DOWNERS GROVE SANITARY DISTRICT GENERAL MANAGER'S REPORT April 17, 2020

April Board Meeting

Copies of the following items are enclosed for the April 21, 2020 meeting:

- 1) Proposed Agenda
- 2) Minutes of the March 17, 2020 regular meeting
- 3) Claim Ordinance 1888
- 4) Memo regarding Group Insurance Coverage Renewal
- 5) Memo regarding CD investment at TriState Capital Bank
- 6) Memo regarding the 2020 Annual Newsletter
- 7) Memo regarding the 2020 Unsewered Area Plan Update
- 8) Memo regarding Grant and Lee Unsewered Area
- 9) Memo regarding Sludge Hauling and Land Application Contract Award
- 10) Memo regarding Composting Pilot
- 11) Memo regarding CHP Systems Comparison
- 12) Memo regarding CHP Replacement Project Delivery Method

BOLI Meeting

There is no BOLI meeting scheduled this month.

Operations Reports

Copies of the following are enclosed for March operations:

- 1) Progress Report from Clay on Administrative Services activities.
- 2) The WWTC Operations Report from Marc.
- 3) The WWTC/Lift Station Maintenance Report from Jeff.
- 4) Progress Report from Bob on Collection System Maintenance activities.
- 5) Progress Report from Ted on Collection System Construction activities.
- 6) Progress Report from Reese on Laboratory activities.

Infiltration/Inflow Removal Work

Inspection efforts on private property under the I/I program with the intention of conducting I/I removal is ongoing in the 1-K-028 (Cass and Burlington, WT) area. A map showing progress for this area is included here, as well as a status summary sheet.

Flow metering continues, including meters in the 1-M-050 (55th and Victor, DG) vicinity to evaluate post-rehabilitation and I/I reduction performance. Data collected during recent storms shows that the local system appears to be operating satisfactorily.

Financial

A copy of the Investment Schedule as of March 31, 2020 is enclosed.

The Treasurer's Report for March 2020 covering the first eleven months of FY 19-20 is included here, along with a summary cover memo.

Meetings

I attended the following meetings since the March 13, 2020 General Manager's report:

- March 18 attended webinar sponsored by the Danish Water Technology Alliance titled "Wastewater Treatment More for Less". Alex also attended.
- March 19 attended webinar sponsored by WEF titled "Pandemic Continuity of Operations Essential Personnel". Marc also attended.
- March 20 attended webinar sponsored by WEF titled "Clean Water Act Regulatory Issues in a Pandemic"
- March 25 attended webinar by Seyfarth Shaw titled "Families First Coronavirus Response Act Debrief"
- April 2 attended a NACWA webinar titled "Responding to COVID-19: Insights & Resources for Clean Water Utilities"
- April 9 attended virtual DRSCW Executive Board meeting. Larry also attended.

Miscellaneous

I took ten hours of vacation time during the week of March 23rd through March 27th.

Copies of the following items are enclosed:

- 1) March 16, 2020 website submission
- 2) March 18, 2020 memo to District staff regarding coronavirus response measures sick time
- 3) March 20, 2020 e-mail to District staff regarding Stay at Home Order
- 4) General Manager's Reports to the Employees dated March 27, 2020 and April 9, 2020
- 5) April 3, 2020 memo to District staff regarding Families First Coronavirus Response Act and Emergency Paid Sick Leave for Full-Time District Employees

cc: WDVB, AES, PWC, BOLI, TTC, WCC, MGP

DOWNERS GROVE SANITARY DISTRICT BOARD OF TRUSTEES MEETING APRIL 21, 2020 – 7:00 PM

PROPOSED AGENDA

- I. APPROVAL OF MINUTES
 - A. REGULAR MEETING MARCH 17, 2020
- II. APPROVAL OF CLAIM ORDINANCE NO. 1888
- III. PUBLIC COMMENT
- IV. OLD BUSINESS
- V. NEW BUSINESS
 - A. INSURANCE EMPLOYEE GROUP COVERAGE
 - B. INVESTMENT IN CERTIFICATE OF DEPOSIT
 - 1. TRISTATE CAPITAL BANK
 - C. ANNUAL NEWSLETTER REVIEW
 - D. UNSEWERED AREA PLAN UPDATE
 - E. SLUDGE HAULING AND LAND APPLICATION CONTRACT AWARD
 - F. COMPOSTING PILOT
 - G. ENGINEERING REPORT
 - 1. CHP SYSTEMS COMPARISON
 - 2. CHP REPLACEMENT PROJECT DELIVERY

MINUTES

The monthly meeting of the Downers Grove Sanitary District Board of Trustees was held on Tuesday, March 17, 2020, convening at 7:00 p.m. The meeting was held at the District's Administration Center, 2710 Curtiss Street, Downers Grove. Present were President Wallace D. Van Buren, Trustee Amy E. Sejnost, and Trustee Paul W. Coultrap, General Manager Amy. R. Underwood, Administrative Supervisor W. Clay Campbell, Staff Engineer Alex M. Bielawa and Attorney Michael G. Philipp. Mitch Backes of Corkill Insurance Co. also attended.

