-077_3-075	3-077	3-075	10	200	Terrace	61.6	9	X		
3-077_3-075	3-077	3-075	10	200	Terrace	127.7	3	X		
3-077_3-075	3-077	3-075	10	200	Terrace	130.7	9	X		
3-078_3-077	3-078	3-077	10	297	Terrace	35.8	9		X	
3-078_3-077	3-078	3-077	10	297	Terrace	39.5	3	X		
3-078_3-077	3-078	3-077	10	297	Terrace	64.1	9	X		
3-078_3-077	3-078	3-077	10	297	Terrace	87.4	9		X	
3-078_3-077	3-078	3-077	10	297	Terrace	99.8	3	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
3-078_3-077	3-078	3-077	10	297	Terrace	121	9	X		
3-078_3-077	3-078	3-077	10	297	Terrace	158	2		X	
3-078_3-077	3-078	3-077	10	297	Terrace	160	10		X	
3-078_3-077	3-078	3-077	10	297	Terrace	217.4	3	X		
3-078_3-077	3-078	3-077	10	297	Terrace	218.1	10		X	
3-078_3-077	3-078	3-077	10	297	Terrace	229.7	9	X		
3-078_3-077	3-078	3-077	10	297	Terrace	268.7	3	X		
3-078_3-077	3-078	3-077	10	297	Terrace	271.9	9	X		
3-079_3-078	3-079	3-078	10	310	Terrace	34.7	3	X		
3-079_3-078	3-079	3-078	10	310	Terrace	37.9	9	X		
3-079_3-078	3-079	3-078	10	310	Terrace	100.5	3		X	
3-079_3-078	3-079	3-078	10	310	Terrace	101.9	9		X	
3-079_3-078	3-079	3-078	10	310	Terrace	107.4	3	X		
3-079_3-078	3-079	3-078	10	310	Terrace	164.5	3	X		
3-079_3-078	3-079	3-078	10	310	Terrace	165.3	9		X	
3-079_3-078	3-079	3-078	10	310	Terrace	233	3		X	
3-079_3-078	3-079	3-078	10	310	Terrace	233.8	9	X		
3-079_3-078	3-079	3-078	10	310	Terrace	267.8	3			X
3-079_3-078	3-079	3-078	10	310	Terrace	285.4	3	X		
3-079_3-078	3-079	3-078	10	310	Terrace	294.4	3		X	
3-079_3-078	3-079	3-078	10	310	Terrace	297.2	9	X		
3-080_3-079	3-080	3-079	8	348.899994	359 N.MISSION	42.400002	10		X	
3-080_3-079	3-080	3-079	8	348.899994	359 N.MISSION	44.799999	10		X	
3-080_3-079	3-080	3-079	8	348.899994	359 N.MISSION	47.400002	3	X		
3-080_3-079	3-080	3-079	8	348.899994	359 N.MISSION	118.699997	3	X		
3-080_3-079	3-080	3-079	8	348.899994	359 N.MISSION	136.199997	9	X		
3-080_3-079	3-080	3-079	8	348.899994	359 N.MISSION	177.800003	3	X		
3-080_3-079	3-080	3-079	8	348.899994	359 N.MISSION	239.399994	2		X	
3-080_3-079	3-080	3-079	8	348.899994	359 N.MISSION	290.899994	3	X		
3-080_3-079	3-080	3-079	8	348.899994	359 N.MISSION	341.299988	3	X		
3-081_3-080	3-081	3-080	8	295.299988	379 N.MISSION	7.3	3	X		
3-081_3-080	3-081	3-080	8	295.299988	379 N.MISSION	8	2		X	
3-081_3-080	3-081	3-080	8	295.299988	379 N.MISSION	10.6	9	X		
3-081_3-080	3-081	3-080	8	295.299988	379 N.MISSION	51.900002	3	X		
3-081_3-080	3-081	3-080	8	295.299988	379 N.MISSION	54.700001	9	X		
3-081_3-080	3-081	3-080	8	295.299988	379 N.MISSION	113.900002	3	X		
3-081_3-080	3-081	3-080	8	295.299988	379 N.MISSION	117.099998	9	X		
3-081_3-080	3-081	3-080	8	295.299988	379 N.MISSION	176.5	3	X		
3-081_3-080	3-081	3-080	8	295.299988	379 N.MISSION	179.399994	9	X		
3-081_3-080	3-081	3-080	8	295.299988	379 N.MISSION	232.600006	3	X		
3-081_3-080	3-081	3-080	8	295.299988	379 N.MISSION	235.800003	9	X		
3-081_3-080	3-081	3-080	8	295.299988	379 N.MISSION	286.200012	3	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
3-081_3-080	3-081	3-080	8	295.299988	379 N.MISSION	289.299988	9	X		
3-083_3-082	3-083	3-082	10	386.700012	731 W. TERRACE	11.8	3		X	
3-083_3-082	3-083	3-082	10	386.700012	731 W. TERRACE	72	3		X	
3-083_3-082	3-083	3-082	10	386.700012	731 W. TERRACE	74.099998	9		X	
3-083_3-082	3-083	3-082	10	386.700012	731 W. TERRACE	117.5	10		X	
3-083_3-082	3-083	3-082	10	386.700012	731 W. TERRACE	117.599998	3		X	
3-083_3-082	3-083	3-082	10	386.700012	731 W. TERRACE	158.600006	9	X		
3-083_3-082	3-083	3-082	10	386.700012	731 W. TERRACE	161.5	3	X		
3-083_3-082	3-083	3-082	10	386.700012	731 W. TERRACE	228.800003	9	X		
3-083_3-082	3-083	3-082	10	386.700012	731 W. TERRACE	232	3	X		
3-083_3-082	3-083	3-082	10	386.700012	731 W. TERRACE	295.899994	3	X		
3-083_3-082	3-083	3-082	10	386.700012	731 W. TERRACE	333.600006	3	X		
3-083_3-082	3-083	3-082	10	386.700012	731 W. TERRACE	378.5	3		X	
3-085_3-084	3-085	3-084	8	375.5	356 N.LINCOLN	52.700001	3		X	
3-085_3-084	3-085	3-084	8	375.5	356 N.LINCOLN	56.099998	9	X		
3-085_3-084	3-085	3-084	8	375.5	356 N.LINCOLN	118.599998	3	X		
3-085_3-084	3-085	3-084	8	375.5	356 N.LINCOLN	121.400002	9	X		
3-085_3-084	3-085	3-084	8	375.5	356 N.LINCOLN	166.300003	3	X		
3-085_3-084	3-085	3-084	8	375.5	356 N.LINCOLN	169.399994	9	X		
3-085_3-084	3-085	3-084	8	375.5	356 N.LINCOLN	228.699997	3	X		
3-085_3-084	3-085	3-084	8	375.5	356 N.LINCOLN	231.300003	10			X
3-085_3-084	3-085	3-084	8	375.5	356 N.LINCOLN	282.100006	3	X		
3-085_3-084	3-085	3-084	8	375.5	356 N.LINCOLN	285.100006	9	X		
3-085_3-084	3-085	3-084	8	375.5	356 N.LINCOLN	341.700012	3	X		
3-085_3-084	3-085	3-084	8	375.5	356 N.LINCOLN	345	9	X		
3-086_3-085	3-086	3-085	8	356.5	380 N.LINCOLN	13.9	9		X	
3-086_3-085	3-086	3-085	8	356.5	380 N.LINCOLN	16.4	3	X		
3-086_3-085	3-086	3-085	8	356.5	380 N.LINCOLN	60.799999	3	X		
3-086_3-085	3-086	3-085	8	356.5	380 N.LINCOLN	63.799999	9	X		
3-086_3-085	3-086	3-085	8	356.5	380 N.LINCOLN	118.099998	3	X		
3-086_3-085	3-086	3-085	8	356.5	380 N.LINCOLN	121.400002	9	X		
3-086_3-085	3-086	3-085	8	356.5	380 N.LINCOLN	177.699997	3	X		
3-086_3-085	3-086	3-085	8	356.5	380 N.LINCOLN	180.800003	9	X		
3-086_3-085	3-086	3-085	8	356.5	380 N.LINCOLN	237.199997	3	X		
3-086_3-085	3-086	3-085	8	356.5	380 N.LINCOLN	240.399994	9	X		
3-086_3-085	3-086	3-085	8	356.5	380 N.LINCOLN	293.899994	3	X		
3-086_3-085	3-086	3-085	8	356.5	380 N.LINCOLN	296.5	9	X		
3-086_3-085	3-086	3-085	8	356.5	380 N.LINCOLN	344.100006	3	X		
3-086_3-085	3-086	3-085	8	356.5	380 N.LINCOLN	347.100006	9	X		
3-095_3-093	3-095	3-093	8	224.899994	645 W. VERMONT	18.5	2		X	
3-095_3-093	3-095	3-093	8	224.899994	645 W. VERMONT	69.400002	9		X	
3-095_3-093	3-095	3-093	8	224.899994	645 W. VERMONT	75.400002	3	X		

Village of Villa Park

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Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
3-095_3-093	3-095	3-093	8	224.899994	645 W. VERMONT	108.099998	3	X		
3-095_3-093	3-095	3-093	8	224.899994	645 W. VERMONT	122.400002	2			X
3-095_3-093	3-095	3-093	8	224.899994	645 W. VERMONT	190.899994	3	X		
3-096_3-095	3-096	3-095	8	321.5	725 W. VERMONT	36.5	3	X		
3-096_3-095	3-096	3-095	8	321.5	725 W. VERMONT	57.299999	9	X		
3-096_3-095	3-096	3-095	8	321.5	725 W. VERMONT	98.5	3	X		
3-096_3-095	3-096	3-095	8	321.5	725 W. VERMONT	119.400002	10	X		
3-096_3-095	3-096	3-095	8	321.5	725 W. VERMONT	152.5	3	X		
3-096_3-095	3-096	3-095	8	321.5	725 W. VERMONT	162.300003	9			X
3-096_3-095	3-096	3-095	8	321.5	725 W. VERMONT	170	3		X	
3-096_3-095	3-096	3-095	8	321.5	725 W. VERMONT	173.199997	9	X		
3-096_3-095	3-096	3-095	8	321.5	725 W. VERMONT	214.899994	3	X		
3-096_3-095	3-096	3-095	8	321.5	725 W. VERMONT	235.600006	9	X		
3-096_3-095	3-096	3-095	8	321.5	725 W. VERMONT	281.299988	2		X	
3-096_3-095	3-096	3-095	8	321.5	725 W. VERMONT	283.5	10		X	
3-096_3-095	3-096	3-095	8	321.5	725 W. VERMONT	313.299988	3	X		
3-097_3-096	3-097	3-096	8	305.799988	VERMONT	9.6	3	X		
3-097_3-096	3-097	3-096	8	305.799988	VERMONT	48.099998	3	X		
3-097_3-096	3-097	3-096	8	305.799988	VERMONT	107.599998	3	X		
3-097_3-096	3-097	3-096	8	305.799988	VERMONT	181.5	3	X		
3-097_3-096	3-097	3-096	8	305.799988	VERMONT	184.600006	9	X		
3-097_3-096	3-097	3-096	8	305.799988	VERMONT	230	3		X	
3-097_3-096	3-097	3-096	8	305.799988	VERMONT	235.100006	3			X
3-097_3-096	3-097	3-096	8	305.799988	VERMONT	238.100006	9	X		
3-097_3-096	3-097	3-096	8	305.799988	VERMONT	294.399994	2		X	
3-097_3-096	3-097	3-096	8	305.799988	VERMONT	297.600006	9	X		
3-098_3-099	3-098	3-099	8	176.800003	LINCON AVE	47.099998	9	X		
3-098_3-099	3-098	3-099	8	176.800003	LINCON AVE	103.5	9	X		
3-098_3-099	3-098	3-099	8	176.800003	LINCON AVE	165.800003	9	X		
3-099_3-100	3-099	3-100	8	318.700012	PLYMOUTH	91	3	X		
3-099_3-100	3-099	3-100	8	318.700012	PLYMOUTH	94.599998	9	X		
3-099_3-100	3-099	3-100	8	318.700012	PLYMOUTH	159.800003	3	X		
3-099_3-100	3-099	3-100	8	318.700012	PLYMOUTH	163.5	9	X		
3-099_3-100	3-099	3-100	8	318.700012	PLYMOUTH	219.5	3	X		
3-099_3-100	3-099	3-100	8	318.700012	PLYMOUTH	221.899994	9	X		
3-099_3-100	3-099	3-100	8	318.700012	PLYMOUTH	278.600006	3	X		
3-099_3-100	3-099	3-100	8	318.700012	PLYMOUTH	281.799988	9	X		
3-100_3-101	3-100	3-101	8	232.199997	PLYMOUTH	23	3	X		
3-100_3-101	3-100	3-101	8	232.199997	PLYMOUTH	26.299999	9	X		
3-100_3-101	3-100	3-101	8	232.199997	PLYMOUTH	74	3		X	
3-100_3-101	3-100	3-101	8	232.199997	PLYMOUTH	77.400002	9	X		
3-100_3-101	3-100	3-101	8	232.199997	PLYMOUTH	125.300003	3	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
3-100_3-101	3-100	3-101	8	232.199997	PLYMOUTH	131.100006	9		X	
3-100_3-101	3-100	3-101	8	232.199997	PLYMOUTH	173	3	X		
3-101_3-102	3-101	3-102	8	347.100006	PLYMOUTH	9.7	3	X		
3-101_3-102	3-101	3-102	8	347.100006	PLYMOUTH	12.7	9	X		
3-101_3-102	3-101	3-102	8	347.100006	PLYMOUTH	75.800003	9	X		
3-101_3-102	3-101	3-102	8	347.100006	PLYMOUTH	143.300003	9	X		
3-101_3-102	3-101	3-102	8	347.100006	PLYMOUTH	191.600006	3	X		
3-101_3-102	3-101	3-102	8	347.100006	PLYMOUTH	194.300003	9	X		
3-101_3-102	3-101	3-102	8	347.100006	PLYMOUTH	254.199997	3	X		
3-101_3-102	3-101	3-102	8	347.100006	PLYMOUTH	257.299988	9	X		
3-101_3-102	3-101	3-102	8	347.100006	PLYMOUTH	307.600006	3	X		
3-101_3-102	3-101	3-102	8	347.100006	PLYMOUTH	310.799988	9	X		
3-102_3-071	3-102	3-071	8	294.899994	622 W.PLYMOUTH	41.799999	3	X		
3-102_3-071	3-102	3-071	8	294.899994	622 W.PLYMOUTH	44.700001	9	X		
3-102_3-071	3-102	3-071	8	294.899994	622 W.PLYMOUTH	50.5	9			X
3-102_3-071	3-102	3-071	8	294.899994	622 W.PLYMOUTH	89.199997	3	X		
3-102_3-071	3-102	3-071	8	294.899994	622 W.PLYMOUTH	92.300003	9	X		
3-102_3-071	3-102	3-071	8	294.899994	622 W.PLYMOUTH	148.5	9	X		
3-102_3-071	3-102	3-071	8	294.899994	622 W.PLYMOUTH	171.899994	9		X	
3-102_3-071	3-102	3-071	8	294.899994	622 W.PLYMOUTH	219.600006	9		X	
3-102_3-071	3-102	3-071	8	294.899994	622 W.PLYMOUTH	234.600006	9	X		
3-102_3-071	3-102	3-071	8	294.899994	622 W.PLYMOUTH	237.399994	9	X		
3-103_3-099	3-103	3-099	8	279.700012	LINCON AVE	49.599998	9	X		
3-103_3-099	3-103	3-099	8	279.700012	LINCON AVE	52.5	3	X		
3-103_3-099	3-103	3-099	8	279.700012	LINCON AVE	90.699997	10		X	
3-103_3-099	3-103	3-099	8	279.700012	LINCON AVE	117.599998	3	X		
3-103_3-099	3-103	3-099	8	279.700012	LINCON AVE	177	3	X		
3-103_3-099	3-103	3-099	8	279.700012	LINCON AVE	242	3	X		
3-104_3-103	3-104	3-103	8	296.200012	LINCON AVE	48.799999	3	X		
3-104_3-103	3-104	3-103	8	296.200012	LINCON AVE	51.799999	9	X		
3-104_3-103	3-104	3-103	8	296.200012	LINCON AVE	108.099998	3	X		
3-104_3-103	3-104	3-103	8	296.200012	LINCON AVE	170.899994	3	X		
3-104_3-103	3-104	3-103	8	296.200012	LINCON AVE	201.199997	10		X	
3-104_3-103	3-104	3-103	8	296.200012	LINCON AVE	230.300003	3	X		
3-104_3-103	3-104	3-103	8	296.200012	LINCON AVE	242.899994	2			X
3-104_3-103	3-104	3-103	8	296.200012	LINCON AVE	280.799988	3	X		
3-105_3-106	3-105	3-106	8	329.799988	727 W.MERLE	44.799999	9	X		
3-105_3-106	3-105	3-106	8	329.799988	727 W.MERLE	47.700001	3	X		
3-105_3-106	3-105	3-106	8	329.799988	727 W.MERLE	101.300003	9	X		
3-105_3-106	3-105	3-106	8	329.799988	727 W.MERLE	104.199997	3	X		
3-105_3-106	3-105	3-106	8	329.799988	727 W.MERLE	107.099998	10		X	
3-105_3-106	3-105	3-106	8	329.799988	727 W.MERLE	160.600006	3	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
3-105_3-106	3-105	3-106	8	329.799988	727 W.MERLE	213.699997	9	X		
3-105_3-106	3-105	3-106	8	329.799988	727 W.MERLE	216.300003	3	X		
3-105_3-106	3-105	3-106	8	329.799988	727 W.MERLE	263.899994	9	X		
3-105_3-106	3-105	3-106	8	329.799988	727 W.MERLE	267.100006	3	X		
3-105_3-106	3-105	3-106	8	329.799988	727 W.MERLE	317	9	X		
3-105_3-106	3-105	3-106	8	329.799988	727 W.MERLE	320	3	X		
3-106_3-107	3-106	3-107	8	249.600006	701 W.MERLE	31.6	9	X		
3-106_3-107	3-106	3-107	8	249.600006	701 W.MERLE	34.700001	3	X		
3-106_3-107	3-106	3-107	8	249.600006	701 W.MERLE	90.800003	9	X		
3-106_3-107	3-106	3-107	8	249.600006	701 W.MERLE	94	3	X		
3-106_3-107	3-106	3-107	8	249.600006	701 W.MERLE	152.899994	9	X		
3-106_3-107	3-106	3-107	8	249.600006	701 W.MERLE	155.899994	3			X
3-106_3-107	3-106	3-107	8	249.600006	701 W.MERLE	212.100006	9	X		
3-106_3-107	3-106	3-107	8	249.600006	701 W.MERLE	215.199997	3	X		
3-107_3-108	3-107	3-108	8	309.5	627 W.MERLE	19.299999	9	X		
3-107_3-108	3-107	3-108	8	309.5	627 W.MERLE	22.4	3	X		
3-107_3-108	3-107	3-108	8	309.5	627 W.MERLE	75.199997	9	X		
3-107_3-108	3-107	3-108	8	309.5	627 W.MERLE	78.599998	3	X		
3-107_3-108	3-107	3-108	8	309.5	627 W.MERLE	137.5	9	X		
3-107_3-108	3-107	3-108	8	309.5	627 W.MERLE	140.5	3	X		
3-107_3-108	3-107	3-108	8	309.5	627 W.MERLE	205.399994	9	X		
3-107_3-108	3-107	3-108	8	309.5	627 W.MERLE	208.899994	3	X		
3-107_3-108	3-107	3-108	8	309.5	627 W.MERLE	262	9	X		
3-107_3-108	3-107	3-108	8	309.5	627 W.MERLE	264.600006	3		X	
3-108_3-070	3-108	3-070	8	138.699997	611 W.MERLE	9.7	9	X		
3-108_3-070	3-108	3-070	8	138.699997	611 W.MERLE	13	3	X		
3-108_3-070	3-108	3-070	8	138.699997	611 W.MERLE	72.800003	10		X	
3-108_3-070	3-108	3-070	8	138.699997	611 W.MERLE	75	3		X	
3-109_3-069	3-109	3-069	8	223.699997	SUNSET DR.	49.700001	9			X
3-109_3-069	3-109	3-069	8	223.699997	SUNSET DR.	82	9			X
3-109_3-069	3-109	3-069	8	223.699997	SUNSET DR.	84.199997	3			X
3-109_3-069	3-109	3-069	8	223.699997	SUNSET DR.	92.5	9			X
3-109_3-069	3-109	3-069	8	223.699997	SUNSET DR.	157.199997	2		X	
3-109_3-069	3-109	3-069	8	223.699997	SUNSET DR.	168.5	9		X	
3-110_3-109	3-110	3-109	8	328	SUNSET DR.	28.299999	9		X	
3-110_3-109	3-110	3-109	8	328	SUNSET DR.	35.799999	3		X	
3-110_3-109	3-110	3-109	8	328	SUNSET DR.	98.5	9		X	
3-110_3-109	3-110	3-109	8	328	SUNSET DR.	101.300003	3	X		
3-110_3-109	3-110	3-109	8	328	SUNSET DR.	154.399994	9	X		
3-110_3-109	3-110	3-109	8	328	SUNSET DR.	157.399994	3	X		
3-110_3-109	3-110	3-109	8	328	SUNSET DR.	222.399994	3	X		
3-110_3-109	3-110	3-109	8	328	SUNSET DR.	225.300003	9	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
3-110_3-109	3-110	3-109	8	328	SUNSET DR.	242.800003	2	X		
3-110_3-109	3-110	3-109	8	328	SUNSET DR.	257.299988	9		X	
3-110_3-109	3-110	3-109	8	328	SUNSET DR.	320.399994	10	X		
3-111_3-110	3-111	3-110	8	330.899994	SUNSET DR.	48.5	3			X
3-111_3-110	3-111	3-110	8	330.899994	SUNSET DR.	55.299999	9			X
3-111_3-110	3-111	3-110	8	330.899994	SUNSET DR.	80.800003	1	X		
3-111_3-110	3-111	3-110	8	330.899994	SUNSET DR.	128	9	X		
3-111_3-110	3-111	3-110	8	330.899994	SUNSET DR.	154.5	2			X
3-111_3-110	3-111	3-110	8	330.899994	SUNSET DR.	197.199997	9			X
3-111_3-110	3-111	3-110	8	330.899994	SUNSET DR.	201.600006	3	X		
3-111_3-110	3-111	3-110	8	330.899994	SUNSET DR.	251.899994	9	X		
3-111_3-110	3-111	3-110	8	330.899994	SUNSET DR.	262.600006	3	X		
3-111_3-110	3-111	3-110	8	330.899994	SUNSET DR.	304.899994	9	X		
3-111_3-110	3-111	3-110	8	330.899994	SUNSET DR.	316.299988	3		X	
3-112_3-111	3-112	3-111	8	160.199997	SUNSET DR.	39.599998	9			X
3-112_3-111	3-112	3-111	8	160.199997	SUNSET DR.	58.5	2			X
3-112_3-111	3-112	3-111	8	160.199997	SUNSET DR.	111.599998	3	X		
3-112_3-111	3-112	3-111	8	160.199997	SUNSET DR.	114.5	9	X		
3-112_3-111	3-112	3-111	8	160.199997	SUNSET DR.	144.300003	2		X	
3-113_3-114	3-113	3-114	8	226.600006	JAMES ST.	10.6	3	X		
3-113_3-114	3-113	3-114	8	226.600006	JAMES ST.	13.3	9	X		
3-113_3-114	3-113	3-114	8	226.600006	JAMES ST.	48.799999	3	X		
3-113_3-114	3-113	3-114	8	226.600006	JAMES ST.	52	9	X		
3-113_3-114	3-113	3-114	8	226.600006	JAMES ST.	107.900002	3	X		
3-113_3-114	3-113	3-114	8	226.600006	JAMES ST.	111	9	X		
3-113_3-114	3-113	3-114	8	226.600006	JAMES ST.	150	3	X		
3-113_3-114	3-113	3-114	8	226.600006	JAMES ST.	202.699997	3		X	
3-113_3-114	3-113	3-114	8	226.600006	JAMES ST.	205.300003	9	X		
3-114_3-115	3-114	3-115	8	275.600006	JAMES ST.	33.400002	2		X	
3-114_3-115	3-114	3-115	8	275.600006	JAMES ST.	74.099998	3	X		
3-114_3-115	3-114	3-115	8	275.600006	JAMES ST.	76.599998	10	X		
3-114_3-115	3-114	3-115	8	275.600006	JAMES ST.	132.699997	1		X	
3-114_3-115	3-114	3-115	8	275.600006	JAMES ST.	135.800003	9	X		
3-114_3-115	3-114	3-115	8	275.600006	JAMES ST.	189.300003	9	X		
3-114_3-115	3-114	3-115	8	275.600006	JAMES ST.	198.399994	3		X	
3-114_3-115	3-114	3-115	8	275.600006	JAMES ST.	239.399994	9		X	
3-114_3-115	3-114	3-115	8	275.600006	JAMES ST.	242.399994	2	X		
3-115_3-116	3-115	3-116	8	280.600006	JAMES ST.	33.400002	3	X		
3-115_3-116	3-115	3-116	8	280.600006	JAMES ST.	37.799999	3			X
3-115_3-116	3-115	3-116	8	280.600006	JAMES ST.	42.200001	9		X	
3-115_3-116	3-115	3-116	8	280.600006	JAMES ST.	62.799999	9	X		
3-115_3-116	3-115	3-116	8	280.600006	JAMES ST.	89.5	3	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
3-115_3-116	3-115	3-116	8	280.600006	JAMES ST.	101.599998	3		X	
3-115_3-116	3-115	3-116	8	280.600006	JAMES ST.	116	9		X	
3-115_3-116	3-115	3-116	8	280.600006	JAMES ST.	160.300003	3	X		
3-115_3-116	3-115	3-116	8	280.600006	JAMES ST.	192.699997	9	X		
3-115_3-116	3-115	3-116	8	280.600006	JAMES ST.	231	3	X		
3-115_3-116	3-115	3-116	8	280.600006	JAMES ST.	234.100006	9			X
3-116_3-068	3-116	3-068	8	251.600006	JAMES ST.	12.6	10	X		
3-116_3-068	3-116	3-068	8	251.600006	JAMES ST.	42.200001	2	X		
3-116_3-068	3-116	3-068	8	251.600006	JAMES ST.	57.5	10	X		
3-116_3-068	3-116	3-068	8	251.600006	JAMES ST.	101.599998	2	X		
3-116_3-068	3-116	3-068	8	251.600006	JAMES ST.	104.800003	10	X		
3-116_3-068	3-116	3-068	8	251.600006	JAMES ST.	181.5	3	X		
3-116_3-068	3-116	3-068	8	251.600006	JAMES ST.	184.5	10	X		
3-117_3-066	3-117	3-066	10	359.5	RIDGE RD.	15	9		X	
3-117_3-066	3-117	3-066	10	359.5	RIDGE RD.	68.400002	9	X		
3-117_3-066	3-117	3-066	10	359.5	RIDGE RD.	86.199997	3	X		
3-117_3-066	3-117	3-066	10	359.5	RIDGE RD.	125.300003	9	X		
3-117_3-066	3-117	3-066	10	359.5	RIDGE RD.	148.800003	3	X		
3-117_3-066	3-117	3-066	10	359.5	RIDGE RD.	178.199997	9	X		
3-117_3-066	3-117	3-066	10	359.5	RIDGE RD.	211.300003	2	X		
3-117_3-066	3-117	3-066	10	359.5	RIDGE RD.	282.600006	3	X		
3-117_3-066	3-117	3-066	10	359.5	RIDGE RD.	285.600006	9	X		
3-118_3-117	3-118	3-117	10	245.899994	RIDGE RD.	27.200001	3		X	
3-118_3-117	3-118	3-117	10	245.899994	RIDGE RD.	50.799999	9	X		
3-118_3-117	3-118	3-117	10	245.899994	RIDGE RD.	86.400002	3	X		
3-118_3-117	3-118	3-117	10	245.899994	RIDGE RD.	119.099998	9	X		
3-118_3-117	3-118	3-117	10	245.899994	RIDGE RD.	143.300003	3	X		
3-118_3-117	3-118	3-117	10	245.899994	RIDGE RD.	190.800003	9	X		
3-118_3-117	3-118	3-117	10	245.899994	RIDGE RD.	218.5	3		X	
3-119_3-118	3-119	3-118	8	167.5	ROY DR.	7.8	9	X		
3-119_3-118	3-119	3-118	8	167.5	ROY DR.	58.599998	9	X		
3-119_3-118	3-119	3-118	8	167.5	ROY DR.	120.900002	9	X		
3-120_3-119	3-120	3-119	8	264.5	ROY DR.	7.6	2		X	
3-120_3-119	3-120	3-119	8	264.5	ROY DR.	12.1	10		X	
3-120_3-119	3-120	3-119	8	264.5	ROY DR.	64.400002	9	X		
3-120_3-119	3-120	3-119	8	264.5	ROY DR.	68.300003	3	X		
3-120_3-119	3-120	3-119	8	264.5	ROY DR.	112.199997	9	X		
3-120_3-119	3-120	3-119	8	264.5	ROY DR.	115.599998	3	X		
3-120_3-119	3-120	3-119	8	264.5	ROY DR.	162.399994	9	X		
3-120_3-119	3-120	3-119	8	264.5	ROY DR.	216.199997	3	X		
3-120_3-119	3-120	3-119	8	264.5	ROY DR.	218.399994	9	X		
3-122_3-118	3-122	3-118	10	33.900002	RIDGE RD.	28.299999	9	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
3-123_3-122	3-123	3-122	10	278.899994	RIDGE RD.	14.9	1		X	
3-123_3-122	3-123	3-122	10	278.899994	RIDGE RD.	39.599998	9	X		
3-123_3-122	3-123	3-122	10	278.899994	RIDGE RD.	63.400002	3	X		
3-123_3-122	3-123	3-122	10	278.899994	RIDGE RD.	117	9	X		
3-123_3-122	3-123	3-122	10	278.899994	RIDGE RD.	131.800003	3	X		
3-123_3-122	3-123	3-122	10	278.899994	RIDGE RD.	191.5	9	X		
3-123_3-122	3-123	3-122	10	278.899994	RIDGE RD.	200.199997	3	X		
3-123_3-122	3-123	3-122	10	278.899994	RIDGE RD.	244.899994	9	X		
3-123_3-122	3-123	3-122	10	278.899994	RIDGE RD.	265.700012	3	X		
3-124_3-125	3-124	3-125	8	209.699997	LINCOLN AVE.	46.400002	9	X		
3-124_3-125	3-124	3-125	8	209.699997	LINCOLN AVE.	72.800003	3		X	
3-124_3-125	3-124	3-125	8	209.699997	LINCOLN AVE.	87.900002	3	X		
3-124_3-125	3-124	3-125	8	209.699997	LINCOLN AVE.	102.5	9	X		
3-124_3-125	3-124	3-125	8	209.699997	LINCOLN AVE.	152.800003	9	X		
3-125_3-126	3-125	3-126	8	285	LINCOLN AVE.	8	9	X		
3-125_3-126	3-125	3-126	8	285	LINCOLN AVE.	13.8	3		X	
3-125_3-126	3-125	3-126	8	285	LINCOLN AVE.	72.699997	10	X		
3-125_3-126	3-125	3-126	8	285	LINCOLN AVE.	132	10	X		
3-125_3-126	3-125	3-126	8	285	LINCOLN AVE.	190.800003	10	X		
3-125_3-126	3-125	3-126	8	285	LINCOLN AVE.	253.300003	10	X		
3-126_3-123	3-126	3-123	10	283.700012	RIDGE RD.	99.699997	11	X		
3-126_3-123	3-126	3-123	10	283.700012	RIDGE RD.	102.599998	1	X		
3-126_3-123	3-126	3-123	10	283.700012	RIDGE RD.	165.699997	10	X		
3-126_3-123	3-126	3-123	10	283.700012	RIDGE RD.	168.600006	3	X		
3-126_3-123	3-126	3-123	10	283.700012	RIDGE RD.	200.600006	2		X	
3-126_3-123	3-126	3-123	10	283.700012	RIDGE RD.	255	10	X		
3-126_3-123	3-126	3-123	10	283.700012	RIDGE RD.	272.5	2	X		
3-127_3-126	3-127	3-126	10	425.799988	LINCOLN AVE.	8	3	X		
3-127_3-126	3-127	3-126	10	425.799988	LINCOLN AVE.	49.700001	1	X		
3-127_3-126	3-127	3-126	10	425.799988	LINCOLN AVE.	115.400002	1	X		
3-127_3-126	3-127	3-126	10	425.799988	LINCOLN AVE.	169	2	X		
3-127_3-126	3-127	3-126	10	425.799988	LINCOLN AVE.	230.800003	2	X		
3-127_3-126	3-127	3-126	10	425.799988	LINCOLN AVE.	287.299988	3	X		
3-127_3-126	3-127	3-126	10	425.799988	LINCOLN AVE.	337.700012	2		X	
3-127_3-126	3-127	3-126	10	425.799988	LINCOLN AVE.	405.799988	1	X		
3-139_3-069	3-139	3-069	10	264.799988	WESTMORE AVE.	56.5	10		X	
3-139_3-069	3-139	3-069	10	264.799988	WESTMORE AVE.	121.199997	9		X	
3-139_3-069	3-139	3-069	10	264.799988	WESTMORE AVE.	178.300003	9	X		
3-167_3-166	3-167	3-166	10	71.900002	WESTMORE AVE.	18.799999	9	X		
6-036_6-181	6-036	6-181	18	293	SUMMIT	75.599998	12			X
6-036_6-181	6-036	6-181	18	293	SUMMIT	78	9			X
6-036_6-181	6-036	6-181	18	293	SUMMIT	121.300003	2			X

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
6-036_6-181	6-036	6-181	18	293	SUMMIT	172.899994	2			X
6-036_6-181	6-036	6-181	18	293	SUMMIT	232.800003	12			X
6-036_6-181	6-036	6-181	18	293	SUMMIT	262.5	1			X
6-038_6-037	6-038	6-037	8	218.699997	\N BUREN & S. COR	20.6	11		X	
6-038_6-037	6-038	6-037	8	218.699997	\N BUREN & S. COR	54.900002	2		X	
6-038_6-037	6-038	6-037	8	218.699997	\N BUREN & S. COR	59.5	12		X	
6-048_6-047	6-048	6-047	8	155.300003	SUMMIT	44.400002	3		X	
6-048_6-047	6-048	6-047	8	155.300003	SUMMIT	108.800003	2		X	
6-095_6-096	6-095	6-096	10	222	Rand	5	10		X	
6-095_6-096	6-095	6-096	10	222	Rand	41.8	9	X		
6-095_6-096	6-095	6-096	10	222	Rand	90.5	2		X	
6-095_6-096	6-095	6-096	10	222	Rand	128.6	3		X	
6-095_6-096	6-095	6-096	10	222	Rand	131.7	9	X		
6-095_6-096	6-095	6-096	10	222	Rand	202.6	3	X		
6-095_6-096	6-095	6-096	10	222	Rand	205.8	3	X		
6-096_6-097	6-096	6-097	10	447	Rand	11.4	3	X		
6-096_6-097	6-096	6-097	10	447	Rand	41.4	9	X		
6-096_6-097	6-096	6-097	10	447	Rand	44.1	3	X		
6-096_6-097	6-096	6-097	10	447	Rand	101.8	3		X	
6-096_6-097	6-096	6-097	10	447	Rand	158.9	9	X		
6-096_6-097	6-096	6-097	10	447	Rand	161.9	3	X		
6-096_6-097	6-096	6-097	10	447	Rand	222	2	X		
6-096_6-097	6-096	6-097	10	447	Rand	224.5	9	X		
6-096_6-097	6-096	6-097	10	447	Rand	274.1	12	X		
6-096_6-097	6-096	6-097	10	447	Rand	330.8	9	X		
6-096_6-097	6-096	6-097	10	447	Rand	334.1	2	X		
6-096_6-097	6-096	6-097	10	447	Rand	397.2	2	X		
6-097_6-106	6-097	6-106	10	487	Rand	68.9	3	X		
6-097_6-106	6-097	6-106	10	487	Rand	123.5	3	X		
6-097_6-106	6-097	6-106	10	487	Rand	126.8	9	X		
6-097_6-106	6-097	6-106	10	487	Rand	184	2	X		
6-097_6-106	6-097	6-106	10	487	Rand	238.3	9	X		
6-097_6-106	6-097	6-106	10	487	Rand	241.5	2	X		
6-097_6-106	6-097	6-106	10	487	Rand	298.7	2	X		
6-097_6-106	6-097	6-106	10	487	Rand	301.9	10	X		
6-097_6-106	6-097	6-106	10	487	Rand	374.7	2	X		
6-097_6-106	6-097	6-106	10	487	Rand	378.1	10	X		
6-097_6-106	6-097	6-106	10	487	Rand	419.8	10	X		
6-097_6-106	6-097	6-106	10	487	Rand	424	2	X		
6-097_6-106	6-097	6-106	10	487	Rand	471	2	X		
6-097_6-106	6-097	6-106	10	487	Rand	475	9	X		
6-098_6-097	6-098	6-097	10	139	Willowcrest	17	3	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
6-098_6-097	6-098	6-097	10	139	Willowcrest	18.9	9	X		
6-098_6-097	6-098	6-097	10	139	Willowcrest	100.1	3	X		
6-098_6-097	6-098	6-097	10	139	Willowcrest	102.1	9	X		
6-099_6-098	6-099	6-098	10	310	Leslie	14	3	X		
6-099_6-098	6-099	6-098	10	310	Leslie	17.2	9	X		
6-099_6-098	6-099	6-098	10	310	Leslie	61.1	3	X		
6-099_6-098	6-099	6-098	10	310	Leslie	65.7	9	X		
6-099_6-098	6-099	6-098	10	310	Leslie	122.4	3	X		
6-099_6-098	6-099	6-098	10	310	Leslie	142.8	9	X		
6-099_6-098	6-099	6-098	10	310	Leslie	230.7	9	X		
6-100_6-099	6-100	6-099	8	239	Leslie	9.8	2	X		
6-100_6-099	6-100	6-099	8	239	Leslie	13.8	9	X		
6-100_6-099	6-100	6-099	8	239	Leslie	53.5	2	X		
6-100_6-099	6-100	6-099	8	239	Leslie	107.5	3	X		
6-100_6-099	6-100	6-099	8	239	Leslie	109.1	9	X		
6-100_6-099	6-100	6-099	8	239	Leslie	164.1	3	X		
6-100_6-099	6-100	6-099	8	239	Leslie	167.1	9	X		
6-101_6-100	6-101	6-100	10	370	Leslie	41.7	9		X	
6-101_6-100	6-101	6-100	10	370	Leslie	73.6	2		X	
6-101_6-100	6-101	6-100	10	370	Leslie	140.2	3	X		
6-101_6-100	6-101	6-100	10	370	Leslie	142.6	9	X		
6-101_6-100	6-101	6-100	10	370	Leslie	163.7	10			X
6-101_6-100	6-101	6-100	10	370	Leslie	193.7	9	X		
6-101_6-100	6-101	6-100	10	370	Leslie	197.2	3	X		
6-101_6-100	6-101	6-100	10	370	Leslie	268	3	X		
6-101_6-100	6-101	6-100	10	370	Leslie	271.4	9	X		
6-101_6-100	6-101	6-100	10	370	Leslie	317.1	3	X		
6-101_6-100	6-101	6-100	10	370	Leslie	319.2	9	X		
6-103_6-098	6-103	6-098	10	369	Leslie	11.7	10		X	
6-103_6-098	6-103	6-098	10	369	Leslie	53.9	2		X	
6-103_6-098	6-103	6-098	10	369	Leslie	61.8	10		X	
6-103_6-098	6-103	6-098	10	369	Leslie	126.9	9	X		
6-103_6-098	6-103	6-098	10	369	Leslie	136.2	3	X		
6-103_6-098	6-103	6-098	10	369	Leslie	186.1	9	X		
6-103_6-098	6-103	6-098	10	369	Leslie	213.3	3	X		
6-103_6-098	6-103	6-098	10	369	Leslie	296.5	3		X	
6-104_6-103	6-104	6-103	10	330	Leslie	28.5	9	X		
6-104_6-103	6-104	6-103	10	330	Leslie	32.2	2	X		
6-104_6-103	6-104	6-103	10	330	Leslie	95.9	10	X		
6-104_6-103	6-104	6-103	10	330	Leslie	97.8	2		X	
6-104_6-103	6-104	6-103	10	330	Leslie	148.2	3	X		
6-104_6-103	6-104	6-103	10	330	Leslie	165.8	10	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
6-104_6-103	6-104	6-103	10	330	Leslie	225.2	3	X		
6-104_6-103	6-104	6-103	10	330	Leslie	228.4	9	X		
6-104_6-103	6-104	6-103	10	330	Leslie	277.8	9	X		
6-105_6-104	6-105	6-104	10	351	Leslie	54	10	X		
6-105_6-104	6-105	6-104	10	351	Leslie	57	2	X		
6-105_6-104	6-105	6-104	10	351	Leslie	125.2	10	X		
6-105_6-104	6-105	6-104	10	351	Leslie	129	2	X		
6-105_6-104	6-105	6-104	10	351	Leslie	185.4	9	X		
6-105_6-104	6-105	6-104	10	351	Leslie	188.8	3	X		
6-105_6-104	6-105	6-104	10	351	Leslie	250.7	10	X		
6-105_6-104	6-105	6-104	10	351	Leslie	253.3	2	X		
6-105_6-104	6-105	6-104	10	351	Leslie	315.3	10	X		
6-105_6-104	6-105	6-104	10	351	Leslie	318.3	2	X		
6-106_6-107	6-106	6-107	10	405	Rand	65	10	X		
6-106_6-107	6-106	6-107	10	405	Rand	67.8	2	X		
6-106_6-107	6-106	6-107	10	405	Rand	124.7	10	X		
6-106_6-107	6-106	6-107	10	405	Rand	127.8	2	X		
6-106_6-107	6-106	6-107	10	405	Rand	177.2	10	X		
6-106_6-107	6-106	6-107	10	405	Rand	180.3	2	X		
6-106_6-107	6-106	6-107	10	405	Rand	257.8	2	X		
6-106_6-107	6-106	6-107	10	405	Rand	260.8	10	X		
6-106_6-107	6-106	6-107	10	405	Rand	315.1	10		X	
6-106_6-107	6-106	6-107	10	405	Rand	323.9	2	X		
6-107_NO-MH-02	6-107	NO-MH-02	10	174	Congress	89.4	3	X		
6-107_NO-MH-02	6-107	NO-MH-02	10	174	Congress	167.9	12	X		
6-107_NO-MH-02	6-107	NO-MH-02	10	174	Congress	169.1	10		X	
6-108_6-109	6-108	6-109	10	402	Congress	6.3	2	X		
6-108_6-109	6-108	6-109	10	402	Congress	9.3	10	X		
6-108_6-109	6-108	6-109	10	402	Congress	57.2	2	X		
6-108_6-109	6-108	6-109	10	402	Congress	60.3	10	X		
6-108_6-109	6-108	6-109	10	402	Congress	105.2	2	X		
6-108_6-109	6-108	6-109	10	402	Congress	108.2	10	X		
6-108_6-109	6-108	6-109	10	402	Congress	155.6	2	X		
6-108_6-109	6-108	6-109	10	402	Congress	158.9	10	X		
6-108_6-109	6-108	6-109	10	402	Congress	203.3	2	X		
6-108_6-109	6-108	6-109	10	402	Congress	212.3	10	X		
6-108_6-109	6-108	6-109	10	402	Congress	248.3	2	X		
6-108_6-109	6-108	6-109	10	402	Congress	260.2	9	X		
6-108_6-109	6-108	6-109	10	402	Congress	305.3	2	X		
6-108_6-109	6-108	6-109	10	402	Congress	311.1	10	X		
6-108_6-109	6-108	6-109	10	402	Congress	343.9	10	X		
6-108_6-109	6-108	6-109	10	402	Congress	352.9	2	X		

Village of Villa Park

Laterals on Lined Sewers (Exhibit A-9)

Table A-6

ASSET ID	USMH	DSMH	DIAMETER (in)	Length (ft)	STREET	Footage from USMH	Clock Position	Concrete Factory Wye	Clay Break in	PVC Break in
6-109_6-113	6-109	6-113	10	99	Congress	19.4	2			X
6-109_6-113	6-109	6-113	10	99	Congress	24.1	10	X		
6-149_6-181	6-149	6-181	18	145.399994	UMMIT & CONGRES	59.5	9			X
6-149_6-181	6-149	6-181	18	145.399994	UMMIT & CONGRES	115.300003	10			X
6-263_6-095	6-263	6-095	10	82	Rand	32.5	3		X	
6-263_6-095	6-263	6-095	10	82	Rand	68.5	3		X	
6-263_6-095	6-263	6-095	10	82	Rand	71.3	9		X	
6-927_6-088	6-927	6-088	10	288.700012	1231 ADMORE	103.300003	12			X
6-927_6-088	6-927	6-088	10	288.700012	1231 ADMORE	199.199997	12			X
6-927_6-088	6-927	6-088	10	288.700012	1231 ADMORE	205.5	12			X
7-012_7-013	7-012	7-013	8	214.600006	ADAMS/SUMMIT	34.700001	10		X	
7-012_7-013	7-012	7-013	8	214.600006	ADAMS/SUMMIT	36.599998	2		X	
7-012_7-013	7-012	7-013	8	214.600006	ADAMS/SUMMIT	38.799999	11		X	
7-020_7-019	7-020	7-019	8	313.899994	15E. MONROE	6.4	2			X
7-020_7-019	7-020	7-019	8	313.899994	15E. MONROE	7.9	10			X
7-020_7-019	7-020	7-019	8	313.899994	15E. MONROE	57.099998	2			X
7-020_7-019	7-020	7-019	8	313.899994	15E. MONROE	58.299999	10			X
7-020_7-019	7-020	7-019	8	313.899994	15E. MONROE	105.099998	10		X	
7-020_7-019	7-020	7-019	8	313.899994	15E. MONROE	107.099998	2		X	
7-020_7-019	7-020	7-019	8	313.899994	15E. MONROE	167.199997	11		X	
7-026_7-025	7-026	7-025	8	214.5	MADISON/CORNEL	69.300003	2			X
7-026_7-025	7-026	7-025	8	214.5	MADISON/CORNEL	136.800003	2			X
7-026_7-025	7-026	7-025	8	214.5	MADISON/CORNEL	184.300003	2			X
NO-MH-02_6-108	NO-MH-02	6-108	10	237	Congress	39.3	2	X		
NO-MH-02_6-108	NO-MH-02	6-108	10	237	Congress	42.4	10		X	
NO-MH-02_6-108	NO-MH-02	6-108	10	237	Congress	84.9	10	X		
NO-MH-02_6-108	NO-MH-02	6-108	10	237	Congress	88.9	10			X
NO-MH-02_6-108	NO-MH-02	6-108	10	237	Congress	145.1	2	X		
NO-MH-02_6-108	NO-MH-02	6-108	10	237	Congress	148.2	10	X		
NO-MH-02_6-108	NO-MH-02	6-108	10	237	Congress	193.3	10	X		
NO-MH-02_6-108	NO-MH-02	6-108	10	237	Congress	196.4	2	X		

Village of Villa Park

Uninspected Manholes (Exhibit A-10)

Table A-7

ASSET ID	BASIN ID	LOCATION	ROUTE
6-245	6	<Null>	ROOSEVELT RD
6-293	6	<Null>	<Null>
6-167	6	GRASSED EASMT	ARDMORE AVE
6-150	6	GRASSED EASMT	ARDMORE AVE
6-133	6	PAVED EASMT	ROOSEVELT RD
2-920	2	ON SIDNEY ON THE N	YALE AVE
8-002	8	GRASSED EASMT	ROOSEVELT RD
6-137	6	NOT FOUND	ROOSEVELT RD
6-095	6	CENTER STREET	RAND RD
2-905	2	PAVED EASEMT. IN D	YALE AVE
2-906	2	S.W. CORNER ON GR	HARVARD AVE
6-261	6	<Null>	CORNELL AVE
6-262	6	<Null>	HARRISON ST
6-096	6	CENTER STREET	RAND RD
6-136	6	GRASSED EASMT	ROOSEVELT RD
6-135	6	NOT INSPECTED	ROOSEVELT RD
6-134	6	PAVED EASMT	ROOSEVELT RD
6-097	6	CENTER STREET	RAND RD
2-919	2	GRASS EASEMT IN DI	BELDEN AVE
8-003	8	GRASSED EASMT	ROOSEVELT RD
2-921	2	GRASS EASEMT / S.E	ARMITAGE AVE
2-924	2	GRASS EASEMT.	PRINCETON AVE
2-922	2	GRASS EASEMT.	PRINCETON AVE
2-923	2	GRASS EASEMT N.E.	PRINCETON AVE
2-925	2	GRASS EASEMT.	PRINCETON AVE
2-904	2	PAVED EASEMT. IN S	HARVARD AVE
2-903	2	N.E. CORNER IN PAV	HARVARD AVE
2-902	2	IN STREET PAVED EA	HARVARD AVE
6-263	6	<Null>	RAND RD
6-139	6	PAVED EASMT	ROOSEVELT RD
8-024	8	GRASSED EASMT	ROOSEVELT RD
6-101	6	GRASSED EASMT	LESLIE LN
6-100	6	GRASSED EASMT	LESLIE LN
6-099	6	GRASSED EASMT	LESLIE LN
6-102	6	CENTER STREET	WILLOWCREST DR
8-021	8	CURB	ROOSEVELT RD
8-026	8	GRASSED EASMT	ROOSEVELT RD
6-143	6	PAVED EASMT	ROOSEVELT RD
6-144	6	NOT INSPECTED	ROOSEVELT RD
7-074	7	CENTER STREET	ADAMS ST
7-062	7	CENTER STREET	ADAMS ST
6-141	6	PAVED EASMT	ROOSEVELT RD
6-175	6	NOT INSPECTED	ROOSEVELT RD
6-142	6	PAVED EASMT	ROOSEVELT RD
7-066	7	CENTER STREET	JACKSON ST
8-025	8	GRASSED EASMT	ROOSEVELT RD
2-913	2	GRASS EASEMT N.E.	HARVARD AVE
2-912	2	GRASS EASEMT.	HARVARD AVE
2-911	2	GRASS EASEMT N.W.	HARVARD AVE
2-910	2	GRASS EASEMT.	HARVARD AVE
2-909	2	GRASS EASEMT.	HARVARD AVE
6-098	6	CENTER STREET	LESLIE LN
8-022	8	PAVED EASMT	ARDMORE AVE
6-041	6	CENTER STREET	VAN BUREN ST
6-127	6	NOT FOUND	ARDMORE AVE
6-086	6	GRASSED EASMT	HARRISON ST
6-108	6	GRASSED EASMT	CONGRESS ST

ASSET ID	BASIN ID	LOCATION	ROUTE
6-171	6	GRASSED EASMT	VILLA AVE
6-026	6	PAVED EASEMT IN ST	TERRY LN
6-007	6	GUTTER	TERRY LN
6-916	6	GRASS EASEMT	ROOSEVELT RD
6-050	6	GRASSED EASMT	HARRISON ST
6-226	6	PAVED EASEMT DRIVE	MONTEREY AVE
6-227	6	PAVED EASEMT DRIVE	MONTEREY AVE
6-228	6	GRASS EASEMT	MONTEREY AVE
6-212	6	PAVED EASEMT DRIVE	WAYSIDE DR
6-213	6	PAVED EASEMT DRIVE	WAYSIDE DR
6-214	6	GRASS EASEMT	WAYSIDE DR
6-215	6	GRASS EASEMT	WAYSIDE DR
6-223	6	GRASS EASEMT N.E.	KOLBERG CT
6-400	6	GRASS EASEMT N.E.	RIORDON RD
6-236	6	PAVED EASEMT DRIVE	OAKLAND AVE
6-401	6	GRASS EASEMT	RIORDON RD
6-402	6	GRASS EASEMT	RIORDON RD
6-403	6	GRASS EASEMT	RIORDON RD
6-405	6	GRASS EASEMT	MONTEREY AVE
6-235	6	GRASS EASEMT	OAKLAND AVE
6-234	6	GRASS EASEMT N.E.	BLACKSTONE PL
6-233	6	GRASS EASEMT S.E.	BLACKSTONE PL
6-409	6	GRASS EASEMT ON TH	BLACKSTONE PL
6-406	6	GRASS EASEMT / SO.	BLACKSTONE PL
6-407	6	GRASS EASEMT ON MO	MONTEREY AVE
6-408	6	GRASS EASEMT WEST	MONTEREY AVE
6-930	6	GRASS EASEMT ON TH	VILLA AVE
6-931	6	GRASS EASEMT N.E.	VILLA AVE
6-404	6	GRASS EASEMT	MONTEREY AVE
6-005	6	CENTER STREET	CROSS ST
6-917	6	PAVED EAESEMT PARK	ROOSEVELT RD
6-148	6	GRASSED EASMT	HARRISON ST
6-180	6	PAVED EASEMT IN ST	TERRY LN
6-004	6	GRASSED EASMT	SUGAR CREEK
6-051	6	GRASSED EASMT	HARRISON ST
6-052	6	GRASSED EASMT	HARRISON ST
1-032	1	PAVED EASMT	VILLA AVE
1-031	1	PAVED EASMT	VILLA AVE
6-001	6	GRASSED EASMT	SUGAR CREEK
6-177	6	PAVED EASEMT ON TE	VILLA AVE
5-027	5	PAVED EASEMT	VILLA AVE
6-061	6	NOT INSPECTED	VILLA AVE
6-925	6	GRASS EASEMT	VILLA AVE
6-900	6	GRASS EASEMT	VILLA AVE
6-922	6	GRASS EASEMT	VILLA AVE
6-053	6	GUTTER	VILLA AVE
6-054	6	PAVED EASMT	VILLA AVE
6-060	6	GUTTER	VILLA AVE
6-938	6	GRASSED EASMT	VILLA AVE
6-901	6	PAVED EASEMT IN ST	VILLA AVE
5-025	5	CENTER STREET	MADISON ST
5-024	5	CENTER STREET	MADISON ST
6-059	6	DITCH	VAN BUREN ST
6-237	6	GRASS EASEMT / N.	OAKLAND AVE
6-232	6	GRASS EASEMT ON OA	RIORDON RD
6-231	6	PAVED EASEMT DRIVE	OAKLAND AVE
6-230	6	PAVED EASEMT DRIVE	OAKLAND AVE

Village of Villa Park

Uninspected Manholes (Exhibit A-10)

Table A-7

ASSET ID	BASIN ID	LOCATION	ROUTE
6-902	6	GRASS EASEMT	ARDMORE AVE
6-040	6	CENTER STREET	VAN BUREN ST
6-038	6	CENTER STREET	VAN BUREN ST
6-116	6	GRASSED EASMT	CORNELL AVE
8-023	8	DITCH	ROOSEVELT RD
2-914	2	GRASS EASEMT. S.W.	ARMITAGE AVE
2-915	2	GRASS EASEMT.	YALE AVE
2-916	2	GRASS EASEMT IN DI	YALE AVE
6-138	6	PAVED EASMT	ROOSEVELT RD
2-917	2	GRASS EASEMT. AT S	YALE AVE
2-918	2	GRASS EASEMT.	YALE AVE
6-103	6	GRASSED EASMT	LESLIE LN
8-010	8	GRASSED EASMT	ROOSEVELT RD
6-131	6	NOT FOUND	ROOSEVELT RD
8-004	8	PAVED EASMT	ROOSEVELT RD
6-132	6	GRASSED EASMT	ARDMORE AVE
2-930	2	GRASS EASEMT.	PRINCETON AVE
2-907	2	GRASS EASEMT. S.E.	PRINCETON AVE
6-104	6	PAVED EASMT	LESLIE LN
6-106	6	GRASSED EASMT	RAND RD
2-926	2	GRASS EASEMT. ON T	BELDEN AVE
6-130	6	NOT INSPECTED	ARDMORE AVE
2-927	2	GRASS EASEMT / S.W	ARDMORE AVE
6-149	6	CENTER STREET	SUMMIT AVE
6-046	6	PAVED EASMT	SUMMIT AVE
6-181	6	GRASS EASEMT	SUMMIT AVE
6-036	6	PAVED EASEMT IN ST	SUMMIT AVE
6-085	6	PAVED EASMT	HARRISON ST
6-117	6	NOT FOUND	CORNELL AVE
6-903	6	PAVED EASEMT IN AL	ROOSEVELT RD
6-904	6	PAVED EASEMT WEST	ROOSEVELT RD
6-084	6	GRASSED EASMT	HARRISON ST
6-083	6	GRASSED EASMT	ORCHARD HILL CT
6-039	6	CENTER STREET	VAN BUREN ST
6-109	6	GRASSED EASMT	CONGRESS ST
6-082	6	GRASSED EASMT	HARRISON ST
6-905	6	GRASS EASEMT	ROOSEVELT RD
8-005	8	GRASSED EASMT	ROOSEVELT RD
2-928	2	GRASS EASEMT.	ARDMORE AVE
2-929	2	PAVED EASEMT. / N	ARDMORE AVE
2-931	2	GRASS EASEMT. / EA	ARDMORE AVE
2-932	2	ON THE EAST SIDE O	ARDMORE AVE
6-105	6	GRASSED EASMT	LESLIE LN
6-094	6	CENTER STREET	ARDMORE AVE
6-093	6	CENTER STREET	ARDMORE AVE
6-092	6	CENTER STREET	ARDMORE AVE
6-091	6	CENTER STREET	ARDMORE AVE
6-107	6	CENTER STREET	ARDMORE AVE
6-090	6	CENTER STREET	ARDMORE AVE
6-118	6	GRASSED EASMT	ARDMORE AVE
6-119	6	GRASSED EASMT	ARDMORE AVE
6-120	6	GRASSED EASMT	ARDMORE AVE
6-089	6	CENTER STREET	ARDMORE AVE
6-122	6	GRASSED EASMT	ARDMORE AVE
6-123	6	PAVED EASMT	ARDMORE AVE
6-087	6	GRASSED EASMT	HARRISON ST
6-124	6	GRASSED EASMT	ARDMORE AVE

ASSET ID	BASIN ID	LOCATION	ROUTE
6-222	6	GRASS EASEMT	KOLBERG CT
6-221	6	PAVED EASEMT N.E.	OAKLAND AVE
6-220	6	GRASS EASEMT ON EA	OAKLAND AVE
6-211	6	GRASS EASEMT	WAYSIDE DR
6-225	6	GRASS EASEMT	KOLBERG CT
6-224	6	GRASS EASEMT	KOLBERG CT
5-023	5	GRASSED EASMT	MONTEREY AVE
5-022	5	DITCH	MONTEREY AVE
5-021	5	CURB	MADISON ST
5-020	5	GUTTER	MADISON ST
5-053	5	PAVED EASEMT / IN	MADISON ST
5-052	5	PAVED EASEMT / IN	MADISON ST
5-035	5	GRASSED EASMT	MADISON ST
5-019	5	CENTER STREET	MADISON ST
6-058	6	GUTTER	VAN BUREN ST
5-013	5	PAVED EASMT	RIVERSIDE DR
5-015	5	GRASSED EASMT	RIVERSIDE DR
5-016	5	GUTTER	RIVERSIDE DR
5-012	5	NOT FOUND	RIVERSIDE DR
5-014	5	BURIED	RIVERSIDE DR
5-018	5	CENTER STREET	MADISON ST
5-048	5	PAVED EASEMT / IN	RIVERSIDE DR
5-049	5	PAVED EASEMT / IN	RIVERSIDE DR
5-050	5	PAVED EASEMT / IN	RIVERSIDE DR
6-169	6	PAVED EASMT	VAN BUREN ST
5-017	5	GRASSED EASMT	MADISON ST
6-250	6	GUTTER	VILLA AVE
4-001	4	GRASSED EASMT	IL ROUTE 83
4-002	4	DITCH	IL ROUTE 83
4-003	4	GRASSED EASMT	IL ROUTE 83
4-004	4	GRASSED EASMT	IL ROUTE 83
4-005	4	GRASSED EASMT	IL ROUTE 83
5-033	5	NOT INSPECTED	IL ROUTE 83
4-006	4	GRASSED EASMT	IL ROUTE 83
4-012	4	PAVED EASMT	IL ROUTE 83
4-011	4	NOT INSPECTED	IL ROUTE 83
4-010	4	GRASSED EASMT	IL ROUTE 83
4-009	4	NOT FOUND	IL ROUTE 83
1-001	1	GRASSED EASMT	IL ROUTE 83
2-936	2	GRASS EASEMT.	ARDMORE AVE
2-937	2	GRASS EASEMT.	YALE AVE
2-938	2	GRASS EASEMT.	HARVARD AVE
2-939	2	PAVED EASEMT IN DR	ARDMORE AVE
2-940	2	GRASS EASEMT ON TH	ARDMORE AVE
2-949	2	PAVED EASEMT. IN S	NORTH AVE
6-200	6	GRASS EASEMT PARKW	VAN BUREN ST
6-201	6	GRASS EASEMT S.E.	VAN BUREN ST
6-202	6	PAVED EASEMT DRIVE	OAKLAND AVE
6-203	6	PAVED EASEMT S.E.	OAKLAND AVE
6-204	6	GRASS EASEMT	CALDUTO CIR
6-205	6	PAVED EASEMT IN ST	CALDUTO CIR
6-206	6	GRASS EASEMT PARKW	OAKLAND AVE
6-219	6	GRASS EASEMT ON EA	OAKLAND AVE
6-218	6	PAVED EASEMT N.E.	OAKLAND AVE
6-217	6	PAVED EASEMT DRIVE	LANE DR
6-207	6	GRASS EASEMT	HARRISON ST
6-208	6	GRASS EASEMT S.E.	HARRISON ST

Village of Villa Park

Uninspected Manholes (Exhibit A-10)

Table A-7

ASSET ID	BASIN ID	LOCATION	ROUTE
6-129	6	GRASSED EASMT	ARDMORE AVE
6-140	6	GRASSED EASMT	ARDMORE AVE
6-125	6	NOT FOUND	ARDMORE AVE
8-006	8	CURB	ARDMORE AVE
8-007	8	GRASSED EASMT	ARDMORE AVE
8-008	8	GRASSED EASMT	ARDMORE AVE
6-126	6	NOT FOUND	ARDMORE AVE
8-009	8	GRASSED EASMT	ARDMORE AVE
6-115	6	PAVED EASMT	HARRISON ST
6-081	6	GRASSED EASMT	HARRISON ST
6-112	6	CENTER STREET	CONGRESS ST
6-113	6	GRASSED EASMT	CORNELL AVE
6-168	6	GRASSED EASMT	CORNELL AVE
6-114	6	GRASSED EASMT	HARRISON ST
6-906	6	PAVED EASEMT ON EA	ROOSEVELT RD
6-110	6	NOT FOUND	CONGRESS ST
6-080	6	GRASSED EASMT	HARRISON ST
6-907	6	GRASS EASEMT	ROOSEVELT RD
6-037	6	CENTER STREET	VAN BUREN ST
6-913	6	GRASS EASEMT ON WE	VILLA AVE
6-914	6	GRASS EASEMT N.E.	VILLA AVE
6-909	6	GRASS EASEMT	VILLA AVE
6-910	6	GRASS EASEMT	VILLA AVE
6-911	6	GRASS EASEMT S.E.	BLACKSTONE PL
5-031	5	GRASSED EASMT	IL ROUTE 83
1-156	1	GRASSED EASMT	IL ROUTE 83
5-032	5	GRASSED EASMT	IL ROUTE 83
6-929	6	PAVED EASEMT SIDEW	EUCLID AVE
6-079	6	GRASSED EASMT	SUMMIT AVE
6-047	6	PAVED EASMT	SUMMIT AVE
6-031	6	GRASSED EASMT	SUMMIT AVE
6-048	6	GRASSED EASMT	SUMMIT AVE
6-030	6	GRASSED EASMT	SUMMIT AVE
6-029	6	PAVED EASEMT IN ST	SUMMIT AVE
6-049	6	CENTER STREET	SUMMIT AVE
6-915	6	PAVED EASEMT SIDEW	ROOSEVELT RD
6-028	6	PAVED EASEMT IN ST	TERRY LN
6-027	6	PAVED EASEMT IN ST	TERRY LN
6-921	6	PAVED EASEMT SIDEW	EUCLID AVE
6-003	6	GRASSED EASMT	SUGAR CREEK
6-179	6	PAVED EASEMT IN ST	TERRY LN
6-002	6	GRASSED EASMT	SUGAR CREEK
6-178	6	PAVED EASEMT IN ST	TERRY LN
6-920	6	GRASS EASEMT	EUCLID AVE
6-918	6	GRASS EASEMT N.W.	EUCLID AVE
4-007	4	NOT FOUND	WASHINGTON ST
6-251	6	GRASSED EASMT	HARRISON ST
6-252	6	GRASSED EASMT	HARRISON ST
6-253	6	GRASSED EASMT	HARRISON ST
6-146	6	CENTER STREET	CONGRESS ST
6-923	6	GRASS EASEMT	SUMMIT AVE
6-055	6	DITCH	VILLA AVE
6-056	6	GRASSED EASMT	VILLA AVE
6-057	6	GUTTER	VILLA AVE
6-908	6	PAVED EASEMT IN ST	VILLA AVE
6-172	6	GRASSED EASMT	VILLA AVE