Minutes of Regular Meeting – February 11, 2020

A motion was made by Trustee Coultrap seconded by Trustee Sejnost approving the minutes of the regular meeting held on February 11, 2020 as presented and authorizing the President and Clerk to sign same. The motion carried.

Minutes of Executive Session – February 11, 2020

A motion was made by Trustee Coultrap seconded by Trustee Sejnost approving the minutes of the executive session held on February 11, 2020 as presented and authorizing the President and Clerk to sign same. The motion carried.

Claim Ordinance No. 1887

A motion was made by Trustee Sejnost seconded by Trustee Coultrap adopting Claim Ordinance No. 1887 in the total amount of \$751,621.56 as presented and authorizing the President and Clerk to sign same. The motion carried. (Votes recorded: Ayes–Van Buren, Sejnost and Coultrap.)

Public Comment - None

Old Business - None

New Business:

Appointment of General Manger

A motion was made by Trustee Sejnost seconded by Trustee Coultrap appointing Amy R. Underwood as General Manager effective March 17, 2020. The motion carried. (Votes recorded: Ayes–Van Buren, Sejnost and Coultrap.)

Revision of Authorized Bank Account Signer

Administrative Supervisor Campbell presented a memo reviewing the current arrangement of District bank accounts and authorized signers and recommended a change to the authorized signers by removing Nicholas J. Menninga and adding Amy R. Underwood as General Manager. A motion

was made by Trustee Coultrap seconded by Trustee Sejnost to remove Nicholas J. Menninga from the authorized signers list on the District bank and investment accounts and to add Amy R. Underwood as General Manager to the authorized signers list on the District bank and investment accounts and authorizing all necessary signatures to effectuate such a change. The motion carried. (Votes recorded: Ayes–Van Buren, Sejnost and Coultrap.)

Five Year Financial Plan and Budget Approval – FY 2020-21

The Five Year Financial Plan and Budget were presented at the February Board meeting and have been available for public review since February 13 following a public notice of availability. A motion was made by Trustee Sejnost seconded by Trustee Coultrap approving the Five Year Financial Plan for Fiscal Years 2020-21 to 2024-25 which includes the budget for Fiscal Year 2020-21. The motion carried. (Votes recorded: Ayes–Van Buren, Sejnost and Coultrap.)

Adopt Appropriation Ordinance for Fiscal Year 2020-21

The Fiscal Year 2020-21 Appropriation Ordinance was presented at the February Board meeting and has been available for public review since February 13 following a public notice of availability. The Ordinance establishes the spending limits for the year including operation and maintenance and capital improvements for all areas of District operations. A motion was made by Trustee Sejnost seconded by Trustee Coultrap adopting the Fiscal Year 2020-21 Appropriation Ordinance and authorizing the President and Clerk to sign same. The motion carried. (Votes recorded: Ayes–Van Buren, Sejnost and Coultrap.)

Adopt Ordinance Amending Fees

General Manager Underwood presented Ordinance No. ORD 20-01. This ordinance increases various District fees and charges to the following amounts:

- a) Permit inspection fees \$223 per building sanitary service for single family class or \$369 per building sanitary service (or \$213 per building sanitary service if no work on building sanitary service is required) for all other classes.
- b) Tap-in fee \$928 per population equivalent (P.E.).
- c) Trunk sewer service charges \$430 per P.E.
- d) Lateral sewer charge \$11,965 per building drain to near side property and \$8,667 per building drain to far side property.
- e) Sewer construction inspection fee \$70.50 per hour straight time and \$105.75 per hour overtime.
- f) Basic user rate \$1.80 per 1000 gallons of water (or \$43.20 per quarter for all non-metered single family residential users).
- g) Surcharge rate \$0.28 per pound for biochemical oxygen demand (BOD) and \$0.40 per pound for suspended solids (SS).
- h) Sampling and monitoring charge This charge will vary from \$5.75 per month to \$127.71 per month depending on the type of user.