ASSET ID	BASIN ID	LOCATION	ROUTE
6-209	6	GRASS EASEMT	HARRISON ST
6-216	6	GRASS EASEMT	LANE DR
6-210	6	PAVED EASEMT DRIVE	WAYSIDE DR
6-182	6	GRASS EASEMT	VAN BUREN ST
8-027	8	GRASSED EASMT	ROOSEVELT RD
4-017	4	GRASSED EASMT	IL ROUTE 83
4-016	4	GRASSED EASMT	IL ROUTE 83
6-932	6	GRASS EASEMT	VILLA AVE
5-057	5	JUNCTION CHAMBER A	IL ROUTE 83
4-018	4	GRASSED EASMT	IL ROUTE 83
6-933	6	GRASS EASEMT IN M	ROOSEVELT RD
6-934	6	GRASS EASEMT AT TH	SUMMIT AVE
6-183	6	PAVED EASEMT ON WE	ROOSEVELT RD
6-184	6	GRASS EASEMT BY HI	ARDMORE AVE
6-238	6	PAVED EASEMT / S.W	ARDMORE AVE
4-021	4	M.H. NEXT TO LIFT	IL ROUTE 83
6-239	6	CENTER OF STREET	RIORDON RD
6-240	6	CENTER OF STREET A	RIORDON RD
6-241	6	PAVED EASEMT	RIORDON RD
6-242	6	GRASS EASEMT	CORNELL AVE
6-244	6	GRASS EASEMT	RIORDON RD
4-019	4	GRASS EASEMT. ON M	IL ROUTE 83
6-147	6	<Null>	CONGRESS ST
6-940	6	GRASS EASEMT AT TH	SUMMIT AVE
6-941	6	GRASS EASEMT AT TH	SUMMIT AVE
6-942	6	GRASS EASEMT AT TH	SUMMIT AVE
6-246	6	<Null>	HARRISON ST
6-254	6	PAVEMENT	MYRTLE AVE
6-255	6	PAVEMENT	MYRTLE AVE
6-256	6	PAVEMENT	MYRTLE AVE
6-258	6	PAVEMENT	JULIA DR
2-944	2	<Null>	PRINCETON AVE
2-945	2	<Null>	PRINCETON AVE
2-947	2	<Null>	SIDNEY AVE
2-946	2	<Null>	PRINCETON AVE
2-942	2	GRASS EASEMT IN DI	BELDEN AVE
6-912	6	<Null>	ROOSEVELT RD
2-115	2	PARKWAY	HILL ST
2-116	2	PARKWAY	HILL ST
2-114	2	PARKWAY	HILL ST
2-113	2	PARKWAY	HILL ST
2-112	2	PARKWAY	HILL ST
1-159	1	NOT FOUND	ADDISON RD
1-219	1	PARKWAY	RIDGE RD
1-220	1	PARKWAY	RIDGE RD
3-129	3	GRASSED EASMT	KRAMER AVE
1-128	1	GRASSED EASMT	ARDMORE AVE
3-004	3	GRASSED EASMT	VERMONT ST
1-110	1	PAVED EASMT	STONE RD
1-118	1	NOT FOUND	YALE AVE
1-192	1	GRASS EASEMENT JUS	DOUGLAS AVE
1-191	1	GRASS EASEMENT JUS	ELLSWORTH AVE
2-072	2	GRASSED EASMT	ADELE CT
1-024	1	NOT FOUND	VILLA AVE
2-943	2	GRASS EASEMT. AT N	NORTH AVE
1-105	1	<Null>	STONE RD

APPENDIX B

SOUTH VILLA LIFT STATION EVALUATION

VILLA PARK, ILLINOIS

Mr. Michael M. Guerra, P.E.
Director of Public Works
Village of Villa Park
20 S. Ardmore Ave.
Villa Park, Illinois 60181

SUBJECT: **VILLAGE OF VILLA PARK SANITARY SEWER MASTER PLAN**
SOUTH VILLA LIFT STATION EVALUATION

Dear Mr. Guerra,

RJN Group, Inc. (RJN) is pleased to submit this evaluation of the South Villa Lift Station as part of the Sanitary Sewer Master Plan update. This memorandum addresses the condition and hydraulic performance of the existing lift station and discusses options for improvements.

BACKGROUND AND OBJECTIVES

The South Villa Lift Station is the largest of six lift stations in the Village, effectively serving the entire separated sanitary basins south of Madison Street (Basins 6, 7, and 8). The service area is primarily a mix of commercial properties along Roosevelt Road, single-family homes constructed mainly during the 1950s and 1960s, and institutional facilities including Willowbrook High School.



Figure 1 - South Villa Lift Station Service Area

The existing station capacity is approximately 4.0 mgd and is permitted for a service population of 6,200 PE but was designed with an ultimate service population of as much as 10,000 PE. Flow monitoring of the service area in 2022 measured an average dry-weather flow (ADWF) of approximately 0.57 mgd. Flow collected at the lift station is pumped through one of two short ductile iron force mains—one a 390-foot, 10-inch pipe and the other a 960-foot, 12-inch pipe—toward the intersection of Madison Street and Villa Avenue. From there it is conveyed by a 21-inch sanitary interceptor and, when needed, a parallel 18-inch relief sewer that both run east along Madison and then north along Riverside Drive toward the Salt Creek Sanitary District (SCSD) and Wet-Weather Flow Treatment Facility (WWFTF).



Figure 2 - South Villa Lift Station Force Mains and Receiving Sewers

The station was constructed concurrent to the development of the service area and originally discharged only through a 10-inch force main. It has since undergone two significant improvements—the installation of a third pump in 1998 and a 2006 upgrade that included the replacement of the 10-inch force main, construction of the 12-inch force main, and installation of upsized pumps. Additionally, two of the three pumps were replaced with chopper pumps in 2018, and the remaining pump was also replaced with a new submersible since that time. As the station currently operates, the two chopper pumps discharge to the 12-inch force main while the remaining submersible pump discharges to the 10-inch force main.



South Villa Lift Station

A field investigation was conducted on October 17, 2023 to inspect the condition and operation of the lift station. Observations from the investigation are summarized in the subsequent sections of this memorandum, and the inspection report is appended.

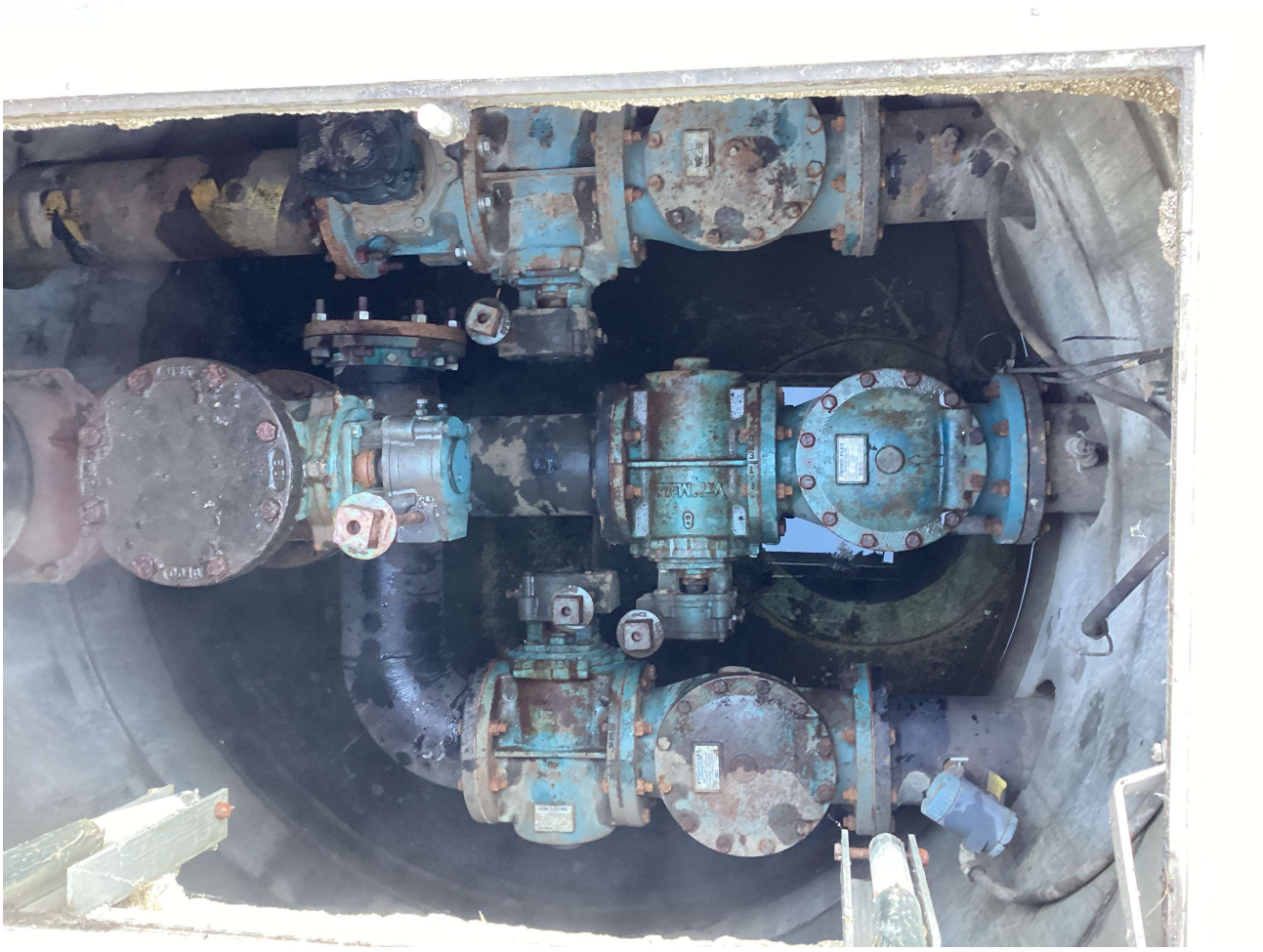
Wet Well and Valve Vault

The wet well is 10 feet in diameter and approximately 20.8 feet deep. There are two influent pipe connections, both of which enter the wet well approximately 6 to 7 feet above the bottom of the well. The primary influent line is an 18-inch sewer from structure 6-938 that enters from the south. There is also an 18-inch relief sewer from structure 6-177 on Terry Lane that enters from the west and is only active during wet-weather conditions. The structure condition was generally sound, though some aggregate from corrosion was visible on the structure wall, and there was evidence of active infiltration through the hatch and wall joints.



Wet Well Topside View

The valve vault also appeared to be in sound condition with some standing water at the bottom of the structure from groundwater infiltration. According to record drawings from the 2006 force main construction, the vault was largely left as-is, and the new 12-inch force main was cored into the existing structure.



Valve Vault Topside View

Pumps

The station is equipped with three submersible pumps, two chopper pumps and a third submersible pump primarily used in high-flow conditions. The latter pump discharges to the 10-inch force main while the two chopper pumps discharge to the 12-inch force main. The pump configurations and specifications are summarized in Table 1.

Table 1 - Pump Inventory

Pump	Model/Type	Discharges to	Design Flow
Pump 1	Sulzer ABS XFP Submersible	10” FM	1343 gpm @ 20’ TDH
Pump 2	Flow-Technics EPI Chopper	12” FM	1160 gpm@ 20’ TDH
Pump 3	Flow-Technics EPI Chopper	12” FM	1160 gpm@ 20’ TDH

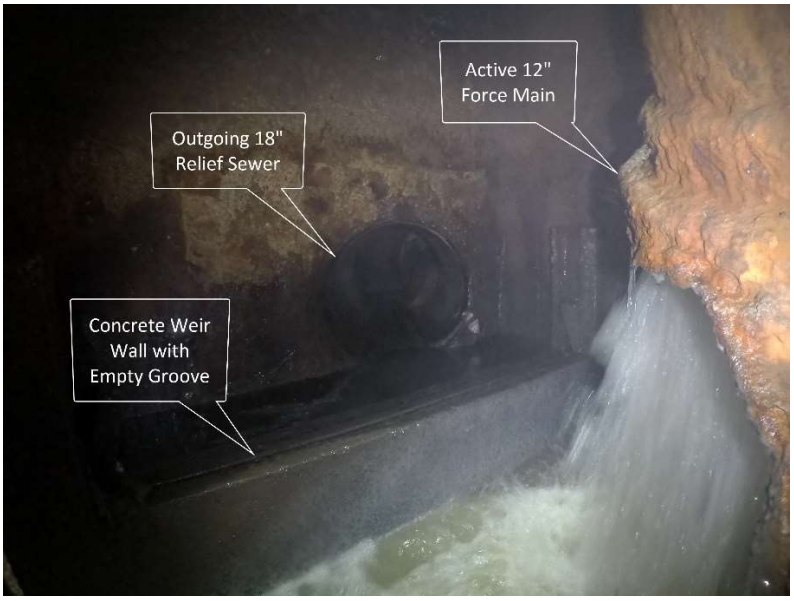
During routine operation, the chopper pumps alternate and cycle between a wet well level of 3.5 feet and 6.0 feet. During high-flow, high-well conditions, both chopper pumps can run in series. When the wet well reaches the alarm level of 20.0 feet, Pump 1 activates, and all three pumps run until the wet well is drawn down to its normal cycle range.

FORCE MAIN DISCHARGE ASSESSMENT

Inspections were conducted on the discharge structures of each force main in November 2023 to assess the condition of the structures and force mains and to confirm the depths and configurations of other connecting pipes. The two structures, 5-026 and 5-028 (shown on Figure 2 on Page 2), are only two pipe segments (approximately 570 feet) apart and are connected by an 18-inch gravity sewer.

12-Inch Force Main

The 12-inch force main discharges to structure 5-026 at Madison and Villa. The force main and 18-inch gravity sewer from 5-028 (by way of 5-027) are the only incoming pipes, and the primary outlet is the 21-inch interceptor that flows east along Madison Street. The structure also has a concrete weir with grooves for additional weir boards which control the diversion of high flows to the parallel 18-inch relief sewer. No boards were present at the time of inspection, and the crest of the concrete weir was observed to be approximately a foot above the invert of the primary interceptor outlet.



Bottom of Structure 5-026 (Facing NE)

The force main has an external drop outside of the structure, as an iron pipe with a flanged cap was observed on the south wall several feet above the force main discharge. As the force main enters the structure, a vertical 90-degree bend directs the flow toward the bottom of the structure. As a result, the internal wall of the pipe could not be readily observed from the discharge end, but some scaling and corrosion could be observed on the exterior wall of the force main and the capped drop connection.



External Drop Pipe



Discharge of 12" Force Main



Exterior Wall of 12" Force Main

The structure is nearly 22 feet deep and is generally in sound condition. Debris observed hanging from the bottom of the force main and lower rungs of steps were likely evidence of previous surcharging in the structure.

10-Inch Force Main

The 10-inch force main discharges to structure 5-028 near 821 S. Villa Avenue. This structure is very shallow and has no other pipe connections besides the force main and the 18-inch gravity outlet toward the diversion structure 5-026 on Villa and Madison. Unlike structure 5-026, this structure had visible aggregate from hydrogen sulfide corrosion on the walls and bench. The internal wall of the force main was observable by camera and has visible scaling and corrosion.



Topside View of 5-026



Discharge of 10" Force Main



Interior Wall of 10" Force Main

Prior to inspection, it was assumed that the force main is not active as part of routine pump cycling but is primarily utilized during wet-weather events when operation of a third pump is needed. However, the force main was observed active for a pump cycle during the inspection. While the pump was on, there was no indication that outflow through the 18-inch gravity sewer was restricted in any way that might cause the structure to surcharge and overflow due to continuous pumping during wet-weather events.

HYDRAULIC ANALYSIS

A hydraulic analysis was conducted to evaluate the performance of the South Villa Lift Station relative to design conditions. The analysis is based on pump specifications provided by the Village and observations collected during the lift station inspection conducted on October 17, 2023.

A timed fill-and-draw calibration was conducted during the October 2023 inspection to measure the observed output of the station in each pumping configuration. The results of each test are attached to this document and summarized in Table 2.

Table 2 - Fill-and-Draw Test Results

Pumping Configuration	Observed Output (gpm)
Pump 1	1,362
Pump 2	934
Pump 3	967
Pumps 1+2	2,210
Pumps 1+3	2,255
Pumps 2+3	1,560
Pumps 1+2+3	2,854

As anticipated, the operation of Pump 1, the ABS submersible pump that discharges to the 10-inch force main, yields the largest increase in capacity when run in tandem with one of the chopper pumps (Pumps 2 and 3), effectively adding 100% of its capacity to the total station output when operating. Pumps 2 and 3, which share the 12-inch force main, pump approximately 65% more flow when run together compared to the output of either pump running individually.

The results of the fill-and-draw calibration were compared to theoretical flow rates calculated from the force main system curves and pump curves provided by the pump manufacturers. Because the force mains are so short, most of the pumping energy is used to overcome the static head differential, or change in grade between the wet well and discharge structures, while only a fraction of the total dynamic head (TDH) on the system curve is from friction losses and bends. The theoretical flow rates are therefore sensitive to the wet well level during pump operation, and system curves were developed to reflect both high static head (low wet well level) and low static head (high wet well level) conditions.

The static head differentials at key wet well levels are summarized for each force main in Table 3. Rim elevations in the Village GIS and field-collected measure-downs were used to calculate the elevations of the wet well bottom (643.02) and force main discharges (658.85 for the 10-inch force main; 670.38 for the 12-inch force main).

Table 3 - Static Head Conditions

Operation	Wet Well Level (ft)	Wet Well Elevation	Static Head in 12" FM (ft)	Static Head in 10" FM (ft)
Pumps Off	3.5	646.5	23.9	12.3
Pump Cycle On	6.0	649.0	21.4	9.8
High-Level Alarm	20.0	663.0	7.4	-4.2

The pump and system curves for each operating condition are shown in Figure 3 and Figure 4. In each figure, system curves are shown for the on level (6.0 feet), off level (3.5 feet), and alarm level (20.0 feet) wet well depths, with the typical operating range highlighted in yellow.

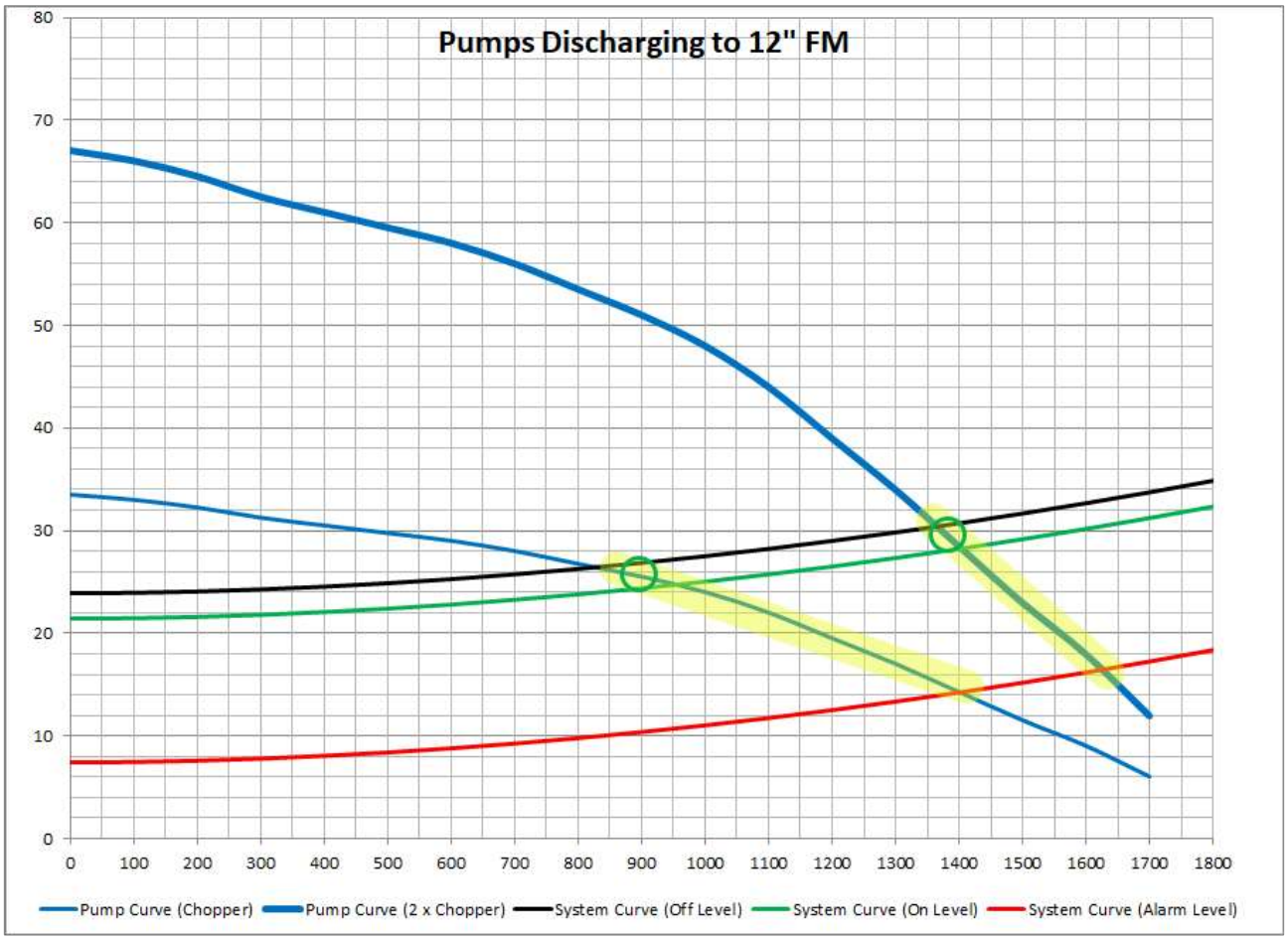


Figure 3 - Pump and System Curves for 12-Inch Force Main

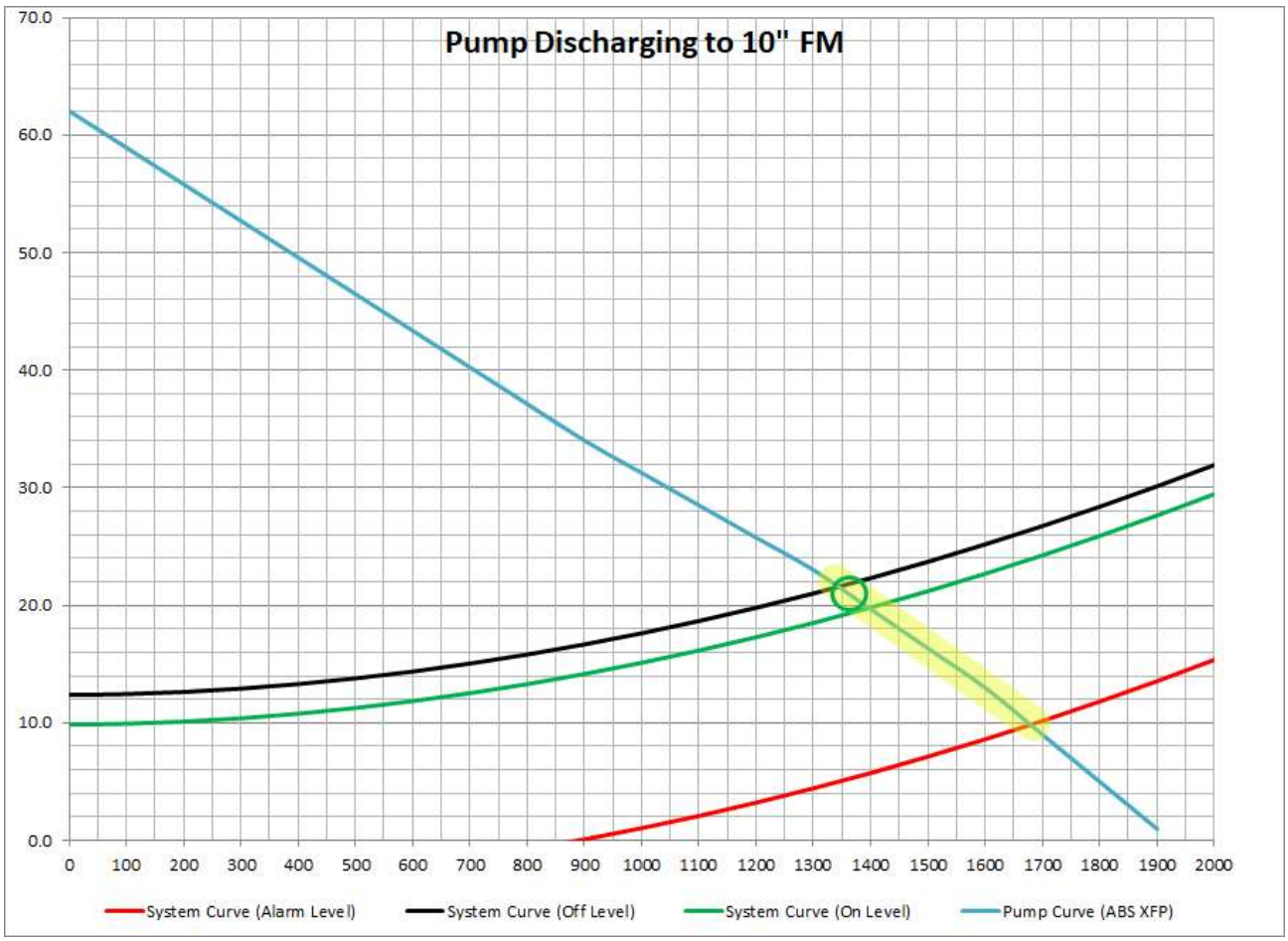


Figure 4 - Pump and System Curves for 10-Inch Force Main

The observed flow rates during the fill-and-draw calibration and the calculated theoretical flow rates are compared in Table 4. Because the fill-and-draw tests were conducted while the wet well was in its typical cycle range, the pumping rates associated with the pump-on levels (circled in green on the graphs) are used to represent the theoretical flow rate.

Table 4 - Comparison of Observed and Theoretical Pumping Rates

Pumping Configuration	Observed Output (gpm)	Observed Output (mgd)	Theoretical Output (gpm)	Theoretical Output (mgd)	Observed as % of Theoretical
Pump 1	1,362	1.96	1,360	1.96	100%
Pump 2	934	1.35	900	1.30	104%
Pump 3	967	1.39	900	1.30	107%
Pumps 1+2	2,210	3.18	2,260	3.25	98%
Pumps 1+3	2,255	3.25	2,260	3.25	100%
Pumps 2+3	1,560	2.25	1,380	1.99	113%
Pumps 1+2+3	2,854	4.11	2,740	3.95	104%

Generally, the pumping rates calculated from the pump and system curves are very consistent with those observed during the fill-and-draw calibration, and the total capacity is consistent with the 4.0 mgd design capacity. However, the system curve calculations indicate that the total capacity could be as high as 3,300 gpm (1,625 gpm from the chopper pumps and 1,675 gpm from Pump 1), or 4.7 mgd, during high well level conditions.

Downstream Capacity

Downstream capacity was evaluated using the sanitary system hydraulic model developed and calibrated in 2022 and summarized in the *2022 Flow Monitoring and Hydraulic Modeling Summary Report* dated January 2023.

The capacity of the outgoing 18-inch sewer from 5-028 is approximately 1.9 mgd, equal to the observed pumping rate through the 10-inch force main (Pump 1) during the fill-and-draw test but slightly less than the calculated capacity of 2.4 mgd when the wet well is full. The structure is also less than six feet deep, and there is a 15-foot uphill grade between the rim of 5-028 and the rim of 5-026 at Villa and Madison. Therefore, only four to five feet of surcharge in 5-026 would result in a hydraulic grade above the rim of 5-028.



Figure 5 - Structure 5-028 near 821 S. Villa

As previously established, the parallel outgoing sewers from 5-026 have a combined capacity of approximately 6.0 mgd, more than the lift station design flow of 4.0 mgd and the theoretical maximum output of 4.7 mgd. Because the combined capacity of the parallel sewers exceeds the maximum output

from the lift station, it is unlikely that these sewers would surcharge solely as a result of lift station operation overloading the gravity sewer capacity.

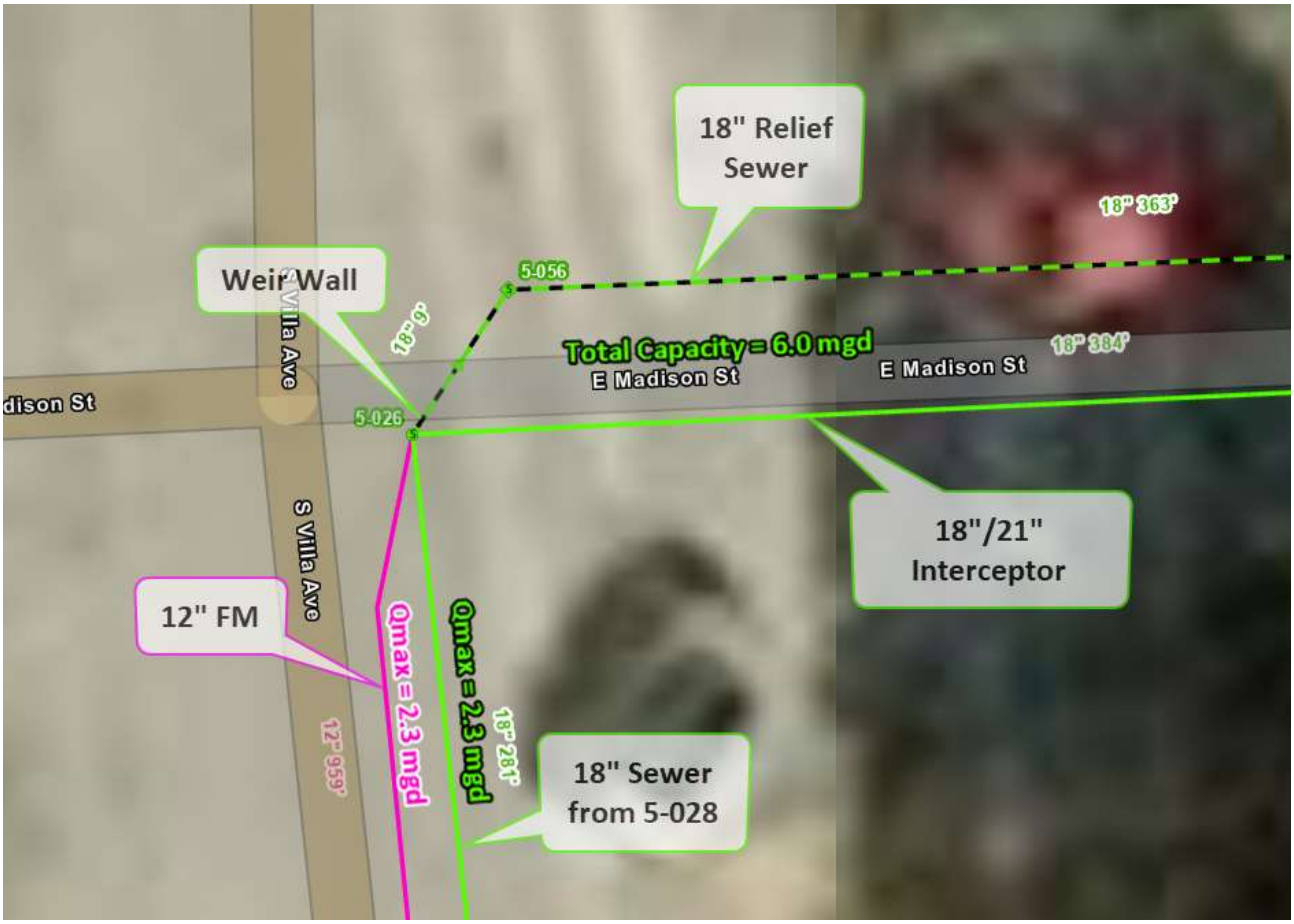


Figure 6 - Structure 5-026 at Madison and Villa

Additional evaluation in the model indicates that downstream conditions are a critical factor in the SSO risk near the discharge of South Villa Lift Station. The model was reevaluated using a 2-year design storm, but generally any storm larger than a 6-month event would produce similar conditions in which the lift station operates at full capacity and the SCSD and WWFTF facilities are operating at or near their maximum hydraulic capacity.

The model indicates that surcharging and SSOs at structure 5-028 are unlikely to be a direct result of running Pump 1 through the 10-inch force main. When the force main discharges the theoretical maximum flow of 2.4 mgd, the 18-inch gravity outlet surcharges less than a foot, and the hydraulic grade line (HGL) does not approach SSO level in the absence of additional restriction downstream, as shown on Figure 7.

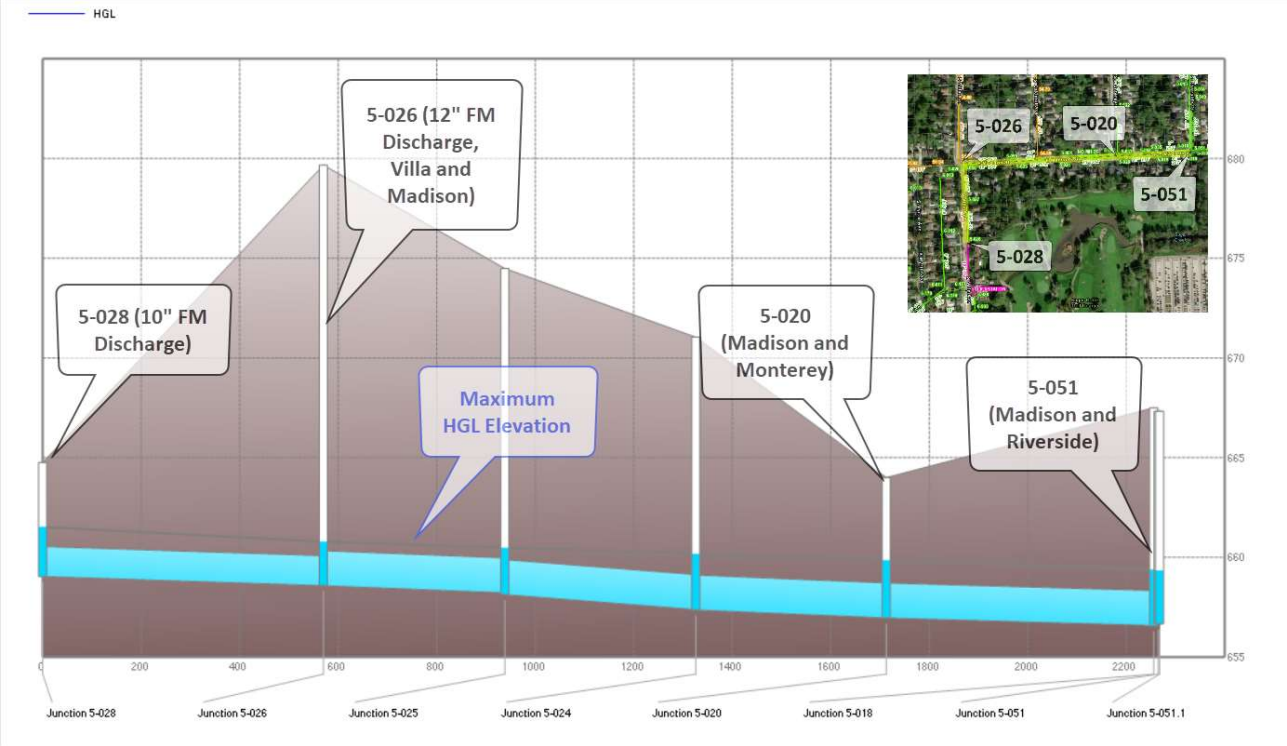


Figure 7 - Hydraulic Profile, No Restriction from Treatment Plants

Rather, SSOs at 5-028 are primarily the result of surcharging in the interceptor and relief system downstream of 5-026. The model indicates that when the South Villa Lift Station operates at full capacity, it is typical for the SCSD treatment facility to also be operating at full capacity. When that occurs, the interceptor and relief sewer system fill and flow at less than full-pipe capacity, eventually surcharging to the 5-028 rim elevation. This model result is consistent with the observed SSOs at 5-028 and presence of debris on the lower rungs of steps in 5-026 despite adequate downstream capacity to convey the maximum output from South Villa Lift Station.

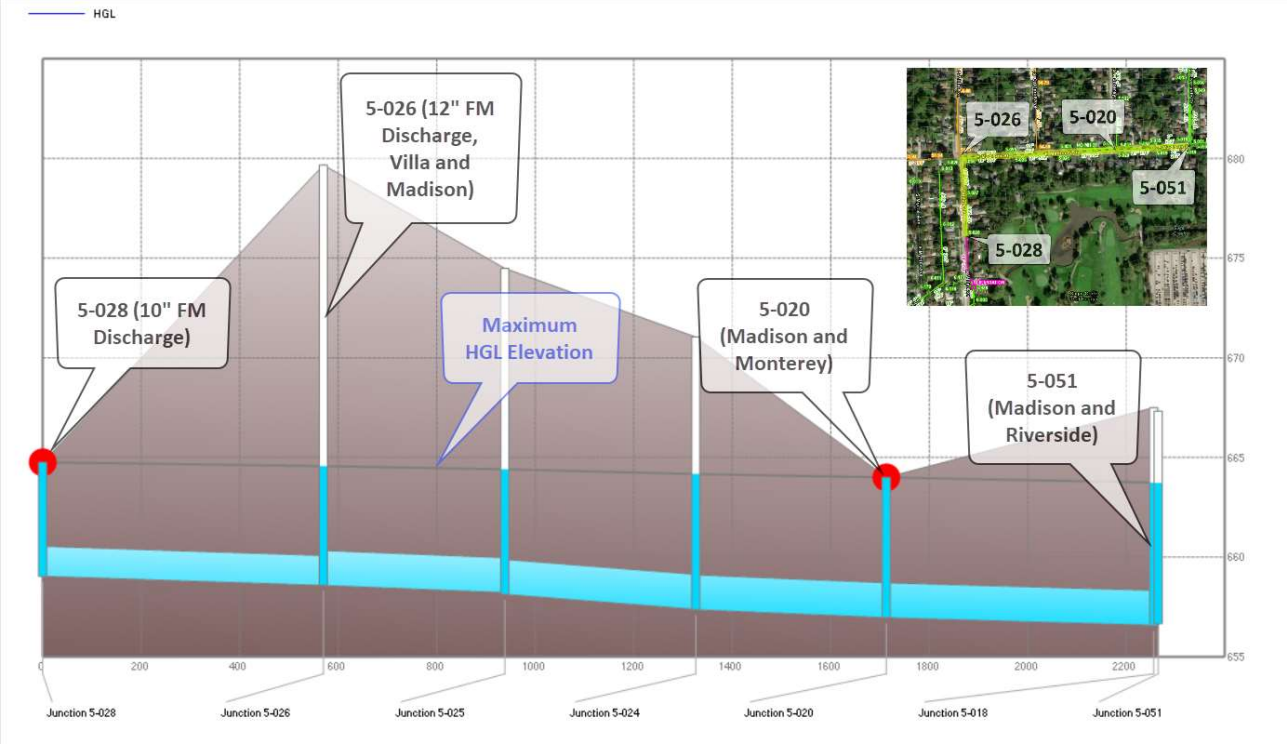


Figure 8 - Hydraulic Profile with Current Treatment Plant Set Points

The model also indicates that structures 5-020, 5-021, and/or 5-053, all located at the intersection of Madison and Monterey, may overflow or nearly overflow concurrent to SSO events at 5-028. Therefore, if structure 5-028 were bolted down to prevent overflows on Villa Avenue, the structures at Madison and Monterey would also need to be bolted to avoid relocating the SSO volume to this intersection. Bolting down all these structures would push surcharge levels higher downstream, with the hydraulic grade elevation nearly reaching the rims of the four structures at the intersection of Madison and Riverside (5-051, 5-050, 5-018, and 5-016). Structures further downstream along Riverside do not appear to be at risk of overtopping, but the system would be highly pressurized in such a scenario, putting high stress on the frames of bolted structures.

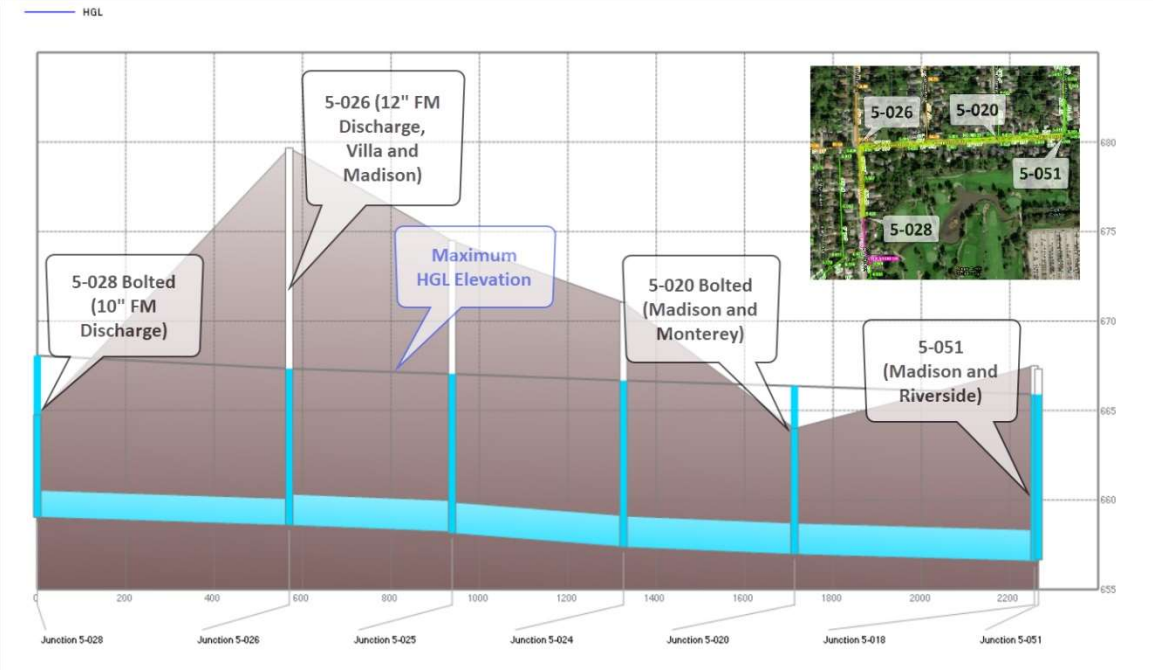


Figure 9 - Hydraulic Profile with Bolted Rims

Bolting downstream rims may also not eliminate SSO risk if pressurizing the downstream sewer elevated the risk of basement backups. While very little additional area is served by the Madison/Riverside interceptor downstream of the South Villa Lift Station, there is a gravity sewer that serves approximately 25 homes along Monterey north of Madison that ties into the interceptor at 5-020. The Village would need to confirm that houses along this block (outlined in red on Figure 10) are protected from basement backups by overhead sewer connections or other backflow prevention measures. Additionally, there are approximately 40 homes (outlined in yellow on Figure 10) connected to a local sewer on Riverside Drive flowing south toward Madison that would also be subjected to an increased albeit lower risk of basement backups if structure rims on Villa and Madison were bolted down.

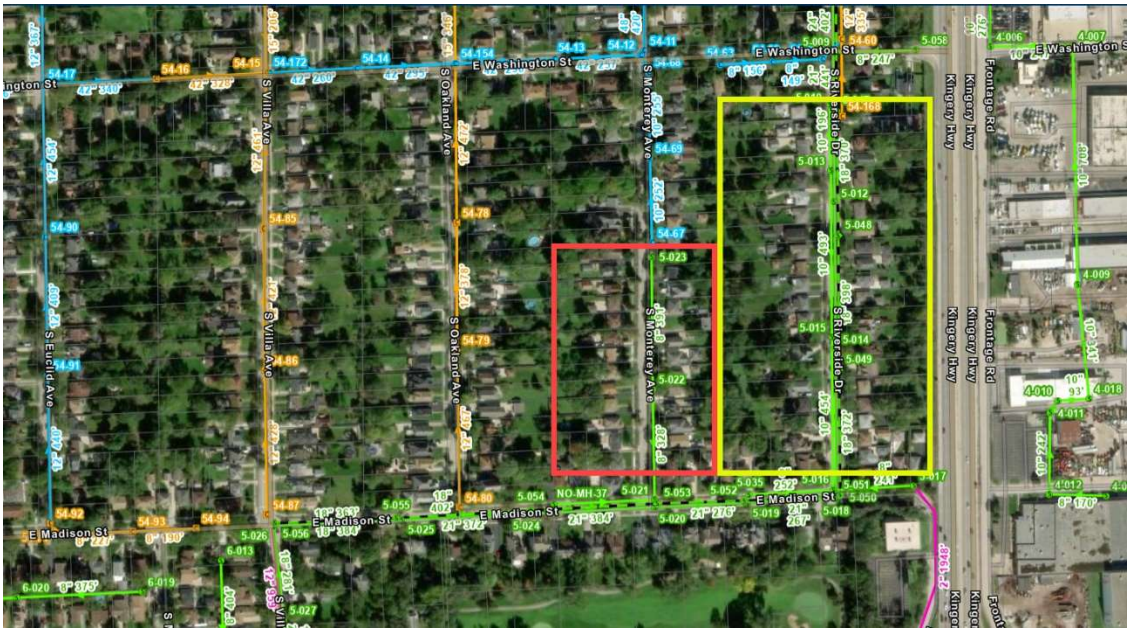


Figure 10 - Downstream Service Areas

Increasing the pumping capacity of South Villa Lift Station to the proposed 6.0 mgd to match the combined capacity of the 21-inch interceptor and 18-inch relief sewer generally results in an additional 1 to 2 feet of surcharge in the parallel sewers. In this scenario, shown on Figure 11, it is assumed that structure 5-028 and the structures at both the Madison-Monterey and Madison-Riverside intersections would be bolted. Compared to the South Villa Lift Station pumping at its existing capacity, the scenario with the capacity increased to 6.0 mgd would produce a similar but slightly higher risk of basement backups for connected homes along Monterey and Riverside and would put additional stress on bolted structures.

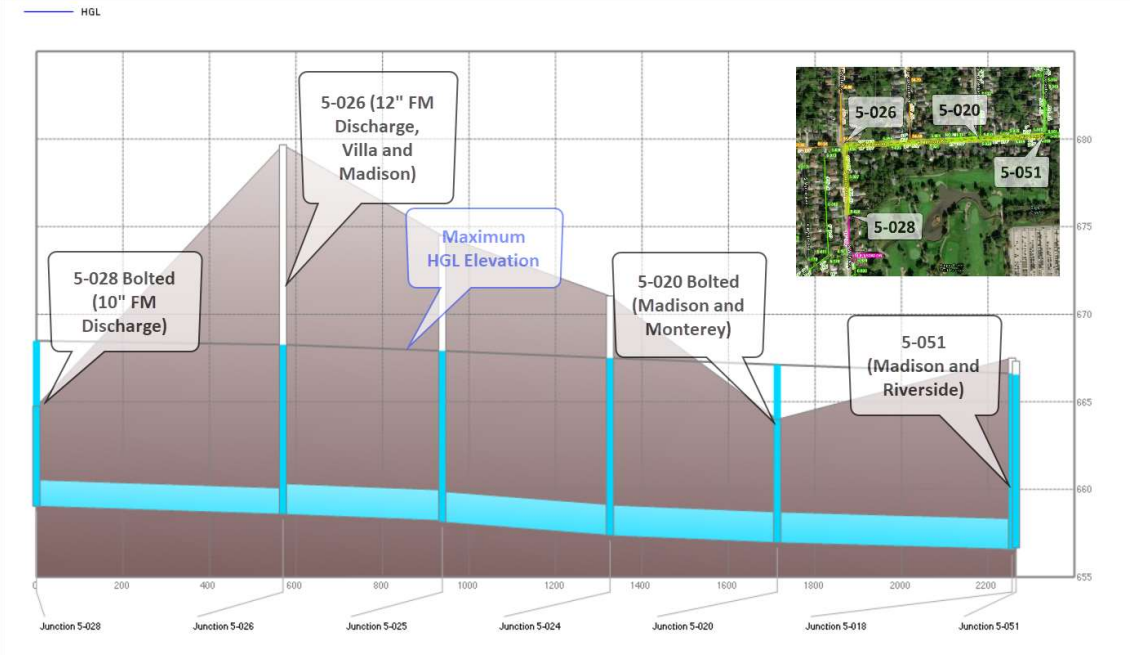


Figure 11 - Hydraulic Profile, South Villa Capacity Increased to 6.0 mgd

Some of the SSO risk in both the current and proposed scenarios could be offset by lowering the pump set points at both the WWFTF and SCSD facilities, if feasible. According to operational data gathered as part of the 2022 model analysis, influent sewers at both treatment facilities are submerged before full pumping capacity is utilized. Lowering of these set points would particularly benefit the upstream system in storm events of less than a 1-year recurrence interval when peak flows do not exceed the combined capacity of the two treatment facilities or only do so briefly. However, lower set points at the treatment facilities would only delay surcharging of the interceptor system in larger storm events when collection system flow rates exceed the treatment capacity for extended periods of time.

Increasing the South Villa Lift Station capacity to 6.0 mgd without any corresponding increase of downstream SSO risk is not feasible at the current treatment capacities. However, upsizing the station is possible if measures are taken to bolt down high-risk SSO structures, and houses along Monterey and Riverside north of Madison are protected from basement backups.

ALTERNATIVES FOR IMPROVEMENTS

If the downstream concerns raised in the previous section could be addressed, increasing the capacity of South Villa Lift Station to 6.0 mgd should be feasible without major structural changes to the station. Alternatives for upsizing pumps and potential force main replacement were considered.

Alternative 1 – Upsize Existing Chopper Pumps

The existing submersible pump (Pump 1) that discharges to the 10-inch force main has a capacity of approximately 2.4 mgd during high wet well conditions. At this flow rate, the velocity in the 10-inch

force main is approximately 6.8 feet per second (fps). As has been established, this flow rate exceeds the capacity of the 18-inch gravity outlet (1.9 mgd) from the discharge structure. While the hydraulic model indicates that this capacity deficit does not pose a major SSO risk in the absence of downstream restriction, increasing the discharge through the 10-inch force main is not considered an option.

The two existing chopper pumps, which discharge to the 12-inch force main, have a combined capacity of approximately 2.3 mgd in high wet well conditions when run in tandem. To achieve a station capacity of 6.0 mgd, the chopper pumps would need to be upgraded to pump 3.7 mgd when run together. In this scenario, the maximum velocity through the force main would increase from approximately 4.5 fps to 7.4 fps.

Alternative 2 – Replace 10-Inch Force Main and Pump 1

Rather than replacing the chopper pumps and leaving the 10-inch force main in service, the station capacity could be increased by upsizing Pump 1 to a capacity of 3.7 mgd and replacing the 10-inch force main. In this scenario, Pump 1 could remain a wet-weather pump, and the newer chopper pumps could remain in place.

The proposed 3.7 mgd capacity for Pump 1 would be nearly double the capacity of the 18-inch outlet from the existing discharge structure 5-028 and would flow at a velocity of 10.6 fps through a 10-inch pipe, exceeding the maximum design standard (10 fps) and potentially causing breaks in the existing force main. Therefore, the upsized wet-weather pump would require a new force main discharging further downstream at Villa and Madison where the parallel relief sewer system begins.

The new force main would likely be 14 inches in diameter, which would result in a 5.4 fps velocity when conveying 3.7 mgd. It would likely discharge to a new structure adjacent to 5-026 at Madison and Villa or to a modified 5-026, and the existing 10-inch force main would be abandoned.

CONCLUSIONS AND RECOMMENDATIONS

Previous modeling and hydraulic analysis indicated the potential for SSO reduction upstream of the South Villa Lift Station by increasing the station pumping capacity. However, further analysis raises significant concerns related to downstream SSO risks that may require major investment in basement backup prevention or treatment capacity improvements to mitigate.

Inspection and hydraulic analysis of the South Villa Lift Station confirms that the station operates to its intended design capacity, and no significant structural or operational issues were observed. Scaling and corrosion typical of an iron force main was observed on the interior walls of the 10-inch force main while observation of the 12-inch force main was limited to the exterior walls. However, hydraulic calculations did not indicate unexpected head losses that would normally accompany major structural issues like breaks or significant narrowing from corrosion.

Modest capacity improvements to the lift station, as were evaluated in this study, could be achieved without major expansion or disruption to the station site. It is more likely that a future capacity improvement would require replacement of the existing 10-inch force main and/or modifications to the existing diversion structure (5-026) at Villa and Madison.

However, due to SSO risks that are already present in the downstream gravity sewer system—currently observed as SSOs at the discharge of the 10-inch force main near 821 S. Villa (structure 5-028)— the capacity of the South Villa Lift Station cannot currently be increased without exacerbating these risks. The SSOs are generally not a function of downstream pipe capacity but rather treatment capacity limitations that surcharge the Madison/Riverside interceptor and relief system before reaching full-pipe capacity. Efforts to prevent SSOs from occurring at the 10-inch force main discharge structure by bolting down the lid could increase the risk of SSOs and/or basement backups near Madison and Monterey and the Madison and Riverside intersection as well.

Minor reductions in downstream SSO risk may be achieved by lowering set points for pump operation at the SCSD and WWFTF treatment facilities, but it is not clear whether such modifications are feasible or necessary, as they would only provide a temporary buffer against SSOs in large storm events when tributary flows exceed treatment capacity for extended periods. Any major reduction in SSO risk associated with surcharging of the interceptor and relief system would require additional treatment capacity, which is not considered feasible or practical relative to the scale of public impact currently posed by SSOs near Sugar Creek.

Given the obstacles related to mitigating downstream risks, it is not recommended that the South Villa Lift Station capacity be increased at this time. The Village should continue to optimize the use of the WWFTF in wet-weather events to lower hydraulic grades within the separate sanitary and relief sewer system, and continuous monitoring at critical diversion structures would aid in this effort. In addition, the Village should inquire whether SCSD is able to lower set points for wet-weather pumping operations without major impacts to treatment processes.

In addition, the Village should continue to invest in collection system solutions upstream of South Villa Lift Station to reduce the frequency of SSOs near Sugar Creek. The two primary options available to the Village, as outlined in the 2022 hydraulic modeling report, are 1) substantial I/I reduction, primarily via lateral rehabilitation and/or footing drain removal, and 2) wet-weather flow storage at the South Villa Lift Station.

In summary:

- Field investigation and hydraulic analysis of the South Villa Lift Station confirmed that it is generally in good condition and operating as designed.
- The downstream gravity interceptor and relief sewer system has more capacity than the lift station, as was previously determined.
- However, treatment capacity limitations cause the interceptor and relief system to surcharge, leading to SSOs at the 10-inch force main discharge near 821 S. Villa, which could migrate downstream near Madison and Monterey were the discharge structure lid bolted down.
- Increasing the lift station capacity without any corresponding increase in treatment capacity and/or significant safeguards against SSOs and basement backups near the Madison and Monterey and the Madison and Riverside intersections would incur additional risk of downstream SSOs. These risks would likely outweigh the benefits of reducing the frequency of SSOs upstream of the lift station near Sugar Creek.

- It is therefore recommended that the Village not increase the South Villa Lift Station pumping capacity at this time but instead consider investing in lateral rehabilitation and footing drain removal in the lift station service area and/or construction of a wet-weather storage tank at the lift station.
- The Village should also seek to optimize the use of the WWFTF to minimize the risk of SSOs downstream of South Villa Lift Station. Additional permanent level monitors at key diversion structures would assist with this effort.

It has been a pleasure working with the Village on this study, and we look forward to assisting with follow-up efforts in any way we can.

Sincerely,

RJN Group, Inc.



Vincent Bergl, P.E.
Project Engineer

APPENDIX C

MANHOLE INSPECTION SUMMARY REPORT

VILLA PARK, ILLINOIS

INTRODUCTION

The Village of Villa Park (Village) is a municipality in DuPage County in northeastern Illinois. In 2007 and 2008, the Village with assistance from RJN developed a ten-year Sanitary Sewer Master Plan recommending extensive condition assessment and rehabilitation of the sanitary sewer system within the Village's separated sewer areas (Basins 1 through 9). In the ensuing years, the Village has implemented some of these recommendations and addressed other needs for system improvement.

In 2019, the Village began manhole inspections in the North Villa and Industrial Triangle areas. In 2022, manhole inspections were completed for the North Villa area. In 2023, the Village continued manhole inspections in the North and South Villa areas to identify additional sources of I/I prior to updating the Master Plan. This report summarizes the investigations, results, and rehabilitation recommendations from manhole inspections between 2019 and 2023. Exhibit C-1 in Attachment C shows the study areas for each year of manhole inspections.

INVESTIGATIONS AND RESULTS

The SSES performed for this study used manhole inspection to identify sources of I/I (defects). The following details the investigations performed and results of this study. Details of all manhole inspection data collected can be accessed through RJN's web portal Clarity® at rjn.com/clarity. Clarity's intuitive user interface can be used to view photos and videos, visualize data, and explore detailed investigation results.

MANHOLE INSPECTION

Field Data Collection

Manhole inspections are used to collect measurements, record location details, verify or update existing pipe connectivity, and perform condition assessments. Surface manhole inspections involve assessing all the parts of the structure that are visible from the surface, as shown in Figure 1. Remote camera inspections were also performed, which involve assessing all the parts of the structure, including taking up-pipe photos and more detailed photos of defects with the use of a pole camera.

A minimum of four photos were taken per inspection: an area photo displaying the location of the manhole, a photo of the manhole cover, a photo of the worst part of the frame taken at a 45-degree angle from the ground, and a topside photo of the manhole where north is at the top of the image. Additional photos may be taken for significant defect observations.

Figure 1 - Manhole Diagram with Related Defects

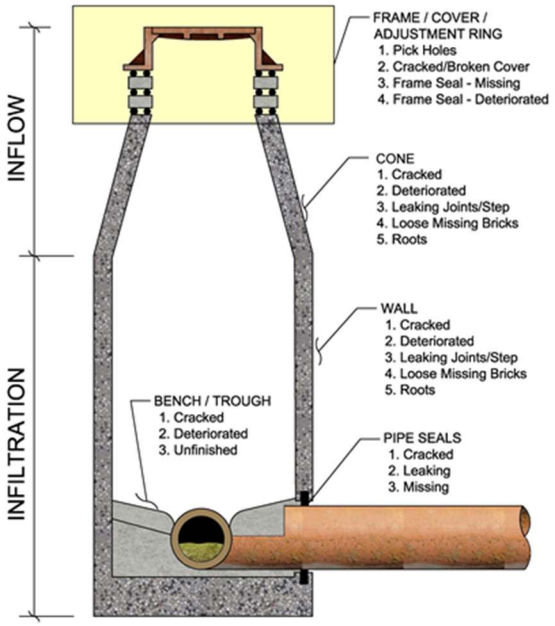


Figure 2 - Cone/Wall Deterioration (MH 3-137)



Data was recorded on a mobile data collection unit with mapping grade GPS. Manholes were inspected from April 24, 2019 through February 9, 2024. 515 manholes were visited. 308 manholes had surface inspections performed, and 196 had remote camera inspections performed. In addition to the two (2) structures not inspected in 2023, nine (9) structures were not inspected in 2019. Of the remaining nine (9) manholes, three (3) were not found, three (3) were buried, two (2) were seized, and one (1) was surcharged. It is recommended to locate and re-inspect these manholes. Maps of manhole inspection locations and statuses from 2019 to 2023 are given in Exhibits C-2 through C-19 in Attachment C.

Manhole Inspection Results

The manhole inspections revealed varying manhole defects, the most prevalent of which were frame seal and adjustment defects. Other identified defects include defective covers, root infiltration, open pick hole covers, cone defects, wall and wall joint defects, pipe seal and wall/bench joint defects, cross bores, defective benches and troughs, as well as H_2S corrosion. Table 1 shows a summary of the manhole inspection results from 2019 to 2023, along with the estimated I/I flows associated with the defects found. All flow values are estimated for a standard 1-year, 1-hour rain event. The total I/I flow identified contributing to the system from the manholes inspected is 704,448 gallons per day (gpd).

Table 1 - Manhole Inspection Defect Summary

Manhole Defect	Quantity (MH)	Est. Unit Flow (gpm)	Est. Total Flow (gpd)
Cover Defect	7	1.0	10,080
Cover Vented/Pick Hole	122	1.0	175,680
Frame/Frame Seal/Adjustments Defect	305	0.5	219,600
Cone Defect	72	0.5	51,840
Wall/Wall Joint Defect	225	0.5	162,000
Pipe Seal or Wall/Bench Joint Defect[1]	125	0.2	36,000
Defective Bench and Trough	114	0.3	49,248
O&M Issue	65	-	-
Frame Corroded/Pitted	15	-	-
H_2S Corrosion	6	-	-
Total	**1056**		**704,448**

1. Unit flow could be significantly more.

GIS UPDATES

During the 2023 field inspections, RJN identified four (4) locations where the field configuration differed from the Village GIS. These locations were documented by the field staff. The reports identifying each location are contained in Attachment A. When discrepancies between the field and GIS are identified, it is important that the Village update the GIS to match the field conditions. It is recommended that the Village update their GIS to match the field conditions. GIS updates will be submitted within the electronic deliverable. GIS map updates found during the 2019 and 2022 field inspections were included in the corresponding year's report and incorporated into the Village GIS.

CONCLUSIONS AND RECOMMENDATIONS

CONCLUSIONS

The manhole inspections completed between 2019 and 2023 in preparation for updating the Master Plan identified a significant number of defects contributing I/I to the system. The highest concentration of manhole defects and potential I/I sources was observed in the North Villa and Industrial Triangle basins during the 2019 survey, contributing approximately 44% of the estimated total I/I.

With the results and recommendations of this study, the District will be able to prioritize and manage future manhole rehabilitation work and update the Sanitary Sewer Master Plan.

Figure 3 - Wall Joint I/I (MH 1-191)



RECOMMENDATIONS

The manhole rehabilitation recommendations include replace bolts in cover, replace cover, replace frame and bolted cover, replace frame and cover, seal and adjust frame, internal chimney seal, structural lining, grout wall joints, grout cone, grout bottom 18", full curtain grout, repair bench and trough, replace bench and trough, epoxy coating, replace manhole, uncover/raise buried manhole, and clean manhole. The composite recommendations for a given structure can include one or more individual recommendations. Individual manhole rehabilitation recommendations can be found in Attachment C as well as in Attachment C in Exhibits C-20 through C-37.

All inspected manholes were assigned a rehab rating of one (1) through five (5), with one meaning no rehab needed, and five meaning immediate rehab needed. The defects within structures which received a rating of four (4) or higher will be considered and referred to as first priority. The summary and cost estimate of rehabilitation for the first priority defects are presented in Table 2.