A motion was made by Trustee Coultrap seconded by Trustee Sejnost adopting Ordinance No. ORD 20-01 and authorizing the President and Clerk to sign same. The motion carried. (Votes recorded: Ayes–Van Buren, Sejnost and Coultrap.)

Business Insurance Renewals for FY 20-21

Administrative Supervisor Campbell reviewed the proposal for renewal of the District's property and liability coverages with effective dates of April 7 and April 14. The proposal included General Liability, Automobile, Public Officials Liability, Umbrella Liability, Fidelity and Crime, Property, Cyber-Liability and Workers Compensation. Staff's recommendation is to renew the Property, General Liability, Automobile, Public Officials Liability, Umbrella Liability, Fidelity and Crime and Workers Compensation lines of coverage with Selective Insurance Group, Inc. The Property policy with Selective includes Equipment Breakdown coverage through Inland Marine. Staff also recommended to renew the existing Cyber-Liability coverage through Travelers and the existing Tank Storage Pollution Liability coverage through Crum & Forster. By making these changes, total annual premiums are proposed at \$207,707. A motion was made by Trustee Coultrap seconded by Trustee Sejnost authorizing the Administrative Supervisor to renew the District's insurance coverages as presented in his March 13, 2020 memo. The motion carried. (Votes recorded: Ayes–Van Buren, Sejnost and Coultrap.)

<u>Investment in Certificate of Deposit – Evergreen Bank Group</u>

Administrative Supervisor Campbell reviewed staff's purchase on February 13, 2020 of a twelve-month Certificate of Deposit with Evergreen Bank Group in the amount of \$250,000 with an annual interest rate of 1.99 percent. The Certificate of Deposit is secured by the FDIC. A motion by Trustee Sejnost seconded by Trustee Coultrap was made ratifying the actions of staff on behalf of the District to open a Certificate of Deposit on February 13, 2020 in the amount of \$250,000 with Evergreen Bank Group at an interest rate of 1.99 percent and a term of twelve months. The motion carried. (Votes recorded: Ayes—Van Buren, Sejnost and Coultrap.)

Investment in Certificate of Deposit – First Midwest Bank

Administrative Supervisor Campbell reviewed staff's purchase on February 21, 2020 of a twelvemonth Certificate of Deposit with First Midwest Bank in the amount of \$250,000 with an annual interest rate of 1.50 percent. The Certificate of Deposit is secured by the FDIC. A motion by Trustee Coultrap seconded by Trustee Sejnost was made ratifying the actions of staff on behalf of the District to open a Certificate of Deposit on February 21, 2020 in the amount of \$250,000 with First Midwest Bank at an interest rate of 1.50 percent and a term of thirteen months. The motion carried. (Votes recorded: Ayes–Van Buren, Sejnost and Coultrap.)

Recapture Agreement – 5911 Springside Ave., Downers Grove

General Manager Underwood presented a Recapture Agreement between the District and property owners, Amy Romano and Robert Sheppard. The Agreement is for a sanitary sewer extension on Springside Avenue between 59th Street and Boundary Road in Downers Grove. A motion was

made by Trustee Coultrap seconded by Trustee Sejnost approving the Recapture Agreement for the sanitary sewer extension on Springside Avenue between 59th Street and Boundary Road in Downers Grove and authorizing the General Manager and Assistant Clerk to sign same. The motion carried. (Votes recorded: Ayes–Van Buren, Sejnost and Coultrap.)

Coronavirus Response Measures

General Manager Underwood presented a memo regarding the District's response to the recent coronavirus outbreak. Staff identified the need for flexibility to award sick time to employees in order to discourage attendance at work of employees who may be displaying symptoms of, been exposed to, or have been diagnosed with coronavirus. A motion was made by Trustee Coultrap seconded by Trustee Sejnost to empower the General Manager to award additional sick time as needed outside the framework of the District's HR manual and authorizing the President and Clerk to sign same. The motion carried. (Votes recorded: Ayes–Van Buren, Sejnost and Coultrap.)

Other New Business

Trustee Van Buren congratulated and welcomed Amy Underwood as the District's new General Manager and inquired about the status of replacing District's CHP #1.

Trustee Sejnost congratulated and welcomed Amy Underwood as the District's new General Manager. She recommended that District staff post on its website and social media channels content related to best practices for "What Not To Flush" down the drain to remind the District's customers of proper use of the communities' sewer system infrastructure. She also commended staff on the decision to close the District Admin Center to the public until April 7 in anticipation of a Shelter-In-Place order from the State of Illinois.

Trustee Coultrap also congratulated and welcomed Amy Underwood as the District's new General Manager and wished all employees to stay healthy during the current COVID-19 pandemic.