Table 2 - First Priority Manhole Rehabilitation Recommendations

	Recommended Rehabilitation	Unit	Quantity	Unit Cost	Total Cost
Manhole Rehabilitation					
	Replace Cover	Each	24	$420	$10,080
Excavate	Replace Frame and Cover (Non-Paved)[1]	Each	13	$3,100	$40,300
Excavate	Replace Frame and Cover (Paved)[1]	Each	2	$3,400	$6,800
Excavate	Replace Frame & Bolted Cover (Non-Paved)[1]	Each	1	$2,800	$2,800
Excavate	Seal and Adjust Frame (Non-Paved)[1]	Each	4	$2,800	$11,200
Excavate	Seal and Adjust Frame (Paved)[1]	Each	11	$3,300	$36,300
Excavate	Replace Manhole(Paved)[1,2]	Each	1	$16,000	$16,000
Trenchless	Internal Chimney Seal	Each	2	$1,000	$2,000
Trenchless	Structural Lining	Vert Ft	519	$300	$155,700
Trenchless	Grout Wall Joints	Each Joint	3	$720	$2,160
Trenchless	Grout Bottom 18"	Each	11	$1,300	$14,300
Trenchless	Full Curtain Grout	Each	16	$2,900	$46,400
Trenchless	Repair Bench and Trough	Each	7	$1,200	$8,400
Trenchless	Replace Bench and Trough	Each	4	$3,000	$12,000
Trenchless	Plug Pipe with Mechanical Plug and Concrete Cap	Each	1	$475	$475
				Construction Cost Sub-Total	**$354,900**
	Contingency	20% of Sub-Total			$71,000
	Engineering Design and Construction Cost Estimate[3]	30% of Construction Cost			$127,800
				First Priority Rehabilitation Cost Estimate Total	**$553,700**

1. Includes external chimney seal.
2. Cost of new manhole is dependent on the size, type, and depth. Added costs related to manhole location, access, nearby utilities, lateral connections, and unique obstacles are not included.
3. Assumes part-time construction observation.

Table 3 - Additional Priority Manhole Rehabilitation Recommendations

	Recommended Rehabilitation	Unit	Quantity	Unit Cost	Total Cost
Manhole Rehabilitation					
	Replace Bolts in Cover	Each	2	$320	$640
	Replace Cover	Each	46	$420	$19,320
Excavate	Replace Frame and Cover (Non-Paved)[1]	Each	21	$3,100	$65,100
Excavate	Replace Frame and Cover (Paved)[1]	Each	16	$3,400	$54,400
Excavate	Replace Frame & Bolted Cover (Non-Paved)[1]	Each	5	$2,800	$14,000
Excavate	Replace Frame & Bolted Cover (Paved)[1]	Each	4	$3,600	$14,400
Excavate	Seal and Adjust Frame (Non-Paved)[1]	Each	8	$2,800	$22,400
Excavate	Seal and Adjust Frame (Paved)[1]	Each	60	$3,300	$198,000
Excavate	Replace Manhole(Paved)[1,2]	Each	1	$16,000	$16,000
Trenchless	Internal Chimney Seal	Each	10	$1,000	$10,000
Trenchless	Structural Lining	Vert Ft	1279	$300	$383,700
Trenchless	Grout Cone	Each	7	$1,000	$7,000
Trenchless	Grout Wall Joints	Each Joint	18	$720	$12,960
Trenchless	Grout Bottom 18"	Each	39	$1,300	$50,700
Trenchless	Full Curtain Grout	Each	37	$2,900	$107,300
Trenchless	Repair Bench and Trough	Each	31	$1,200	$37,200
Trenchless	Replace Bench and Trough	Each	23	$3,000	$69,000
Trenchless	Reconstruct Bench and Trough	Each	1	$1,500	$1,500
Trenchless	Epoxy Coating	Vert Ft	1	$360	$360
				Construction Cost Sub-Total	**$1,064,100**
	Contingency	20% of Sub-Total			$212,800
	Engineering Design and Construction Cost Estimate[3]	30% of Construction Cost			$383,100
				Additional Priority Rehabilitation Cost Estimate Total	**$1,660,000**

1. Includes external chimney seal.
2. Cost of new manhole is dependent on the size, type, and depth. Added costs related to manhole location, access, nearby utilities, lateral connections, and unique obstacles are not included.
3. Assumes part-time construction observation.

The summary and cost estimate of the additional priority rehabilitation is presented in Table 3. The cost estimate includes the rehabilitation and costs associated with completing the remaining rehabilitation recommendations (rehabilitation priority 2-3). The total cost of all recommended rehabilitation is $2.2 million. Costs presented should be used for planning and budgetary purposes only. If the rehabilitation requires digging a trench, it is classified as "excavate" in the following tables. Otherwise, they are classified as "trenchless" rehabilitation. The unit costs listed below are construction costs only, and the contingency and engineering design are added as estimates of the percentage of the total construction cost. Completing all first priority repairs simultaneously and including the remaining repairs will provide economy of scale and more competitive bids.

Table 4 - Rehabilitation Cost Summary

Recommended Rehabilitation		Cost
First Priority Rehabilitation		
Sanitary Manholes		$354,900
Contingency, Design, and Construction[1]		$198,800
	Sub-Total	$553,700
Additional Recommendations		
Sanitary Manholes		$1,064,100
Contingency, Design, and Construction[1]		$595,900
	Sub-Total	$1,660,000
	Total	**$2,213,700**

1. Assumes part-time construction observation.

RECOMMENDATION SUMMARY

It is recommended to prioritize addressing the highest priority manholes. This is based on the rehabilitation priority assigned to each manhole through a comprehensive assessment of all defects in the manhole. Additional recommendations are recommended to be addressed in the future. The summary of costs for all recommended rehabilitation is displayed in Table 4. The following recommendations were made based on the findings of the investigations:

First Priority Recommendations

Public Sector

- Incorporate the 101 first priority manholes into a rehabilitation plan.

Additional Recommendations

- Incorporate the remaining manhole rehabilitation recommendations into the future rehabilitation plan.
- Access and inspect the nine (9) remaining inaccessible manholes from the 2019 inspections.

2024 PROGRAM

SSES work often requires follow-up investigations, depending on the results of the initial investigations. For example, the ability to perform manhole inspections or CCTV inspection is dependent on the structures being easily located and not obstructed. In circumstances wherein field crews cannot complete investigations, it is recommended that these investigations are revisited once the structures are located or unobstructed. Follow-up SSES recommendations are important in preparing comprehensive rehabilitation recommendations for the study areas.

It is recommended to incorporate the 2019 – 2023 manhole inspection rehabilitation recommendations into the updated Village Master Plan and begin work with rehabilitating the highest priority manholes. Follow-up flow monitoring should be completed for each basin after rehabilitation is completed to assess I/I reduction and future work needs.

LIST OF ATTACHMENTS

Attachment A – Exhibits

Exhibit C-1: Manhole Inspections by Year

Exhibits C-2 to C-19: Manhole Inspection Status

Exhibits C-20 to C-37: Manhole Rehabilitation Recommendations

Attachment B – Manhole Recommendations Table

ATTACHMENT A - EXHIBITS

Manhole Inspections - Completed 2019
Industrial Triangle

Manhole Inspections - Completed 2023
North Villa

Manhole Inspections - Completed 2022
North Villa

Manhole Inspections - Completed 2023
South Villa

2019 Manhole Inspection Study Area
2022 Manhole Inspection Study Area
2023 Manhole Inspection Study Area

0 1,250 2,500
Feet

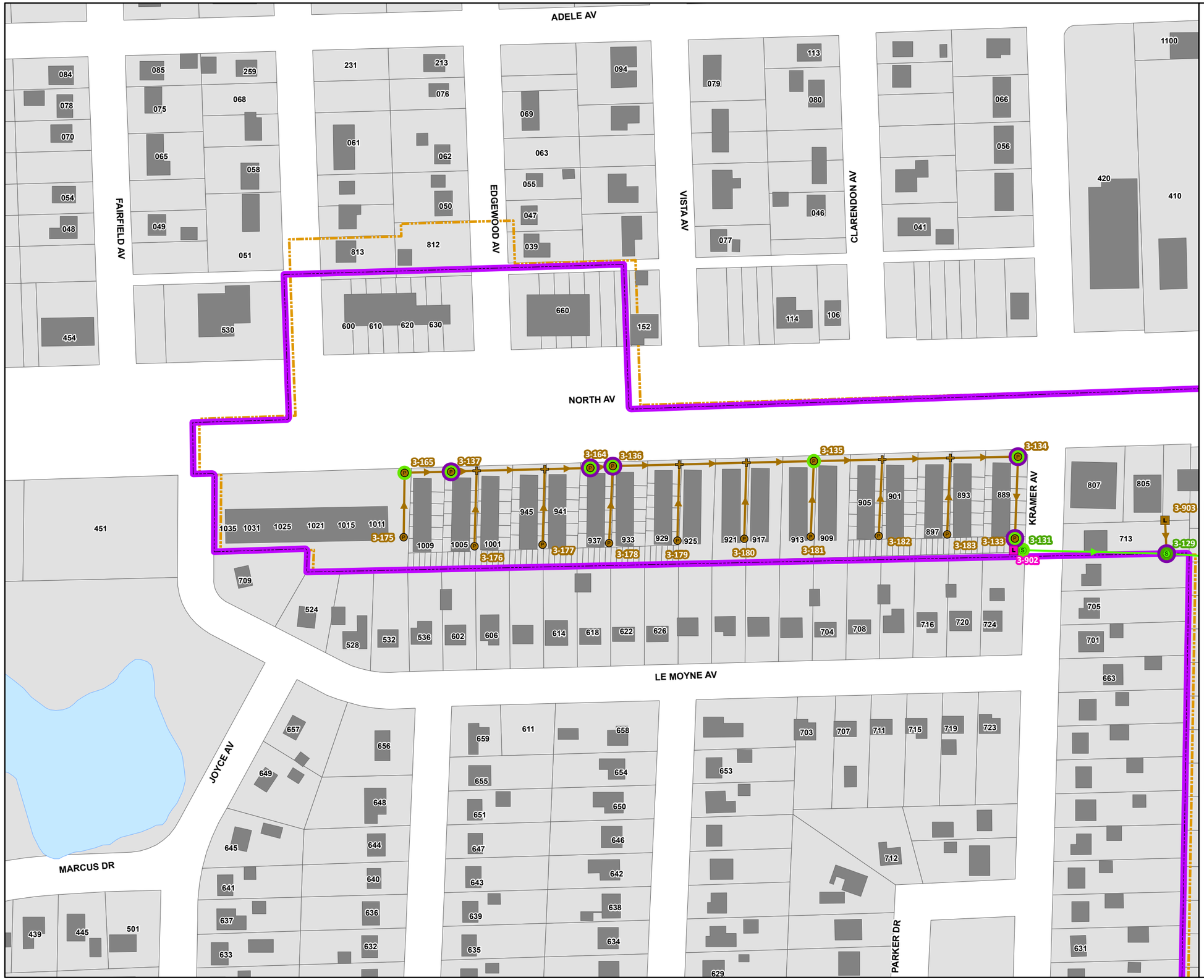
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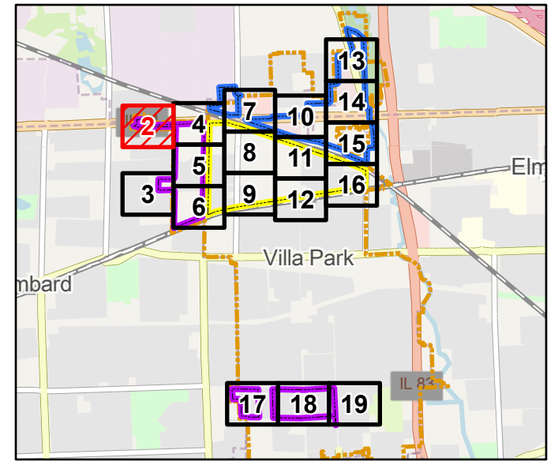
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Combined Manhole
CSO Manhole
Sanitary Manhole
Separated Manhole
SSO Manhole
WWFTF Outflow Manhole
Combined Sewer
CSO
Sanitary Sewer
Separated Sewer
SSO
WWFTF Outflow
Force Main
Siphon
Private Sanitary Sewers

Village of Villa Park, IL
2023 Master Plan
Exhibit C-1 - Manhole Inspections by Year
May 2024

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Manhole Inspection Status

- Surface Inspection
- Remote Inspection
- Not Opened
- Surcharged/Debris
- No Access
- Buried or Marked
- Not Found

- Manhole Rehab Rating = 4
- Manhole Rehab Rating = 5

- Combined Manhole
- CSO Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- WWFTF Outflow Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Outfall
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- CSO
- Sanitary Sewer
- Separated Sewer
- SSO
- WWFTF Outflow
- Force Main
- Siphon
- Private Sanitary Sewer
- Building
- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

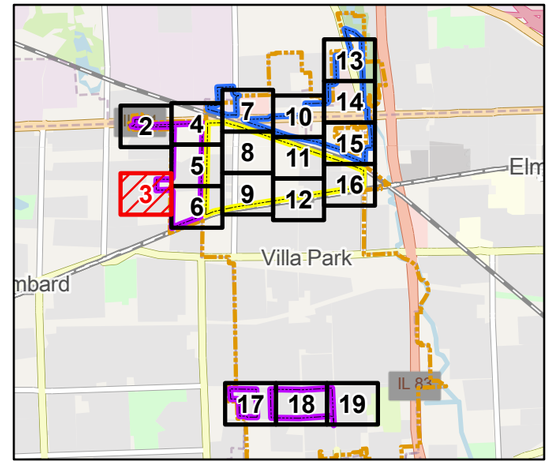
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2023 Master Plan
Exhibit C-2 - Manhole Inspection Status
May 2024





Manhole Inspection Status

- Surface Inspection
- Remote Inspection
- Not Opened
- Surcharged/Debris
- No Access
- Buried or Marked
- Not Found

- Manhole Rehab Rating = 4
- Manhole Rehab Rating = 5

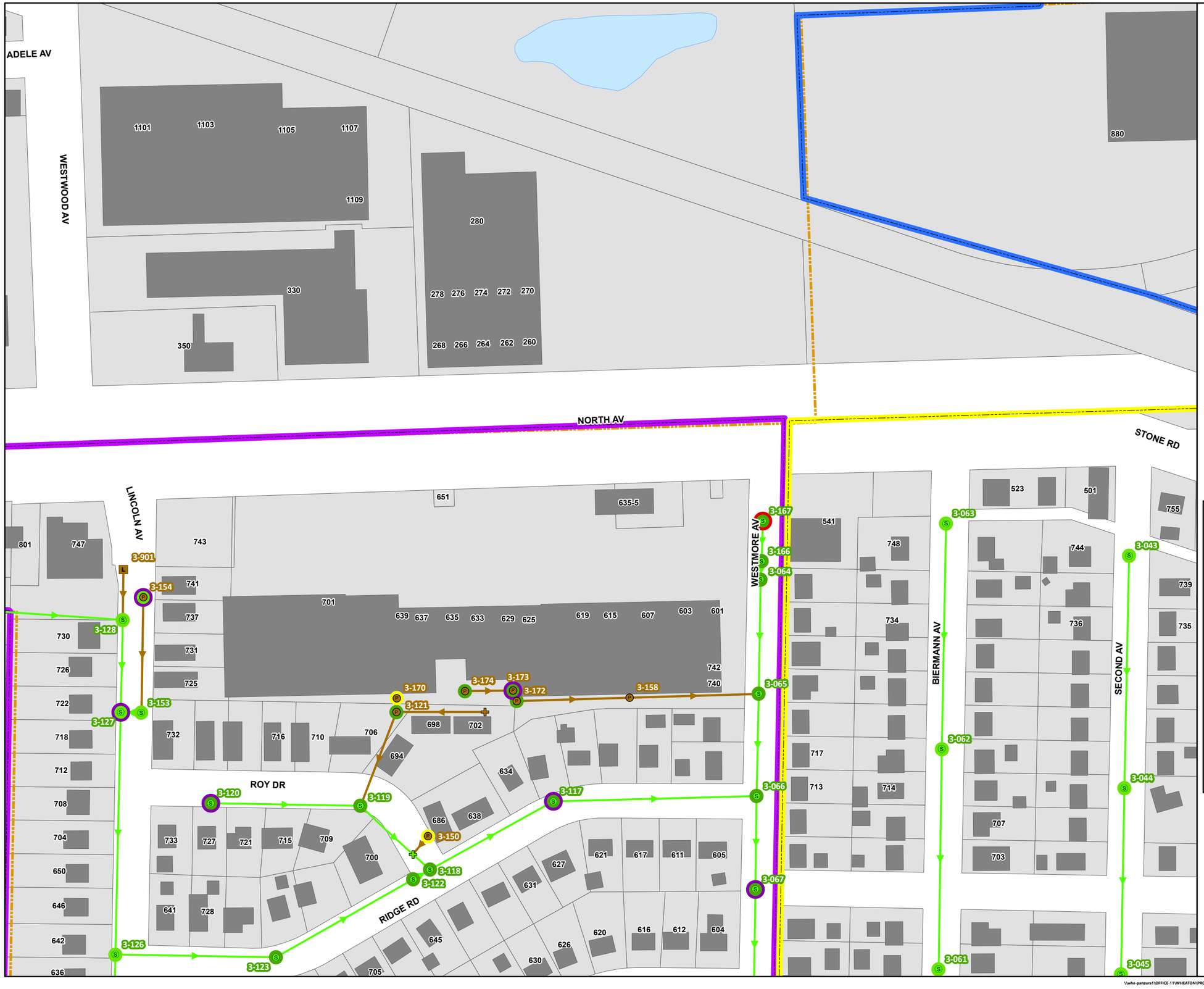
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- Sanitary Manhole
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- WWFTF Outflow Manhole
- Diversion Structure
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- Outfall
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- CSO
- Sanitary Sewer
- Separated Sewer
- SSO
- WWFTF Outflow
- Force Main
- Siphon
- Private Sanitary Sewer
- Building
- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

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Village of Villa Park, IL
2023 Master Plan
Exhibit C-3 - Manhole Inspection Status
May 2024



Manhole Inspection Status

- Surface Inspection
- Remote Inspection
- Not Opened
- Surcharged/Debris
- No Access
- Buried or Marked
- Not Found

- Manhole Rehab Rating = 4
- Manhole Rehab Rating = 5

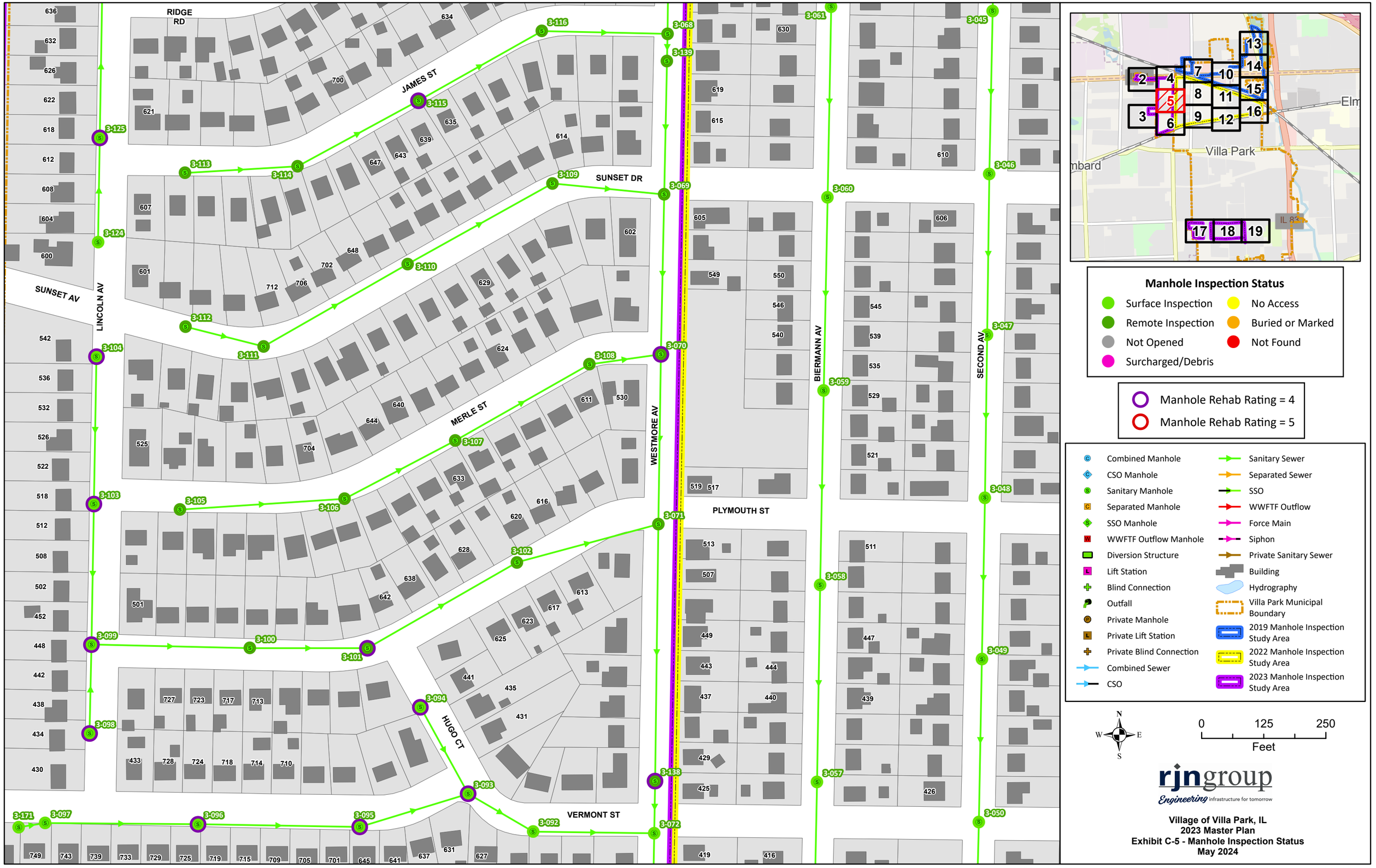
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- Outfall
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
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- Sanitary Sewer
- Separated Sewer
- SSO
- WWFTF Outflow
- Force Main
- Siphon
- Private Sanitary Sewer
- Building
- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

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Village of Villa Park, IL
2023 Master Plan
Exhibit C-4 - Manhole Inspection Status
May 2024



Manhole Inspection Status

- Surface Inspection
- Remote Inspection
- Not Opened
- Surcharged/Debris
- No Access
- Buried or Marked
- Not Found

- Manhole Rehab Rating = 4
- Manhole Rehab Rating = 5

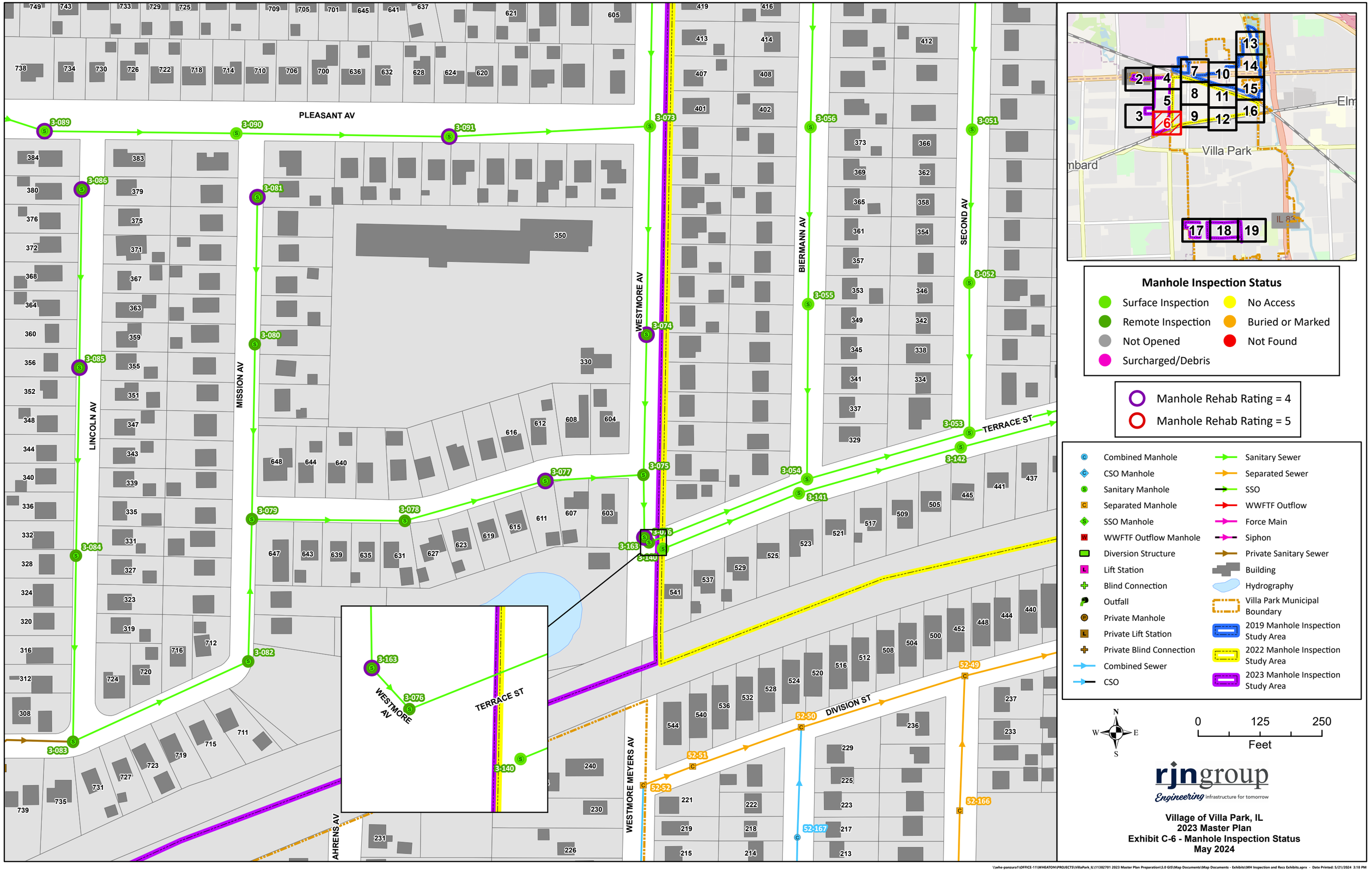
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- WWFTF Outflow Manhole
- Diversion Structure
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- Outfall
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- CSO
- Sanitary Sewer
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- SSO
- WWFTF Outflow
- Force Main
- Siphon
- Private Sanitary Sewer
- Building
- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

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Feet

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Village of Villa Park, IL
2023 Master Plan
Exhibit C-5 - Manhole Inspection Status
May 2024



Manhole Inspection Status

- Surface Inspection
- Remote Inspection
- Not Opened
- Surcharged/Debris
- No Access
- Buried or Marked
- Not Found

- Manhole Rehab Rating = 4
- Manhole Rehab Rating = 5

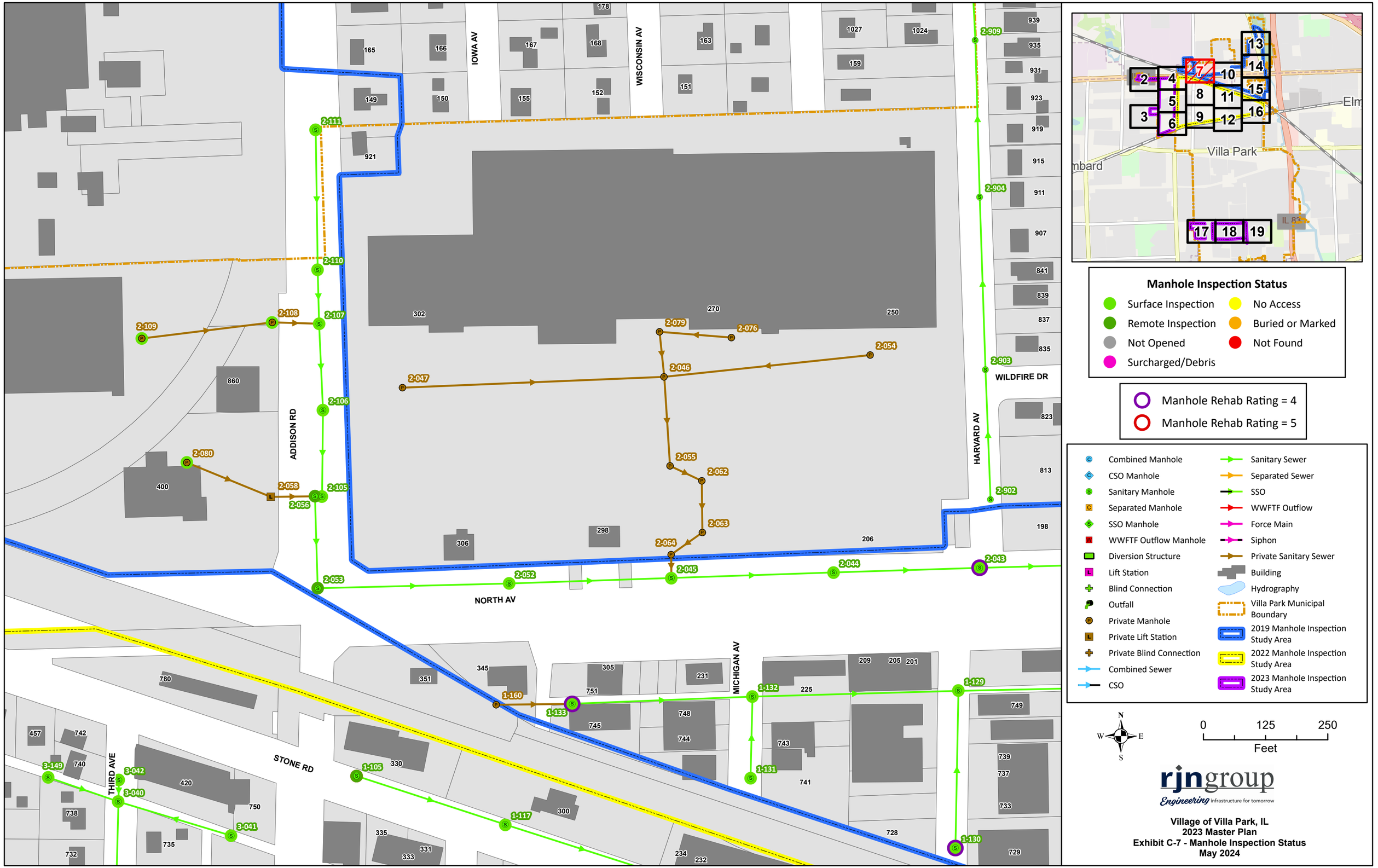
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- SSO Manhole
- WWFTF Outflow Manhole
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- SSO
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- Force Main
- Siphon
- Private Sanitary Sewer
- Building
- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

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Village of Villa Park, IL
2023 Master Plan
Exhibit C-6 - Manhole Inspection Status
May 2024



Manhole Inspection Status

- Surface Inspection
- Remote Inspection
- Not Opened
- Surcharged/Debris
- No Access
- Buried or Marked
- Not Found

- Manhole Rehab Rating = 4
- Manhole Rehab Rating = 5

- Combined Manhole
- CSO Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- WWFTF Outflow Manhole
- Diversion Structure
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- Blind Connection
- Outfall
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- Private Blind Connection
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- Building
- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

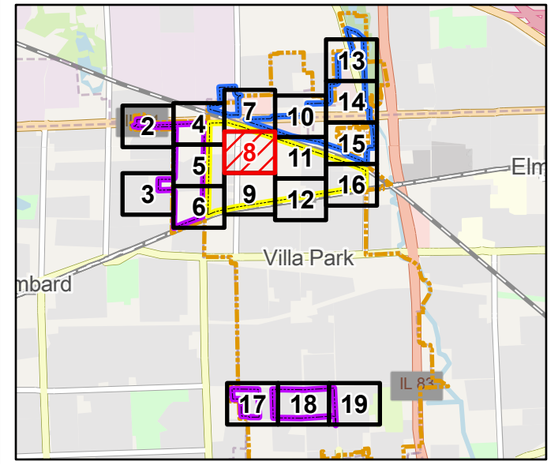
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Village of Villa Park, IL
2023 Master Plan
Exhibit C-7 - Manhole Inspection Status
May 2024





Manhole Inspection Status

- Surface Inspection
- Remote Inspection
- Not Opened
- Surcharged/Debris
- No Access
- Buried or Marked
- Not Found

- Manhole Rehab Rating = 4
- Manhole Rehab Rating = 5

- Combined Manhole
- CSO Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
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- 2023 Manhole Inspection Study Area

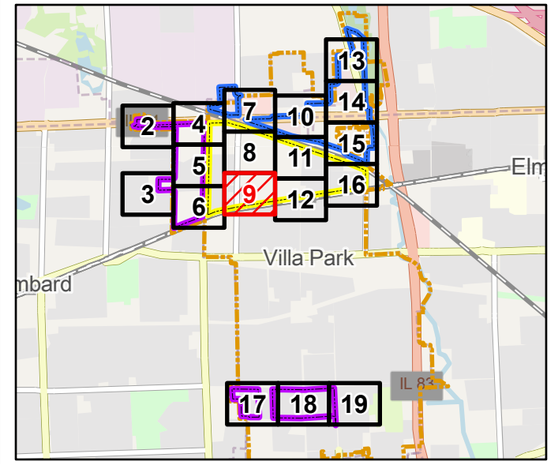
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Village of Villa Park, IL
2023 Master Plan
Exhibit C-8 - Manhole Inspection Status
May 2024





Manhole Inspection Status

- Surface Inspection
- Remote Inspection
- Not Opened
- Surcharged/Debris
- No Access
- Buried or Marked
- Not Found

- Manhole Rehab Rating = 4
- Manhole Rehab Rating = 5

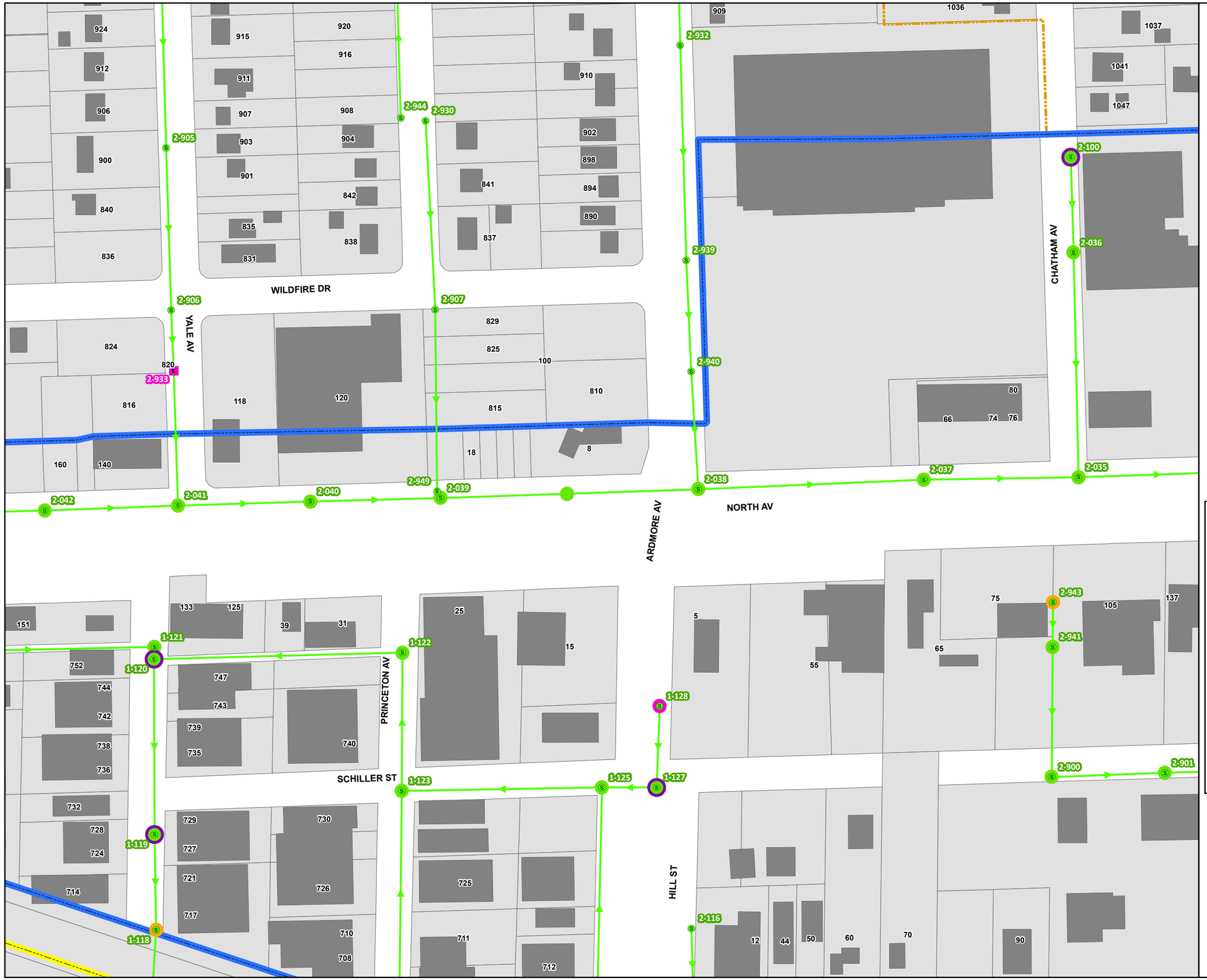
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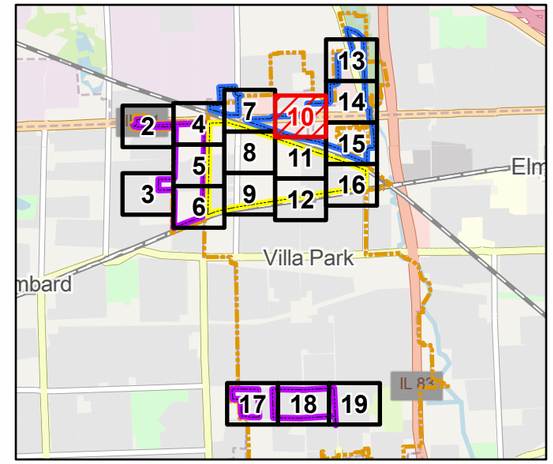
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Village of Villa Park, IL
2023 Master Plan
Exhibit C-9 - Manhole Inspection Status
May 2024





Manhole Inspection Status

- Surface Inspection
- Remote Inspection
- Not Opened
- Surcharged/Debris
- No Access
- Buried or Marked
- Not Found

- Manhole Rehab Rating = 4
- Manhole Rehab Rating = 5

- Combined Manhole
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- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

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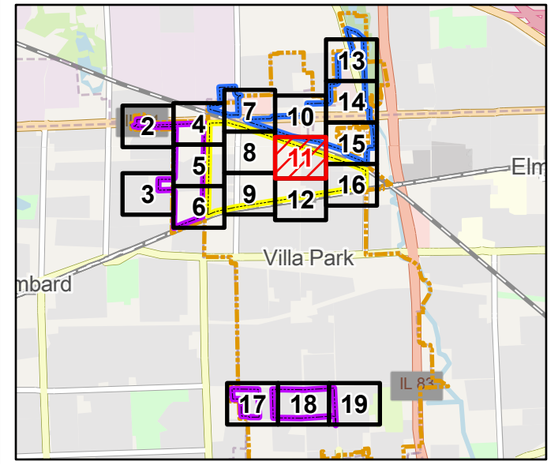
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Village of Villa Park, IL
2023 Master Plan
Exhibit C-10 - Manhole Inspection Status
May 2024

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Manhole Inspection Status

- Surface Inspection
- Remote Inspection
- Not Opened
- Surcharged/Debris
- No Access
- Buried or Marked
- Not Found

- Manhole Rehab Rating = 4
- Manhole Rehab Rating = 5

- Combined Manhole
- CSO Manhole
- Sanitary Manhole
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- SSO Manhole
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- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

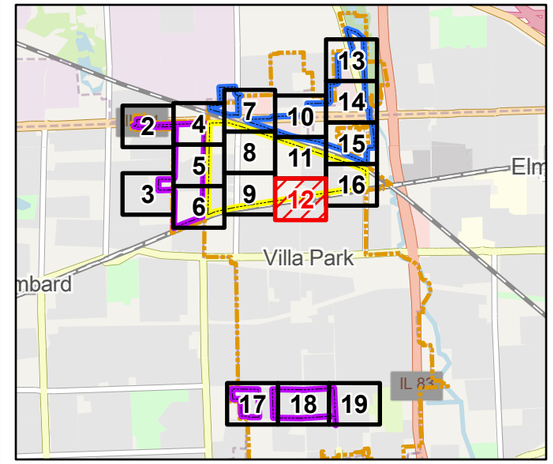
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Village of Villa Park, IL
2023 Master Plan
Exhibit C-11 - Manhole Inspection Status
May 2024





Manhole Inspection Status

- Surface Inspection
- Remote Inspection
- Not Opened
- Surcharged/Debris
- No Access
- Buried or Marked
- Not Found

- Manhole Rehab Rating = 4
- Manhole Rehab Rating = 5

- Combined Manhole
- CSO Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- WWFTF Outflow Manhole
- Diversion Structure
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- Private Lift Station
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- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

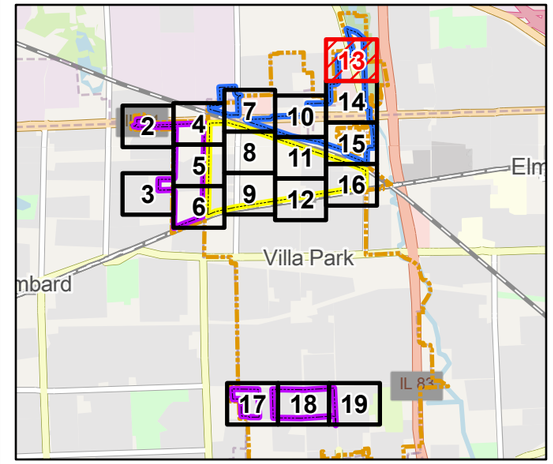
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Village of Villa Park, IL
2023 Master Plan
Exhibit C-12 - Manhole Inspection Status
May 2024





Manhole Inspection Status

- Surface Inspection
- Remote Inspection
- Not Opened
- Surcharged/Debris
- No Access
- Buried or Marked
- Not Found

- Manhole Rehab Rating = 4
- Manhole Rehab Rating = 5

- Combined Manhole
- CSO Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- WWFTF Outflow Manhole
- Diversion Structure
- Lift Station
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- Private Blind Connection
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- SSO
- WWFTF Outflow
- Force Main
- Siphon
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- Building
- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

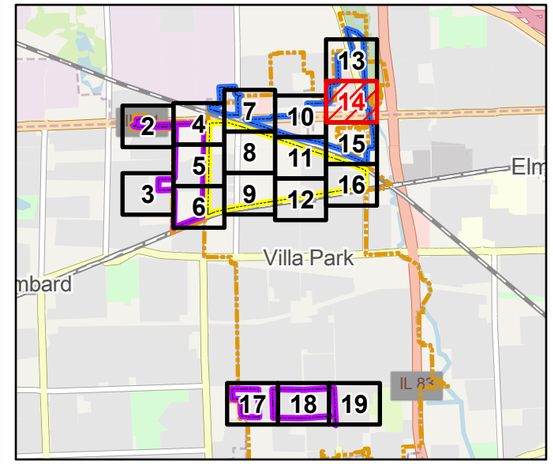
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Village of Villa Park, IL
2023 Master Plan
Exhibit C-13 - Manhole Inspection Status
May 2024





Manhole Inspection Status

- Surface Inspection
- Remote Inspection
- Not Opened
- Surcharged/Debris
- No Access
- Buried or Marked
- Not Found

- Manhole Rehab Rating = 4
- Manhole Rehab Rating = 5

- Combined Manhole
- CSO Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- WWFTF Outflow Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Outfall
- Private Manhole
- Private Lift Station
- Private Blind Connection
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- WWFTF Outflow
- Force Main
- Siphon
- Private Sanitary Sewer
- Building
- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

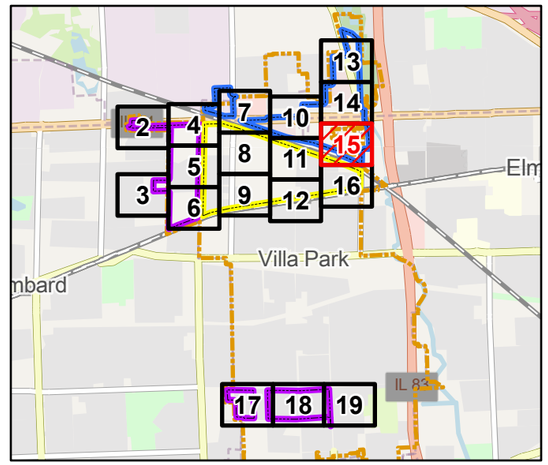
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Feet

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Village of Villa Park, IL
2023 Master Plan
Exhibit C-14 - Manhole Inspection Status
May 2024





Manhole Inspection Status

- Surface Inspection
- Remote Inspection
- Not Opened
- Surcharged/Debris
- No Access
- Buried or Marked
- Not Found

- Manhole Rehab Rating = 4
- Manhole Rehab Rating = 5

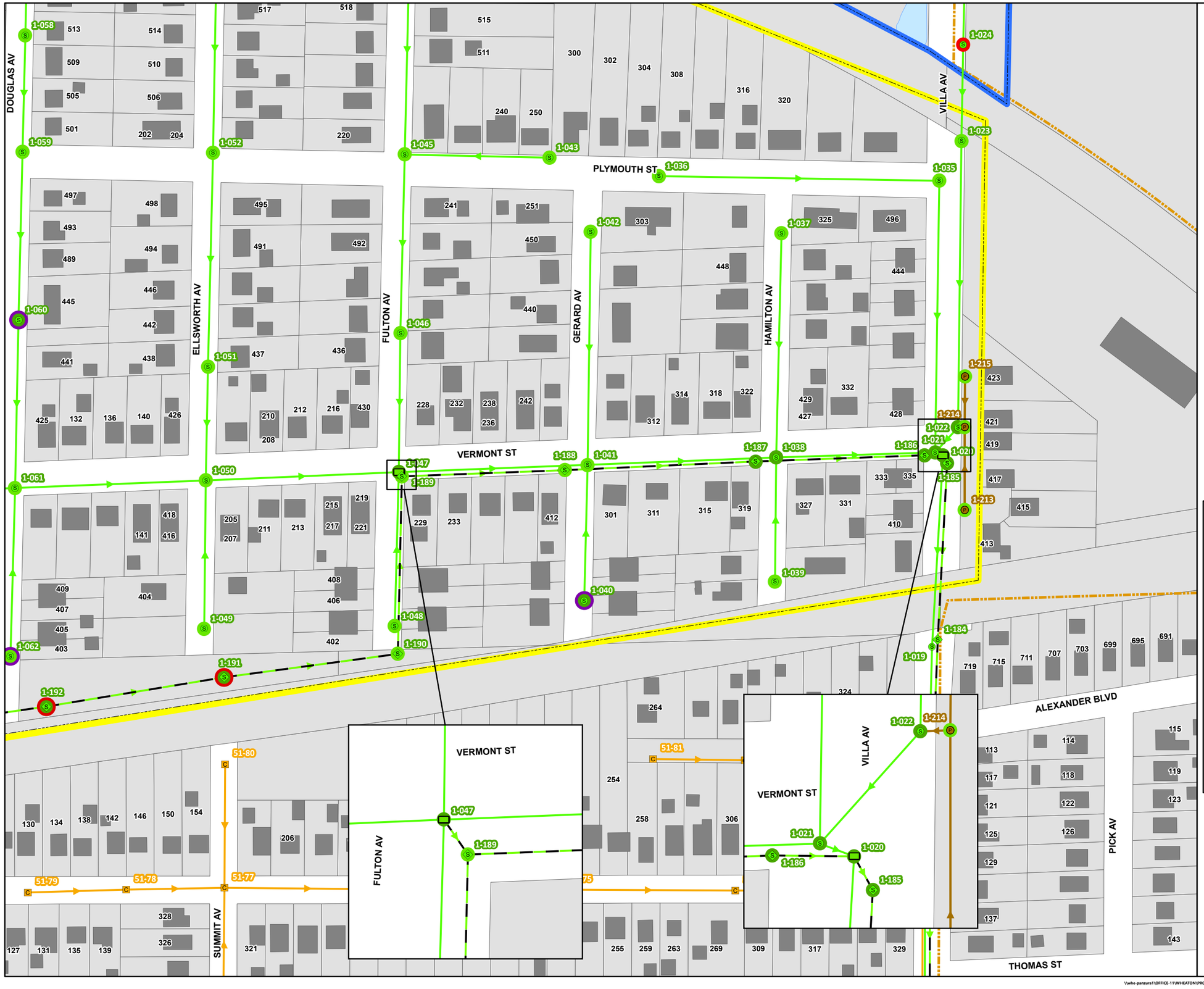
- Combined Manhole
- CSO Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- WWFTF Outflow Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Outfall
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- CSO
- Sanitary Sewer
- Separated Sewer
- SSO
- WWFTF Outflow
- Force Main
- Siphon
- Private Sanitary Sewer
- Building
- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

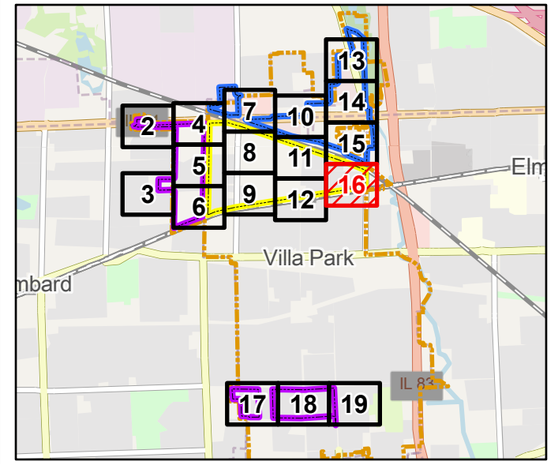
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Village of Villa Park, IL
2023 Master Plan
Exhibit C-15 - Manhole Inspection Status
May 2024





Manhole Inspection Status

- Surface Inspection
- Remote Inspection
- Not Opened
- Surcharged/Debris
- No Access
- Buried or Marked
- Not Found

- Manhole Rehab Rating = 4
- Manhole Rehab Rating = 5

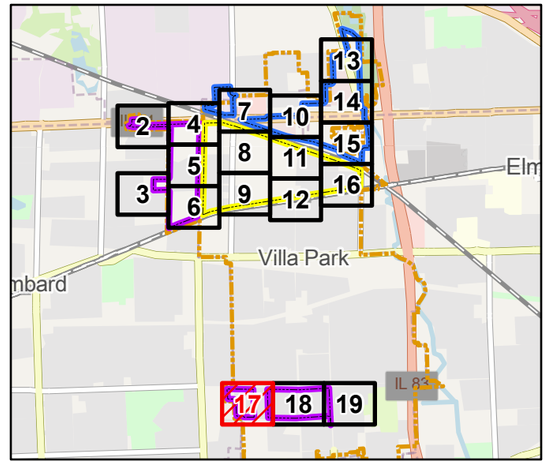
- Combined Manhole
- CSO Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- WWFTF Outflow Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Outfall
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- CSO
- Sanitary Sewer
- Separated Sewer
- SSO
- WWFTF Outflow
- Force Main
- Siphon
- Private Sanitary Sewer
- Building
- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

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Village of Villa Park, IL
2023 Master Plan
Exhibit C-16 - Manhole Inspection Status
May 2024



Manhole Inspection Status

- Surface Inspection
- Remote Inspection
- Not Opened
- Surcharged/Debris
- No Access
- Buried or Marked
- Not Found

- Manhole Rehab Rating = 4
- Manhole Rehab Rating = 5

- Combined Manhole
- CSO Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- WWFTF Outflow Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Outfall
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- CSO
- Sanitary Sewer
- Separated Sewer
- SSO
- WWFTF Outflow
- Force Main
- Siphon
- Private Sanitary Sewer
- Building
- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

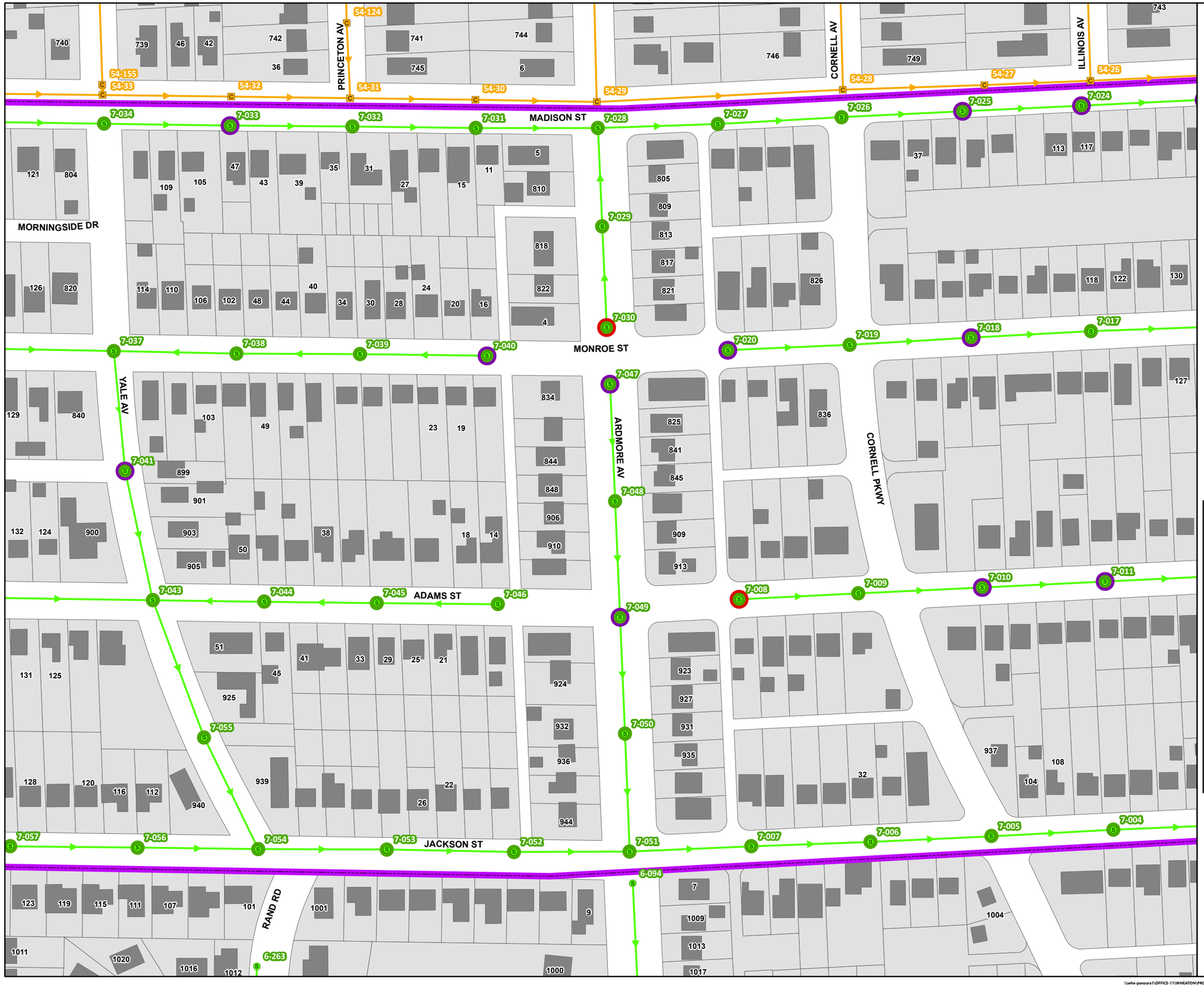
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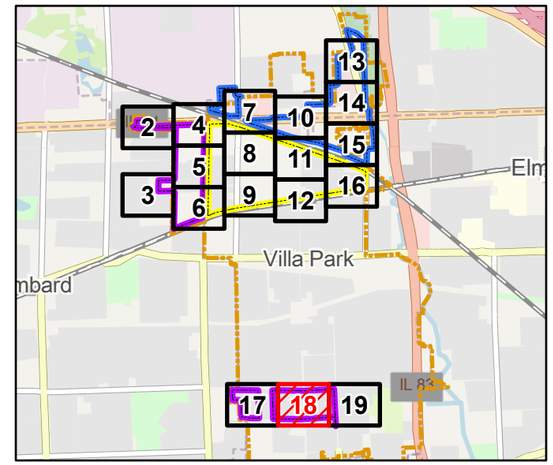
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Village of Villa Park, IL
2023 Master Plan
Exhibit C-17 - Manhole Inspection Status
May 2024

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Manhole Inspection Status

- Surface Inspection
- Remote Inspection
- Not Opened
- Surcharged/Debris
- No Access
- Buried or Marked
- Not Found

- Manhole Rehab Rating = 4
- Manhole Rehab Rating = 5

- Combined Manhole
- CSO Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- WWFTF Outflow Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Outfall
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- CSO
- Sanitary Sewer
- Separated Sewer
- SSO
- WWFTF Outflow
- Force Main
- Siphon
- Private Sanitary Sewer
- Building
- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

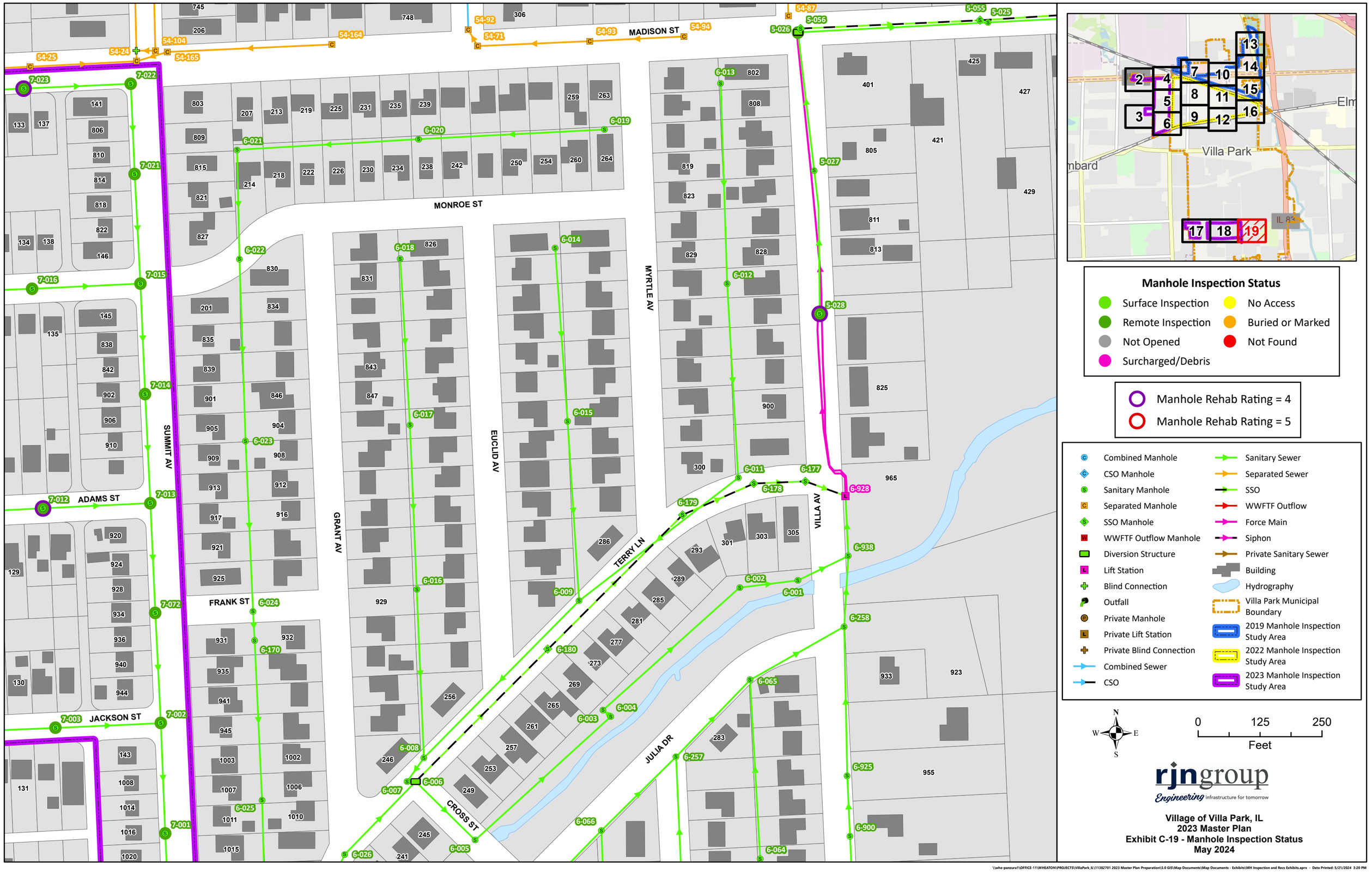
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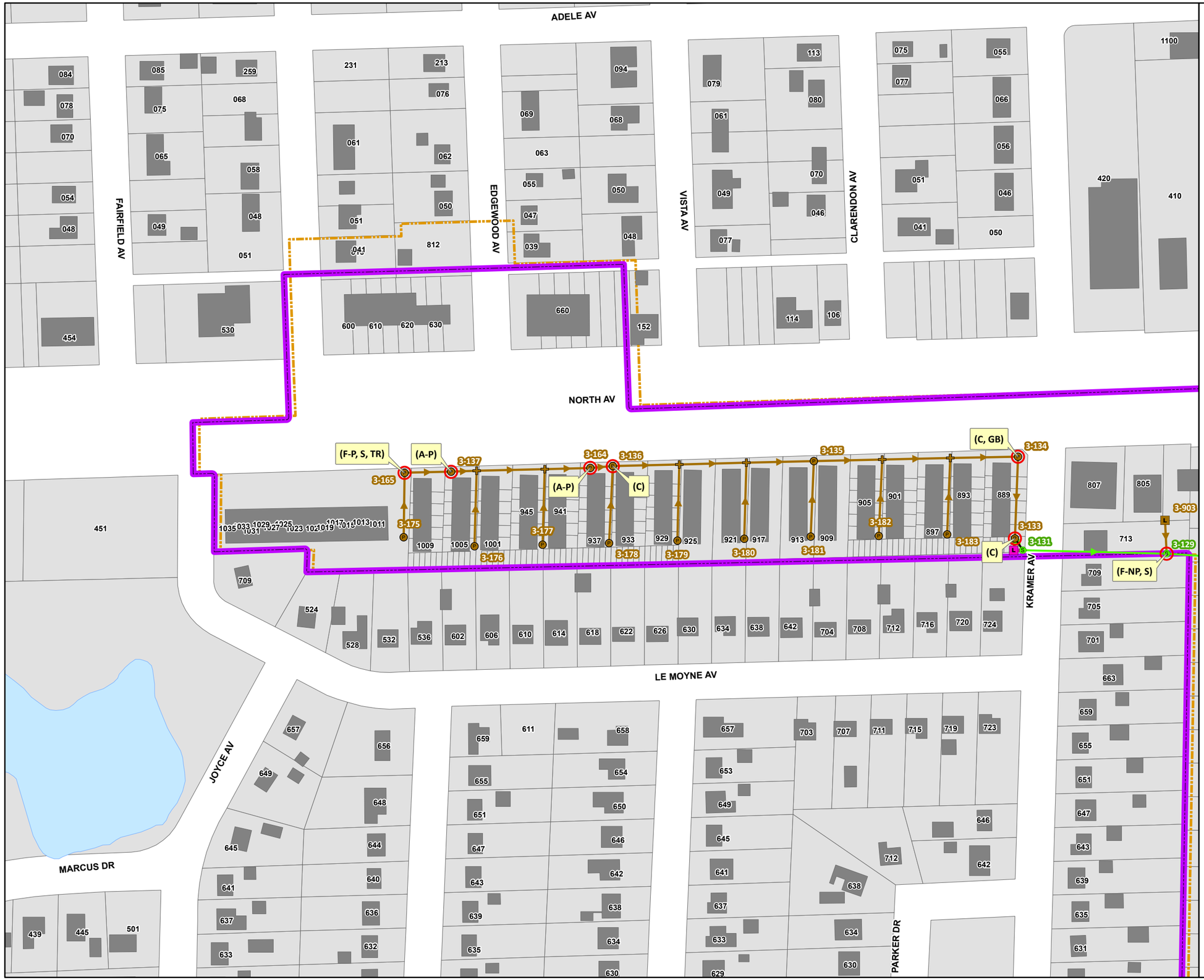
Village of Villa Park, IL
2023 Master Plan
Exhibit C-18 - Manhole Inspection Status
May 2024

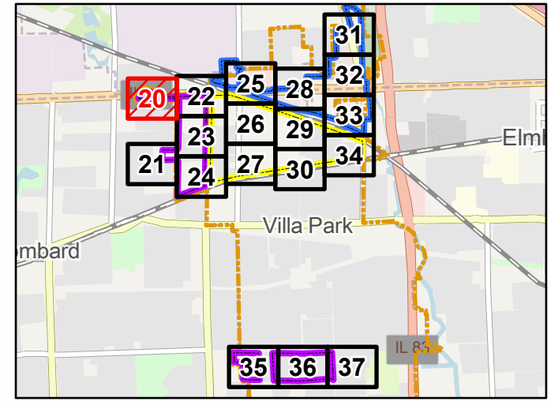
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Village of Villa Park, IL
2023 Master Plan
Exhibit C-19 - Manhole Inspection Status
May 2024





Rehabilitation Codes

CB: Replace Bolts in Cover
C: Replace Cover
FB-P: Replace Frame & Bolted Cover (Paved)
FB-NP: Replace Frame & Bolted Cover (Non-Paved)
F-P: Replace Frame & Cover (Paved)
F-NP: Replace Frame & Cover (Non-Paved)
A-P: Seal & Adjust Frame (Paved)
A-NP: Seal & Adjust Frame (Non-Paved)
I: Internal Chimney Seal
S: Structural Lining
GC: Grout Cone
GW: Grout Wall Joints, Number of Wall Joints
GB: Curtain Grout Bottom 18"
GFC: Full Curtain Grout
TR: Repair Bench & Trough
T: Replace Bench & Trough
M-P Replace Manhole (Paved)
PP: Plug Pipe
CLE: Clean Manhole
O: Other

- Manhole to be Rehabilitated
- Combined Manhole
- CSO Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- WWFTF Outflow Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Outfall
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- CSO
- Sanitary Sewer
- Separated Sewer
- SSO
- WWFTF Outflow
- Force Main
- Siphon
- Private Sanitary Sewer
- Building
- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

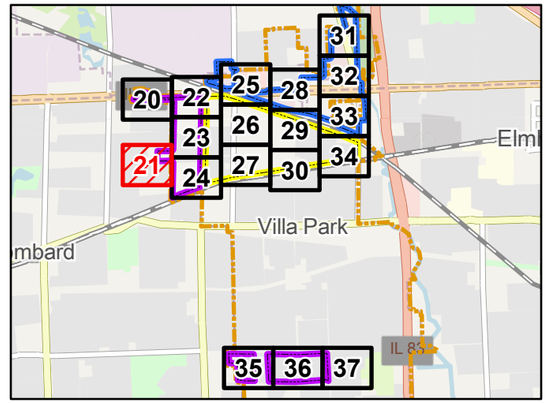
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Village of Villa Park, IL
2023 Master Plan
Exhibit C-20 - Manhole Rehabilitation Recommendations
May 2024





Rehabilitation Codes

CB: Replace Bolts in Cover
C: Replace Cover
FB-P: Replace Frame & Bolted Cover (Paved)
FB-NP: Replace Frame & Bolted Cover (Non-Paved)
F-P: Replace Frame & Cover (Paved)
F-NP: Replace Frame & Cover (Non-Paved)
A-P: Seal & Adjust Frame (Paved)
A-NP: Seal & Adjust Frame (Non-Paved)
I: Internal Chimney Seal
S: Structural Lining
GC: Grout Cone
GW: Grout Wall Joints, Number of Wall Joints
GB: Curtain Grout Bottom 18"
GFC: Full Curtain Grout
TR: Repair Bench & Trough
T: Replace Bench & Trough
M-P Replace Manhole (Paved)
PP: Plug Pipe
CLE: Clean Manhole
O: Other

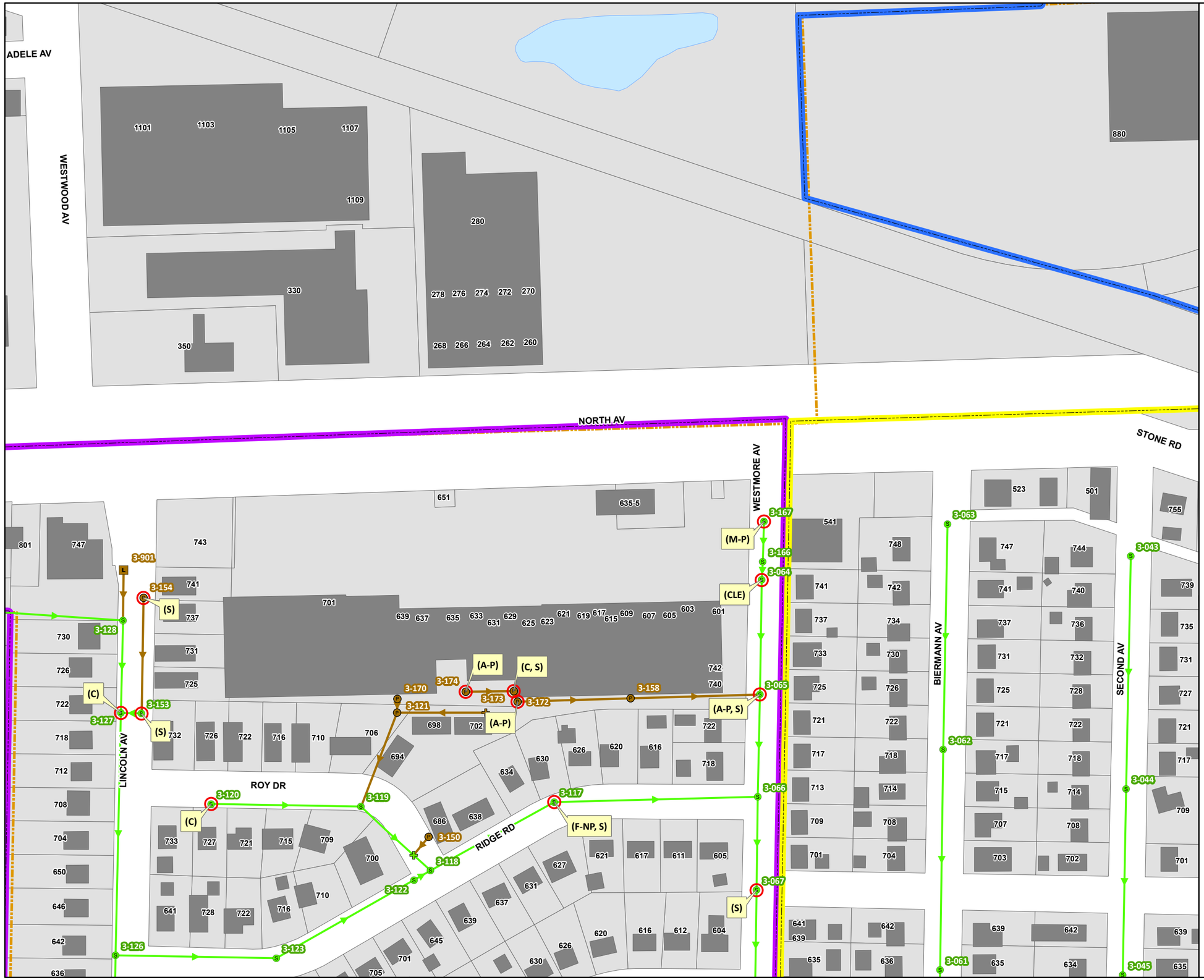
- Manhole to be Rehabilitated
- Combined Manhole
- CSO Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- WWFTF Outflow Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Outfall
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- CSO
- Sanitary Sewer
- Separated Sewer
- SSO
- WWFTF Outflow
- Force Main
- Siphon
- Private Sanitary Sewer
- Building
- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

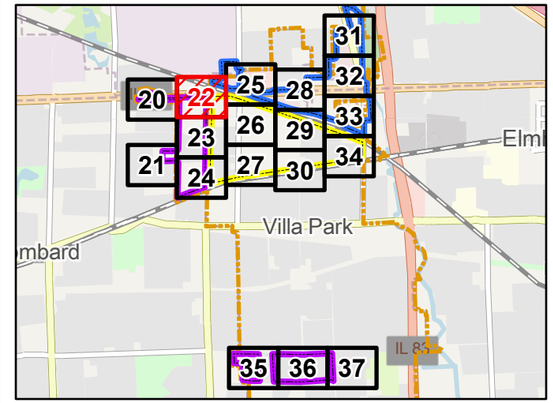
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Village of Villa Park, IL
2023 Master Plan
Exhibit C-21 - Manhole Rehabilitation Recommendations
May 2024





Rehabilitation Codes

CB: Replace Bolts in Cover
C: Replace Cover
FB-P: Replace Frame & Bolted Cover (Paved)
FB-NP: Replace Frame & Bolted Cover (Non-Paved)
F-P: Replace Frame & Cover (Paved)
F-NP: Replace Frame & Cover (Non-Paved)
A-P: Seal & Adjust Frame (Paved)
A-NP: Seal & Adjust Frame (Non-Paved)
I: Internal Chimney Seal
S: Structural Lining
GC: Grout Cone
GW: Grout Wall Joints, Number of Wall Joints
GB: Curtain Grout Bottom 18"
GFC: Full Curtain Grout
TR: Repair Bench & Trough
T: Replace Bench & Trough
M-P Replace Manhole (Paved)
PP: Plug Pipe
CLE: Clean Manhole
O: Other

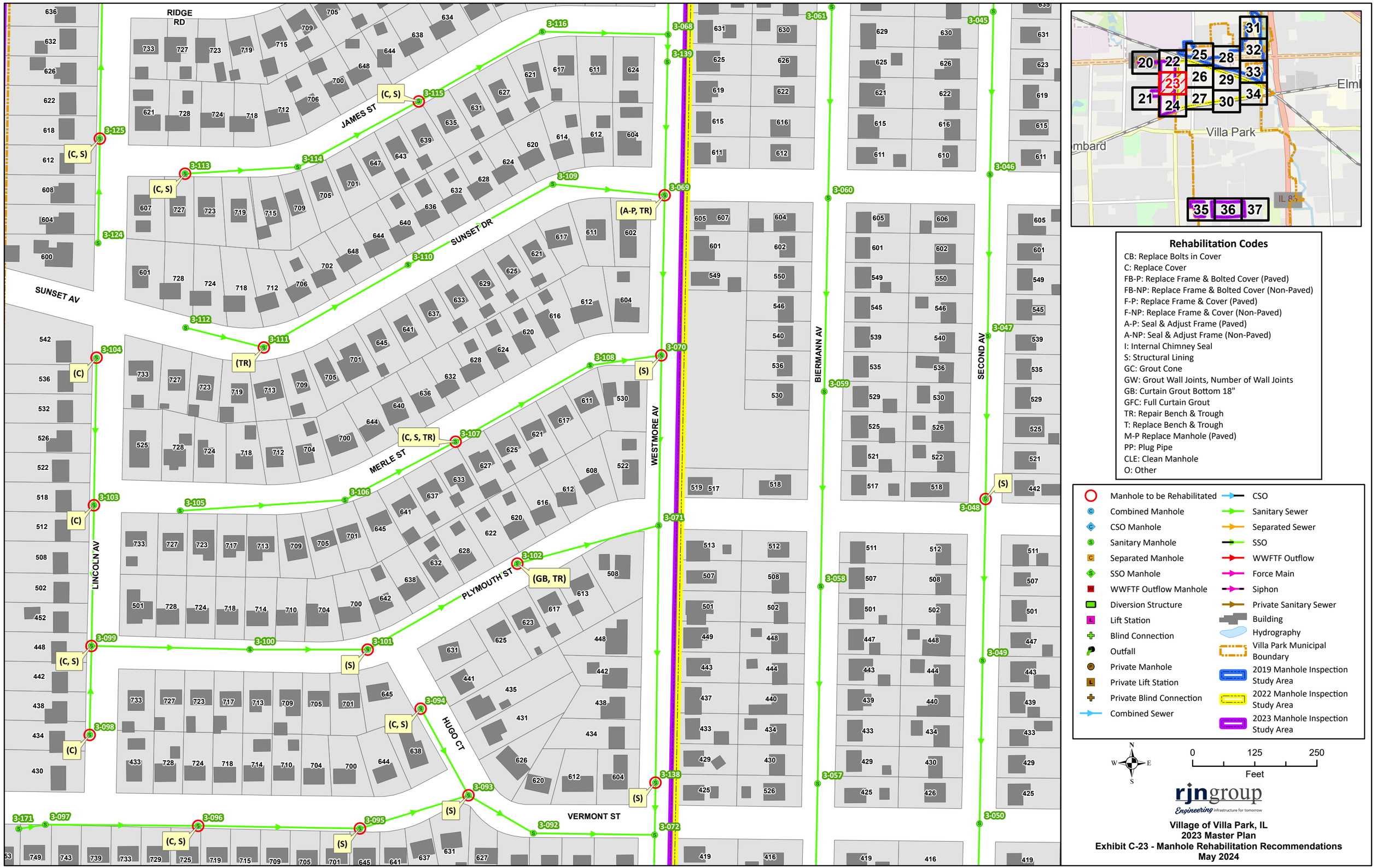
- Manhole to be Rehabilitated
- Combined Manhole
- CSO Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- WWFTF Outflow Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Outfall
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- CSO
- Sanitary Sewer
- Separated Sewer
- SSO
- WWFTF Outflow
- Force Main
- Siphon
- Private Sanitary Sewer
- Building
- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

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Village of Villa Park, IL
2023 Master Plan
Exhibit C-22 - Manhole Rehabilitation Recommendations
May 2024



Rehabilitation Codes

CB: Replace Bolts in Cover
C: Replace Cover
FB-P: Replace Frame & Bolted Cover (Paved)
FB-NP: Replace Frame & Bolted Cover (Non-Paved)
F-P: Replace Frame & Cover (Paved)
F-NP: Replace Frame & Cover (Non-Paved)
A-P: Seal & Adjust Frame (Paved)
A-NP: Seal & Adjust Frame (Non-Paved)
I: Internal Chimney Seal
S: Structural Lining
GC: Grout Cone
GW: Grout Wall Joints, Number of Wall Joints
GB: Curtain Grout Bottom 18"
GFC: Full Curtain Grout
TR: Repair Bench & Trough
T: Replace Bench & Trough
M-P Replace Manhole (Paved)
PP: Plug Pipe
CLE: Clean Manhole
O: Other

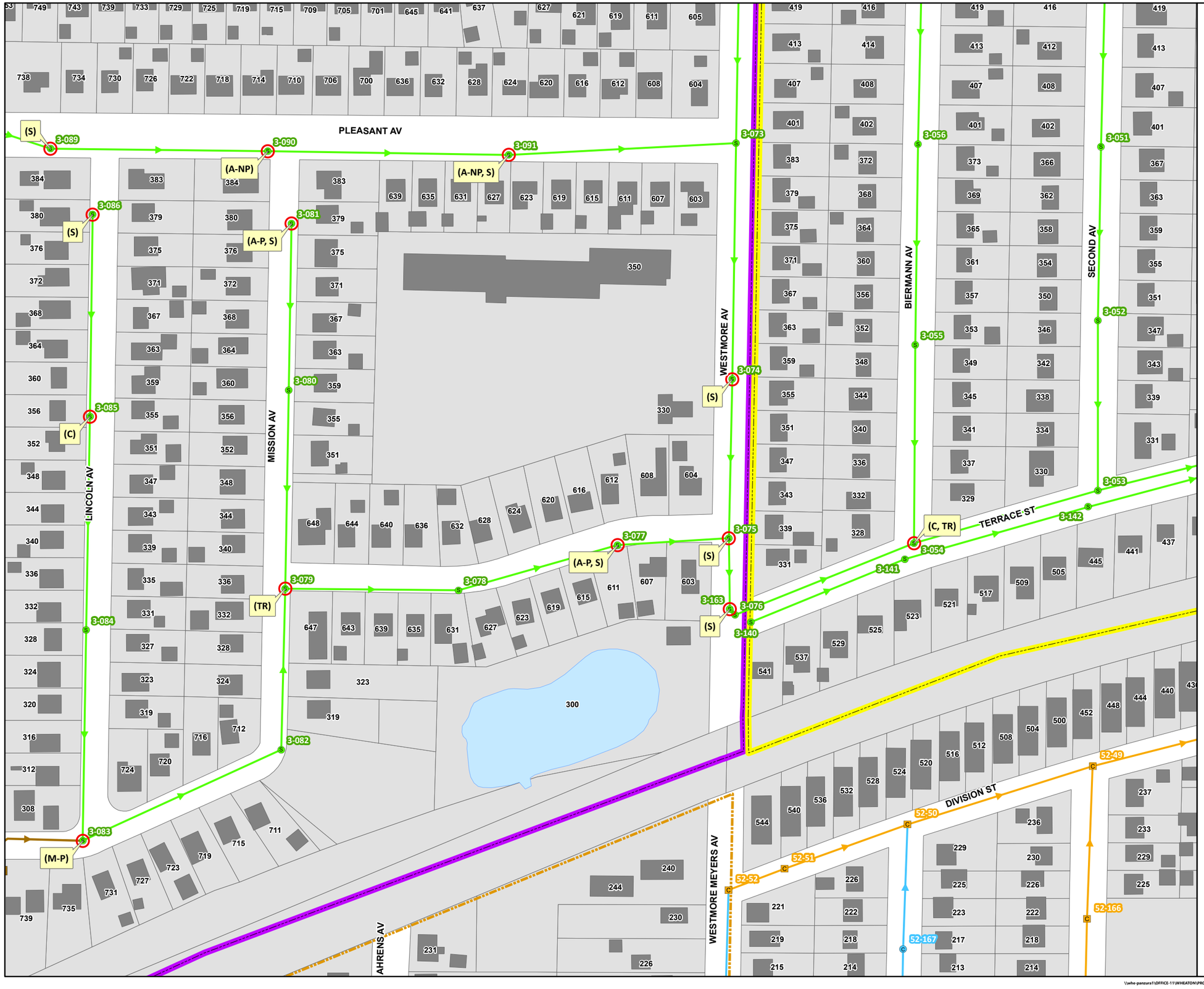
- Manhole to be Rehabilitated
- Combined Manhole
- CSO Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- WWFTF Outflow Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Outfall
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- CSO
- Sanitary Sewer
- Separated Sewer
- SSO
- WWFTF Outflow
- Force Main
- Siphon
- Private Sanitary Sewer
- Building
- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

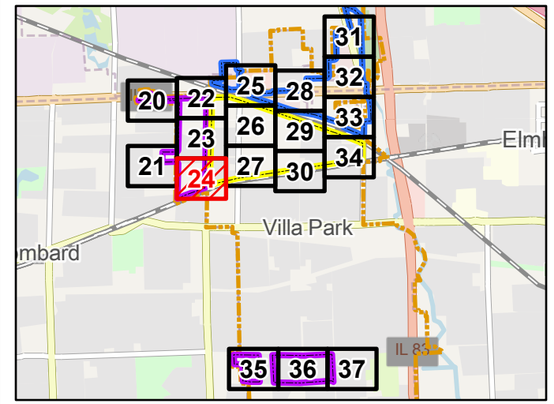
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Village of Villa Park, IL
2023 Master Plan
Exhibit C-23 - Manhole Rehabilitation Recommendations
May 2024





Rehabilitation Codes

CB: Replace Bolts in Cover
C: Replace Cover
FB-P: Replace Frame & Bolted Cover (Paved)
FB-NP: Replace Frame & Bolted Cover (Non-Paved)
F-P: Replace Frame & Cover (Paved)
F-NP: Replace Frame & Cover (Non-Paved)
A-P: Seal & Adjust Frame (Paved)
A-NP: Seal & Adjust Frame (Non-Paved)
I: Internal Chimney Seal
S: Structural Lining
GC: Grout Cone
GW: Grout Wall Joints, Number of Wall Joints
GB: Curtain Grout Bottom 18"
GFC: Full Curtain Grout
TR: Repair Bench & Trough
T: Replace Bench & Trough
M-P Replace Manhole (Paved)
PP: Plug Pipe
CLE: Clean Manhole
O: Other

- Manhole to be Rehabilitated
- Combined Manhole
- CSO Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- WWFTF Outflow Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Outfall
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- CSO
- Sanitary Sewer
- Separated Sewer
- SSO
- WWFTF Outflow
- Force Main
- Siphon
- Private Sanitary Sewer
- Building
- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

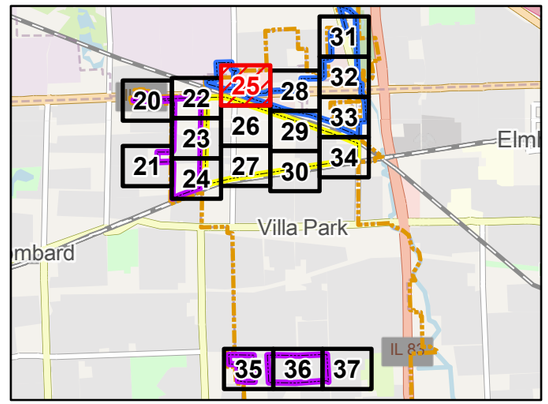
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Village of Villa Park, IL
2023 Master Plan
Exhibit C-24 - Manhole Rehabilitation Recommendations
May 2024





Rehabilitation Codes

CB: Replace Bolts in Cover
C: Replace Cover
FB-P: Replace Frame & Bolted Cover (Paved)
FB-NP: Replace Frame & Bolted Cover (Non-Paved)
F-P: Replace Frame & Cover (Paved)
F-NP: Replace Frame & Cover (Non-Paved)
A-P: Seal & Adjust Frame (Paved)
A-NP: Seal & Adjust Frame (Non-Paved)
I: Internal Chimney Seal
S: Structural Lining
GC: Grout Cone
GW: Grout Wall Joints, Number of Wall Joints
GB: Curtain Grout Bottom 18"
GFC: Full Curtain Grout
TR: Repair Bench & Trough
T: Replace Bench & Trough
M-P Replace Manhole (Paved)
PP: Plug Pipe
CLE: Clean Manhole
O: Other

- Manhole to be Rehabilitated
- Combined Manhole
- CSO Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- WWFTF Outflow Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Outfall
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- CSO
- Sanitary Sewer
- Separated Sewer
- SSO
- WWFTF Outflow
- Force Main
- Siphon
- Private Sanitary Sewer
- Building
- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

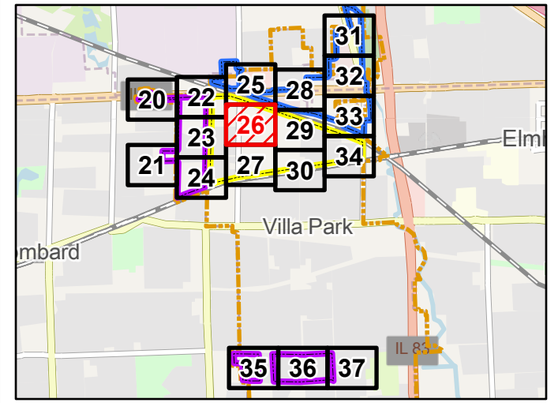
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Village of Villa Park, IL
2023 Master Plan
Exhibit C-25 - Manhole Rehabilitation Recommendations
May 2024





Rehabilitation Codes

- CB: Replace Bolts in Cover
- C: Replace Cover
- FB-P: Replace Frame & Bolted Cover (Paved)
- FB-NP: Replace Frame & Bolted Cover (Non-Paved)
- F-P: Replace Frame & Cover (Paved)
- F-NP: Replace Frame & Cover (Non-Paved)
- A-P: Seal & Adjust Frame (Paved)
- A-NP: Seal & Adjust Frame (Non-Paved)
- I: Internal Chimney Seal
- S: Structural Lining
- GC: Grout Cone
- GW: Grout Wall Joints, Number of Wall Joints
- GB: Curtain Grout Bottom 18"
- GFC: Full Curtain Grout
- TR: Repair Bench & Trough
- T: Replace Bench & Trough
- M-P Replace Manhole (Paved)
- PP: Plug Pipe
- CLE: Clean Manhole
- O: Other

- Manhole to be Rehabilitated
- Combined Manhole
- CSO Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- WWFTF Outflow Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Outfall
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- CSO
- Sanitary Sewer
- Separated Sewer
- SSO
- WWFTF Outflow
- Force Main
- Siphon
- Private Sanitary Sewer
- Building
- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

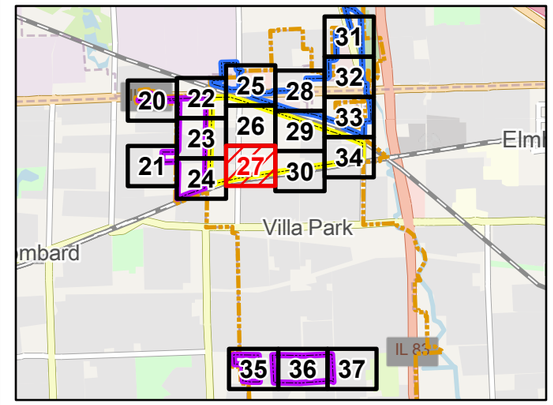
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Village of Villa Park, IL
2023 Master Plan
Exhibit C-26 - Manhole Rehabilitation Recommendations
May 2024





Rehabilitation Codes

CB: Replace Bolts in Cover
C: Replace Cover
FB-P: Replace Frame & Bolted Cover (Paved)
FB-NP: Replace Frame & Bolted Cover (Non-Paved)
F-P: Replace Frame & Cover (Paved)
F-NP: Replace Frame & Cover (Non-Paved)
A-P: Seal & Adjust Frame (Paved)
A-NP: Seal & Adjust Frame (Non-Paved)
I: Internal Chimney Seal
S: Structural Lining
GC: Grout Cone
GW: Grout Wall Joints, Number of Wall Joints
GB: Curtain Grout Bottom 18"
GFC: Full Curtain Grout
TR: Repair Bench & Trough
T: Replace Bench & Trough
M-P Replace Manhole (Paved)
PP: Plug Pipe
CLE: Clean Manhole
O: Other

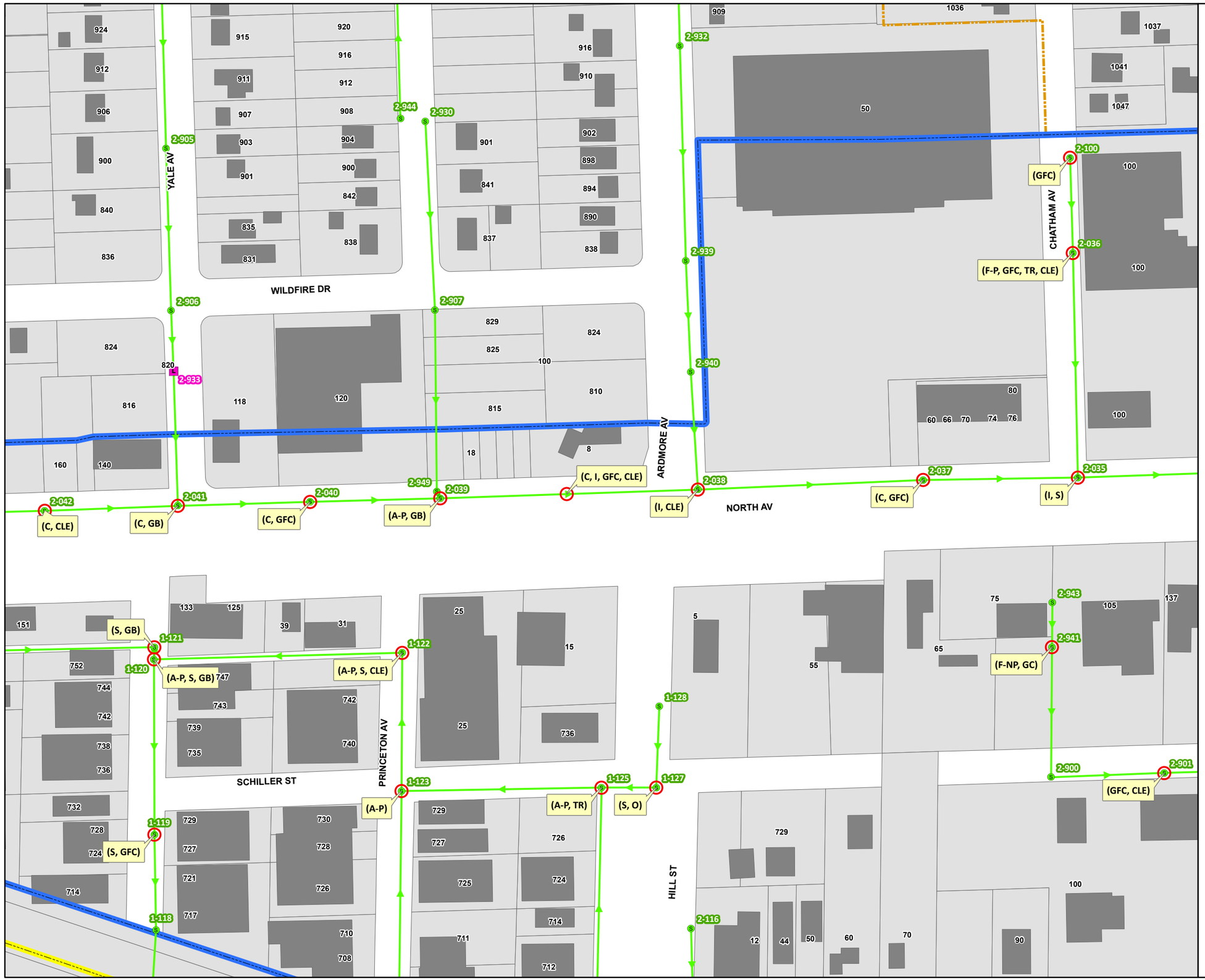
- Manhole to be Rehabilitated
- Combined Manhole
- CSO Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- WWFTF Outflow Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Outfall
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- CSO
- Sanitary Sewer
- Separated Sewer
- SSO
- WWFTF Outflow
- Force Main
- Siphon
- Private Sanitary Sewer
- Building
- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

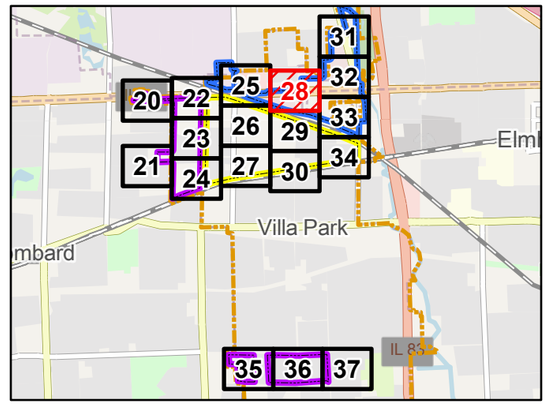
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Village of Villa Park, IL
2023 Master Plan
Exhibit C-27 - Manhole Rehabilitation Recommendations
May 2024





Rehabilitation Codes

CB: Replace Bolts in Cover
C: Replace Cover
FB-P: Replace Frame & Bolted Cover (Paved)
FB-NP: Replace Frame & Bolted Cover (Non-Paved)
F-P: Replace Frame & Cover (Paved)
F-NP: Replace Frame & Cover (Non-Paved)
A-P: Seal & Adjust Frame (Paved)
A-NP: Seal & Adjust Frame (Non-Paved)
I: Internal Chimney Seal
S: Structural Lining
GC: Grout Cone
GW: Grout Wall Joints, Number of Wall Joints
GB: Curtain Grout Bottom 18"
GFC: Full Curtain Grout
TR: Repair Bench & Trough
T: Replace Bench & Trough
M-P Replace Manhole (Paved)
PP: Plug Pipe
CLE: Clean Manhole
O: Other

- Manhole to be Rehabilitated
- Combined Manhole
- CSO Manhole
- Sanitary Manhole
- Separated Manhole
- SSO Manhole
- WWFTF Outflow Manhole
- Diversion Structure
- Lift Station
- Blind Connection
- Outfall
- Private Manhole
- Private Lift Station
- Private Blind Connection
- Combined Sewer
- CSO
- Sanitary Sewer
- Separated Sewer
- SSO
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- Siphon
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- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

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2023 Master Plan
Exhibit C-28 - Manhole Rehabilitation Recommendations
May 2024



Rehabilitation Codes

- CB: Replace Bolts in Cover
- C: Replace Cover
- FB-P: Replace Frame & Bolted Cover (Paved)
- FB-NP: Replace Frame & Bolted Cover (Non-Paved)
- F-P: Replace Frame & Cover (Paved)
- F-NP: Replace Frame & Cover (Non-Paved)
- A-P: Seal & Adjust Frame (Paved)
- A-NP: Seal & Adjust Frame (Non-Paved)
- I: Internal Chimney Seal
- S: Structural Lining
- GC: Grout Cone
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- GB: Curtain Grout Bottom 18"
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- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

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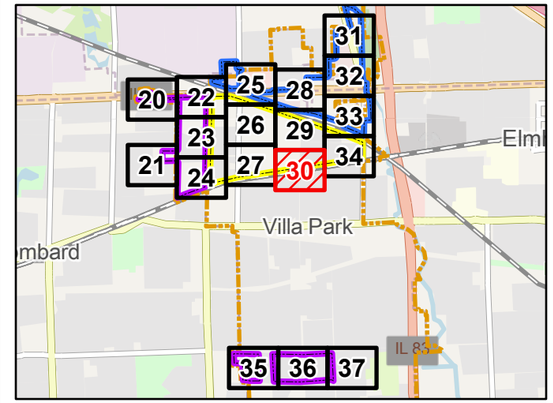
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Exhibit C-29 - Manhole Rehabilitation Recommendations
May 2024





Rehabilitation Codes

CB: Replace Bolts in Cover
C: Replace Cover
FB-P: Replace Frame & Bolted Cover (Paved)
FB-NP: Replace Frame & Bolted Cover (Non-Paved)
F-P: Replace Frame & Cover (Paved)
F-NP: Replace Frame & Cover (Non-Paved)
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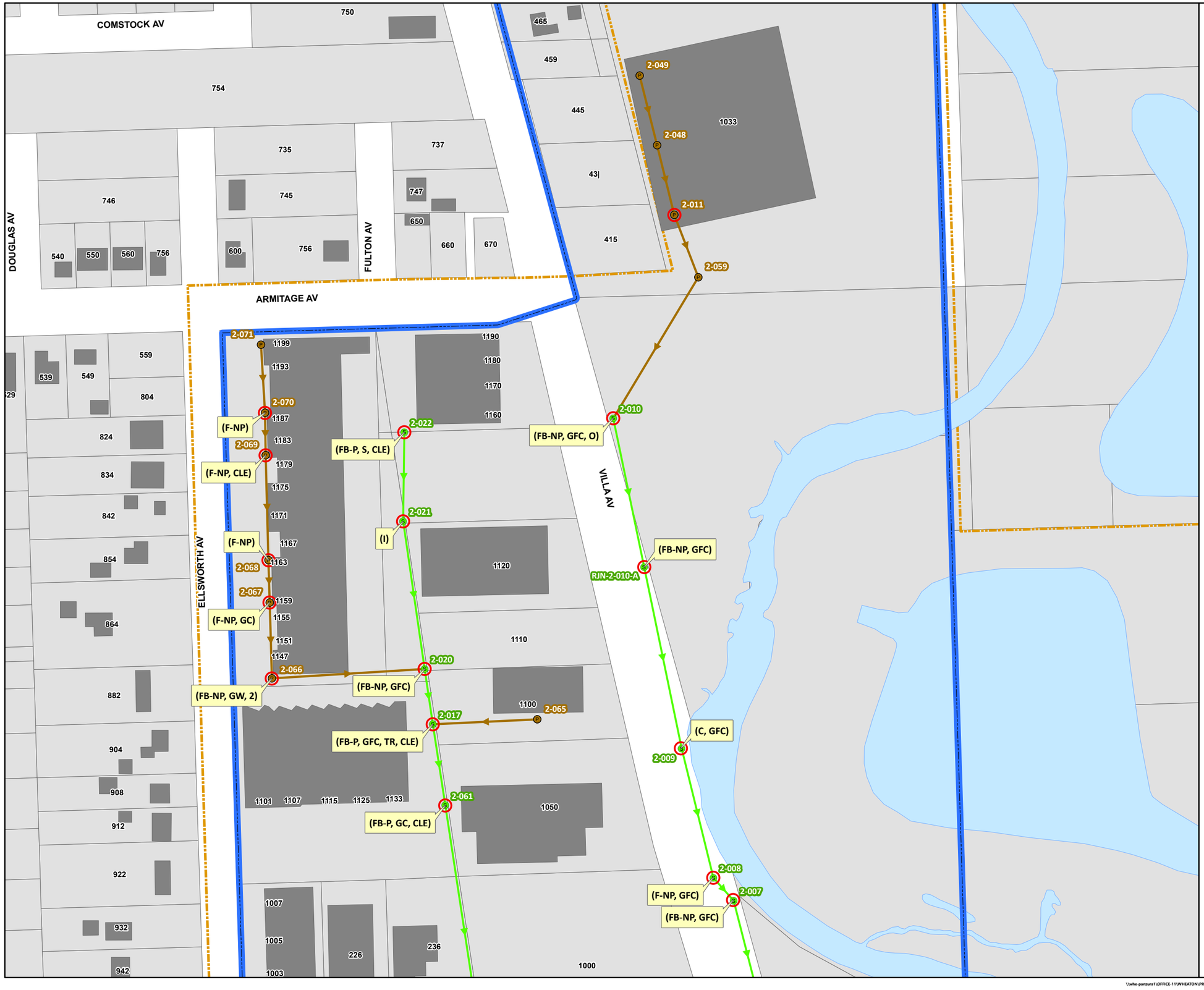
- Manhole to be Rehabilitated
- Combined Manhole
- CSO Manhole
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- Separated Manhole
- SSO Manhole
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- Diversion Structure
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- Hydrography
- Villa Park Municipal Boundary
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- 2022 Manhole Inspection Study Area
- 2023 Manhole Inspection Study Area

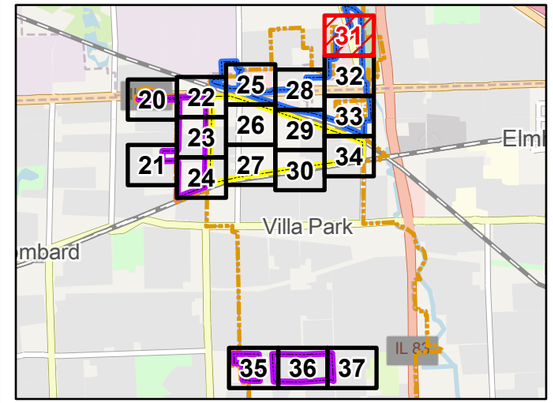
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2023 Master Plan
Exhibit C-30 - Manhole Rehabilitation Recommendations
May 2024





Rehabilitation Codes

CB: Replace Bolts in Cover
C: Replace Cover
FB-P: Replace Frame & Bolted Cover (Paved)
FB-NP: Replace Frame & Bolted Cover (Non-Paved)
F-P: Replace Frame & Cover (Paved)
F-NP: Replace Frame & Cover (Non-Paved)
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A-NP: Seal & Adjust Frame (Non-Paved)
I: Internal Chimney Seal
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TR: Repair Bench & Trough
T: Replace Bench & Trough
M-P Replace Manhole (Paved)
PP: Plug Pipe
CLE: Clean Manhole
O: Other

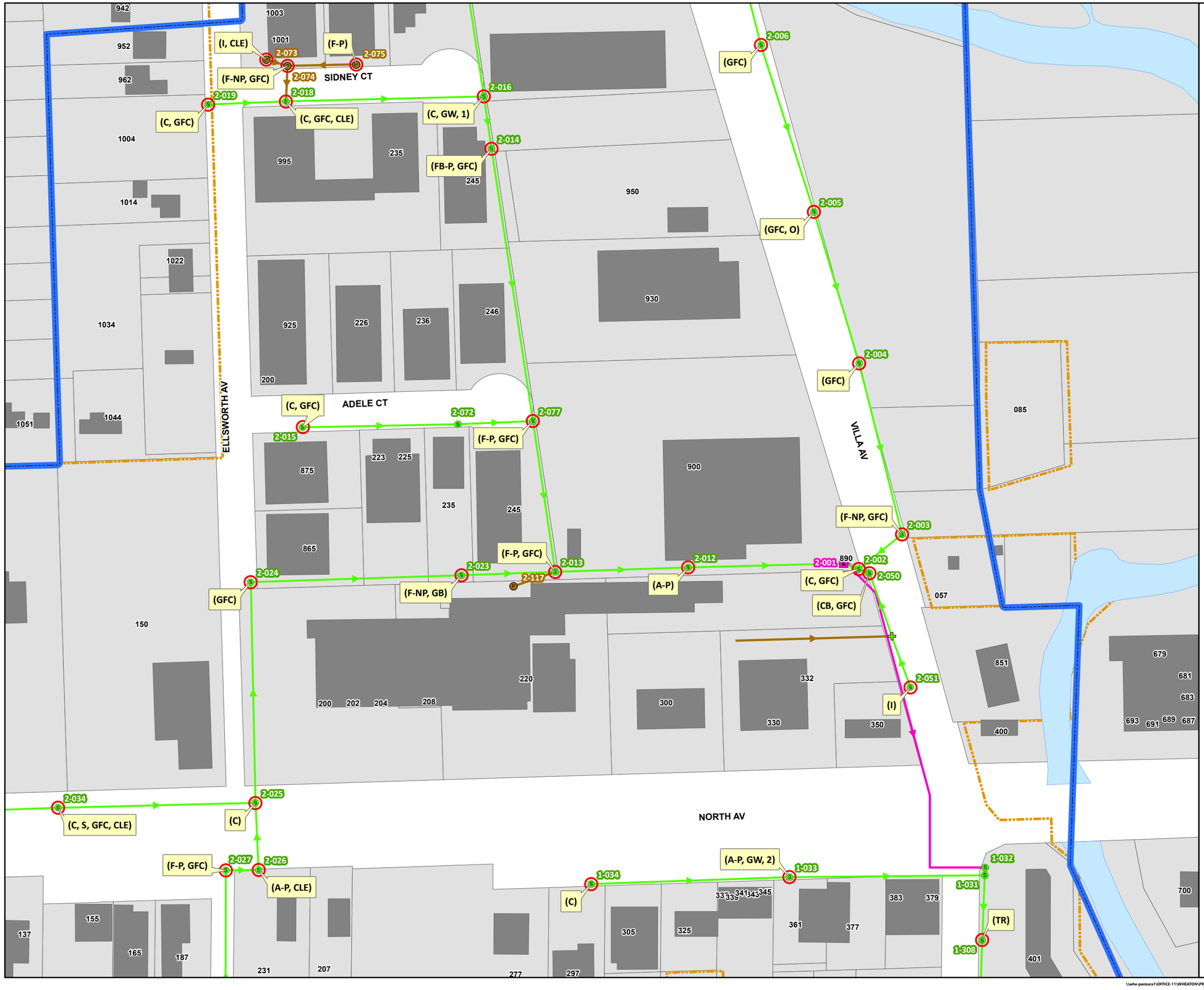
- Manhole to be Rehabilitated
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- CSO Manhole
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- SSO Manhole
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- Diversion Structure
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- Hydrography
- Villa Park Municipal Boundary
- 2019 Manhole Inspection Study Area
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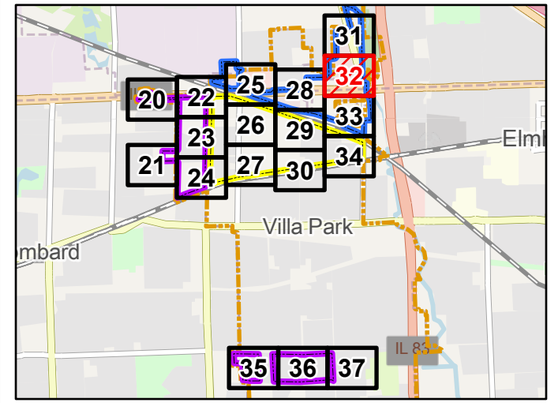
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Village of Villa Park, IL
2023 Master Plan
Exhibit C-31 - Manhole Rehabilitation Recommendations
May 2024





Rehabilitation Codes

CB: Replace Bolts in Cover
C: Replace Cover
FB-P: Replace Frame & Bolted Cover (Paved)
FB-NP: Replace Frame & Bolted Cover (Non-Paved)
F-P: Replace Frame & Cover (Paved)
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- Hydrography
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- 2022 Manhole Inspection Study Area
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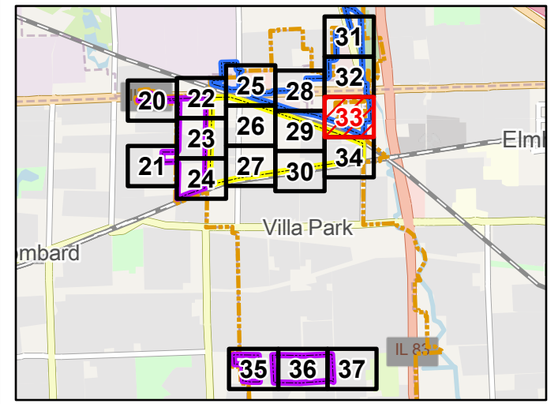
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2023 Master Plan
Exhibit C-32 - Manhole Rehabilitation Recommendations
May 2024





Rehabilitation Codes

CB: Replace Bolts in Cover
C: Replace Cover
FB-P: Replace Frame & Bolted Cover (Paved)
FB-NP: Replace Frame & Bolted Cover (Non-Paved)
F-P: Replace Frame & Cover (Paved)
F-NP: Replace Frame & Cover (Non-Paved)
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- Hydrography
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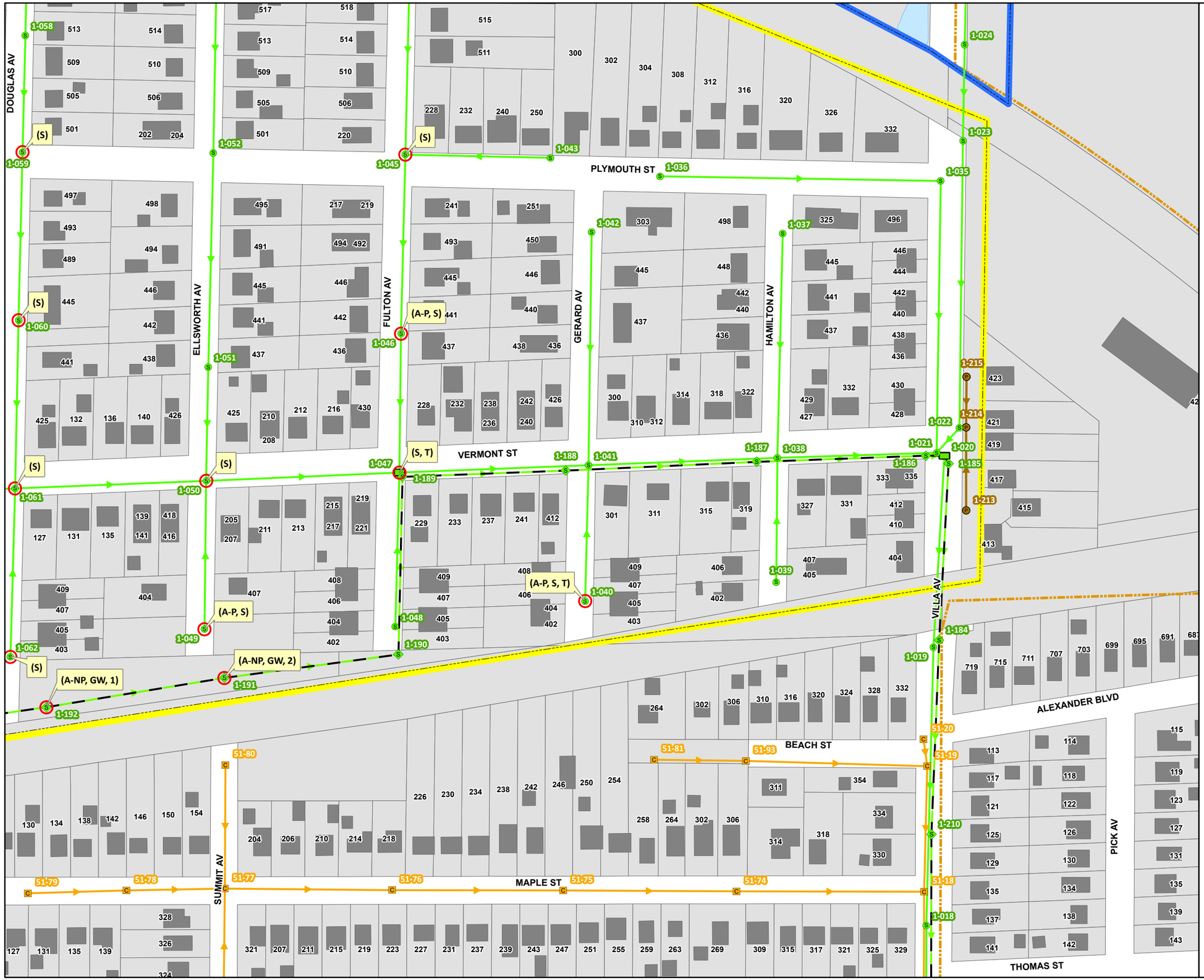
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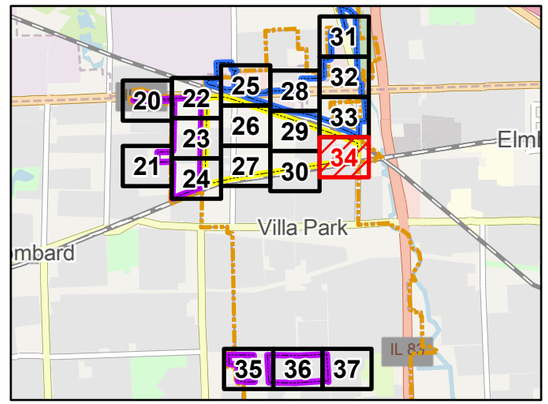
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2023 Master Plan
Exhibit C-33 - Manhole Rehabilitation Recommendations
May 2024

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Rehabilitation Codes

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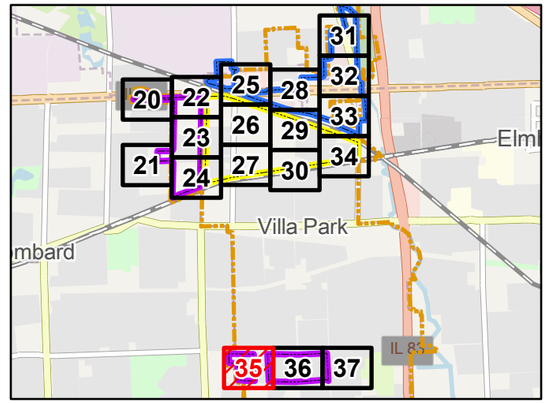
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2023 Master Plan
Exhibit C-34 - Manhole Rehabilitation Recommendations
May 2024

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Rehabilitation Codes

CB: Replace Bolts in Cover
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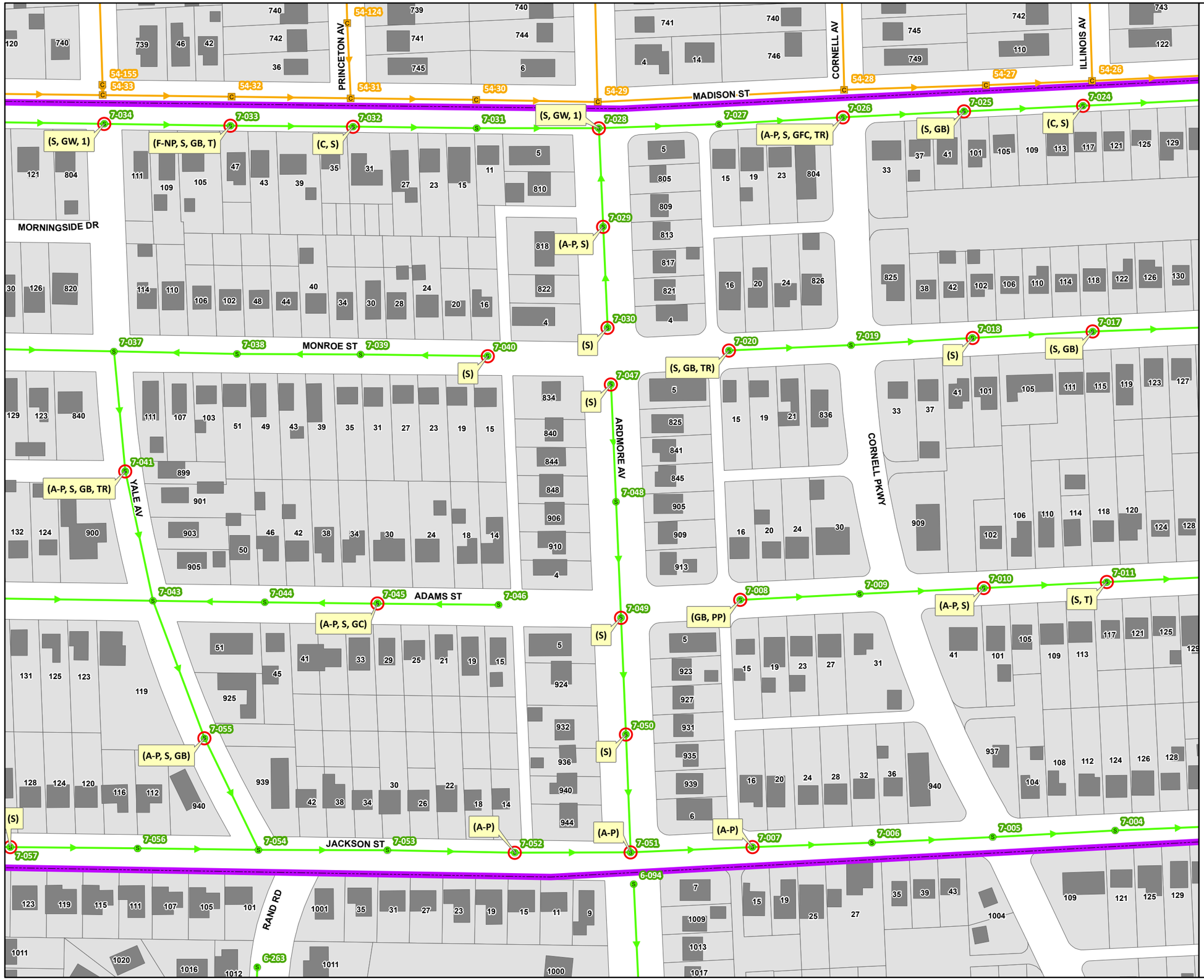
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2023 Master Plan
Exhibit C-35 - Manhole Rehabilitation Recommendations
May 2024



Rehabilitation Codes

CB: Replace Bolts in Cover
C: Replace Cover
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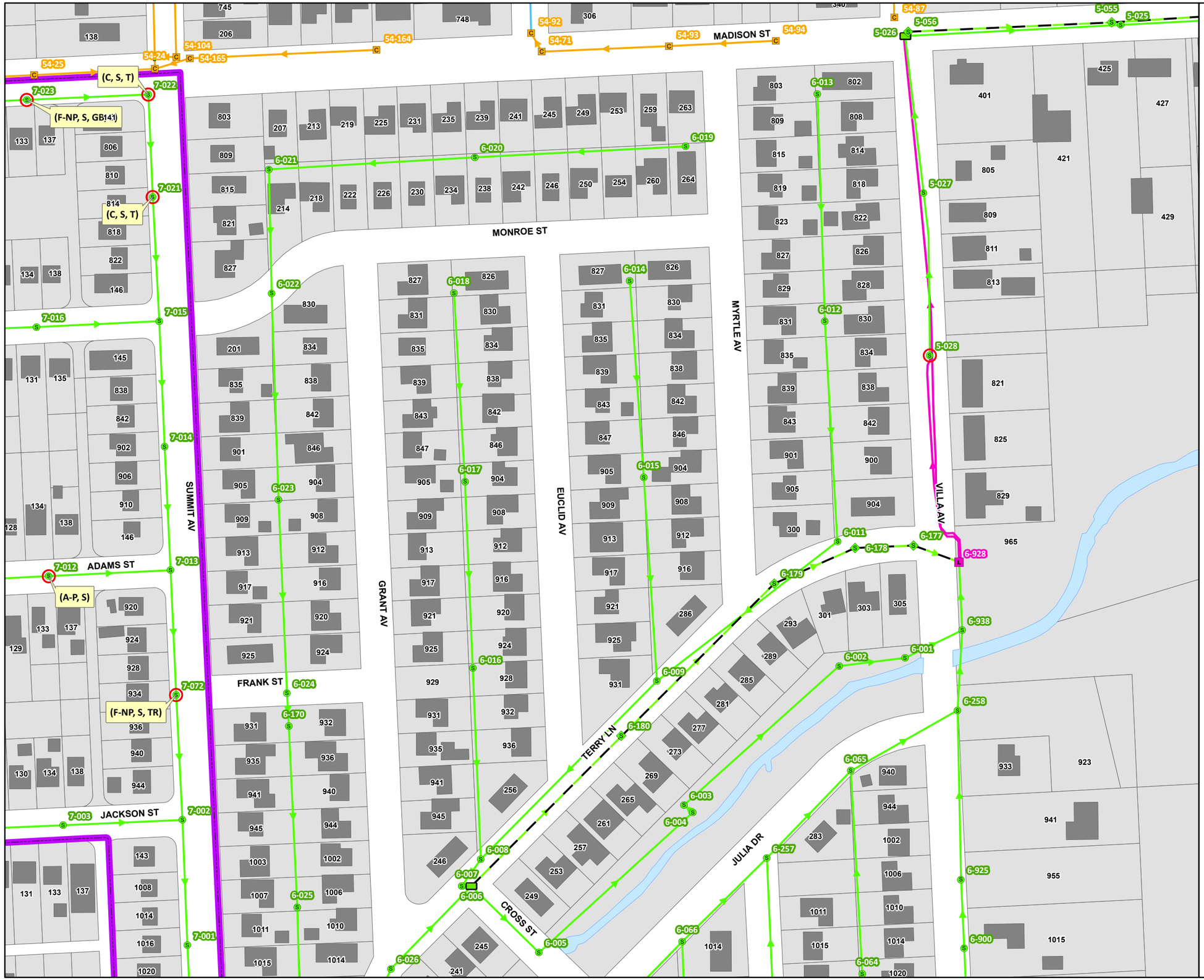
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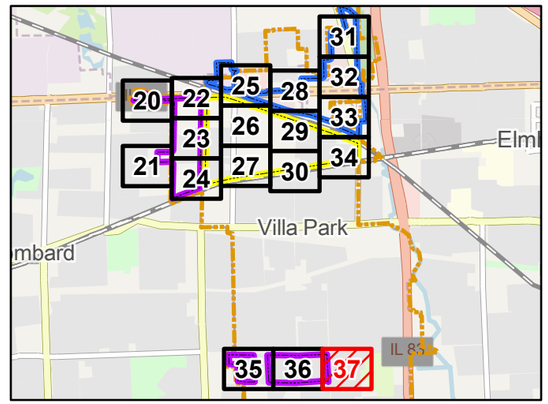
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2023 Master Plan
Exhibit C-36 - Manhole Rehabilitation Recommendations
May 2024

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Village of Villa Park, IL
2023 Master Plan
Exhibit C-37 - Manhole Rehabilitation Recommendations
May 2024

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ATTACHMENT B – GIS MAP UPDATES

ATTACHMENT C – MANHOLE RECOMMENDATIONS TABLE

VILLAGE OF VILLA PARK, IL
2024 BUDGETARY MANHOLE REHABILITATION RECOMMENDATIONS

| GENERAL INFORMATION | | | | | | | | | | | | | | RECOMMENDATIONS | | | | | | | | | | | | | |

VILLAGE OF VILLA PARK, IL
2024 BUDGETARY MANHOLE REHABILITATION RECOMMENDATIONS

| GENERAL INFORMATION | | | | | | | | | | | | | | RECOMMENDATIONS | | | | | | | | | | | | | |

VILLAGE OF VILLA PARK, IL
2024 BUDGETARY MANHOLE REHABILITATION RECOMMENDATIONS

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VILLAGE OF VILLA PARK, IL
2024 BUDGETARY MANHOLE REHABILITATION RECOMMENDATIONS

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VILLAGE OF VILLA PARK, IL
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VILLAGE OF VILLA PARK, IL
2024 BUDGETARY MANHOLE REHABILITATION RECOMMENDATIONS

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VILLAGE OF VILLA PARK, IL
2024 BUDGETARY MANHOLE REHABILITATION RECOMMENDATIONS

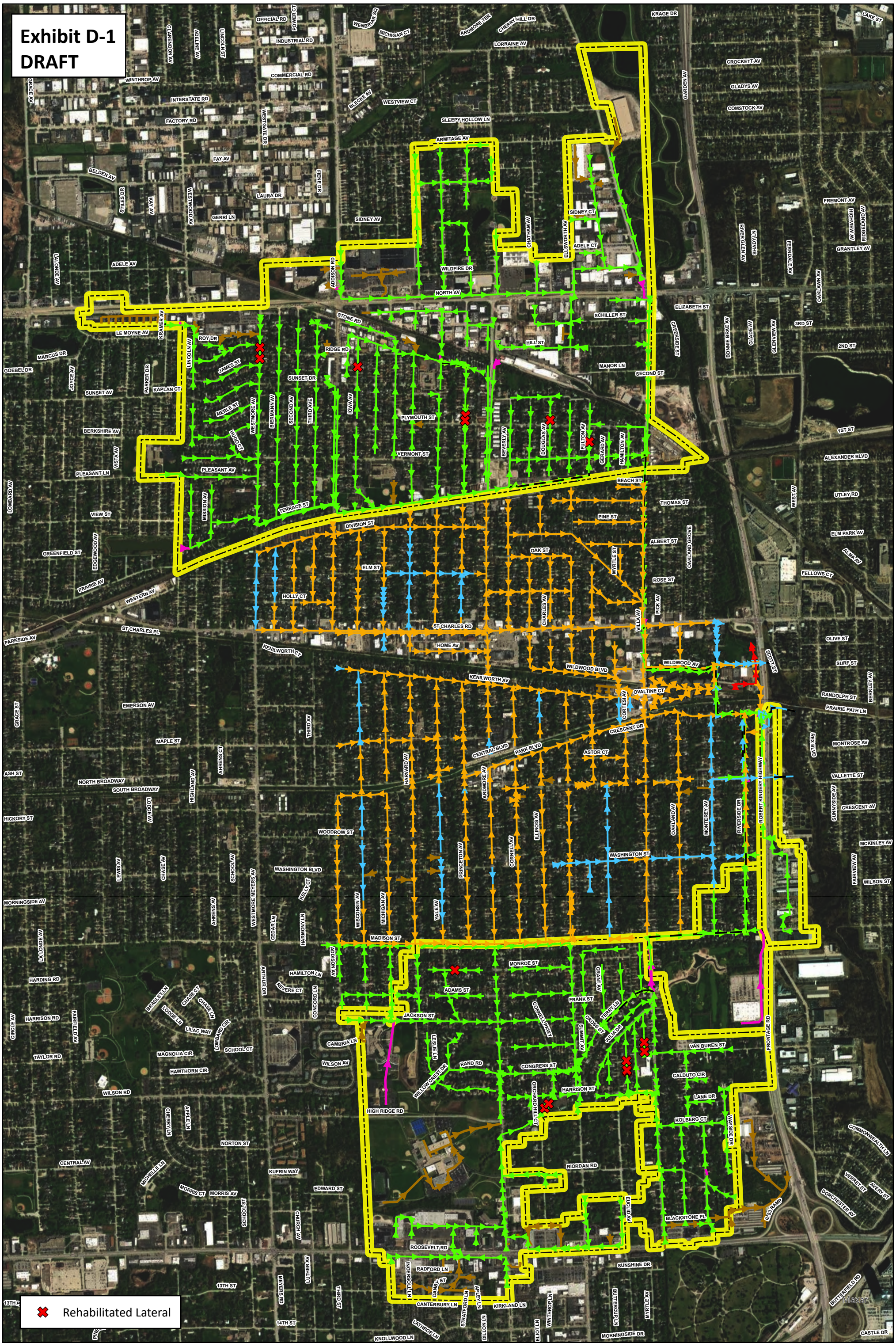
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VILLAGE OF VILLA PARK, IL
2024 BUDGETARY MANHOLE REHABILITATION RECOMMENDATIONS

| GENERAL INFORMATION | | | | | | | | | | | | | | RECOMMENDATIONS | | | | | | | | | | | | | |

APPENDIX C – PREVIOUS LATERAL REHABILITATION

Exhibit D-1
DRAFT



Rehabilitated Lateral

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Combined Sewer
CSO
Sanitary Sewer
Separated Sewer
SSO
WWFTF Outflow
Force Main
Siphon
Private Sanitary Sewers

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Village of Villa Park, IL
2023 Master Plan
Rehabilitated Laterals - DRAFT
May 2024

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