A motion was made by Trustee Coultrap seconded by Trustee Sejnost to adjourn the regular meeting at 7:47 p.m. The motion carried.

Approved: April 21, 2020		
	President	
Attest:		
Clerk		

Downers Grove, Illinois

Date: April 21, 2020

Claim Ordinance No. 1888

An Ordinance Providing for the Payment of Certain Claims.

WHEREAS, it appears to the Board of Trustees of the Downers Grove Sanitary District that there are certain claims against said District which would be allowed and paid therefore,

BE IT ORDAINED, by the Board of Trustees of the Downers Grove Sanitary District

That the following claims be and they are hereby approved and ordered paid and that an order be drawn on the Treasurer of said District out of the funds shown below. Said claims, totaling \$654,328.54 being in words and figures as follows:

GENERAL LEDGER RECAP

DATE 03/17/20 PERIOD END 03/15/20 PAGE 4

Payroll Ending Date: 03/15/20
Payroll Paid Date: 03/17/20
GL Date: 04/30/20

	COST DESCRIPTION	DEBIT	CREDIT
	CASH - PAYROLL ACCOUNT		25915.31
01-00.2000	FEDERAL TAX WITHHELD		4768.94-
01-00.2001	STATE TAX WITHHELD		1878.80-
01-00.2002	SOCIAL SECURITY WITHHELD		3230.80-
01-00.2003	IMRF WITHHELD		1900.48-
01-00.2013	CREDIT UNION WITHHELD		800.00-
01-00.2014	VOLUNTARY ADDITIONAL PENSION CONTRIBUTION		1705.44-
01-00.2017	VOLUNTARY GROUP LIFE		16.00-
01-00.2020	DEFERRED COMPENSATION WITHHELD - ICMARC		300.00-
01-00.2021	FLEXIBLE ACCOUNT WITHHELD - MEDICAL		62.83-
01-00.2024	FLEXIBLE ACCOUNT WITHHELD - PREM CONVERSION		378.95-
01-00.2025	EMPLOYEE INS PREM CONTRIBUTION - POST TAX		285.62-
01-00.2026	DEFERRED COMPENSATION WITHHELD - IPPFA		1204.97-
01-00.2028	DC PLAN LOAN REPAYMENT WITHHELD		77.06-
01-11.A003	GENERAL MANAGEMENT	17260.45	
01-11.A004	FINANCIAL RECORDS	292.87	
01-11.A005	ADMINISTRATIVE RECORDS	451.22	
01-11.A007	CODE ENFORCEMENT	11114.29	
01-11.A008	SAFETY ACTIVITIES	35.97	
01-11.A030	BUILDING AND GROUNDS	57.72	
01-12.A009	OPERATIONS MANAGEMENT	4546.89	
01-12.A011	MAINTENANCE - WWTC	3560.08	
01-12.A014	MAINTENANCE - ELECTRICAL	520.95	
01-12.A021	WWTC - OPERATIONS	204.13	
01-12.A022	WWTC - SLUDGE HANDLING	77.36	
01-12.A023	WWTC - ENERGY RECOVERY	38.68	
01-12.A030	BUILDING AND GROUNDS	405.00	
01-13.A009	OPERATIONS MANAGEMENT	3373.41	
01-13.A042	LAB - PRETREATMENT	499.09	
01-15.A080	LIFT STATION MAINTENANCE	87.09	

42525.20 42525.20-

GENERAL LEDGER RECAP

DEBIT

78922.42

78922.42-

Payroll Ending Date: 03/21/20

Payroll Paid Date: 03/27/20

04/30/20

GL Date:

CREDIT

COST DESCRIPTION

G/L NUMBER

PERIOD END 03/21/20 PAGE 6 DATE 03/27/20

______ 01-00.1001 CASH - PAYROLL ACCOUNT 50058.22-01-00.2000 FEDERAL TAX WITHHELD 8414.41-01-00.2001 STATE TAX WITHHELD 3567.17-01-00.2002 SOCIAL SECURITY WITHHELD 5927.22-01-00.2003 IMRF WITHHELD 3476.44-01-00.2012 WAGE DEDUCTION ORDER 254.66-01-00.2013 CREDIT UNION WITHHELD 2214.31-01-00.2014 VOLUNTARY ADDITIONAL PENSION CONTRIBUTION 2763.52-01-00.2021 FLEXIBLE ACCOUNT WITHHELD - MEDICAL 396.23-01-00.2022 FLEXIBLE ACCOUNT WITHHELD - DEPENDENT CARE 192.31-01-00.2024 FLEXIBLE ACCOUNT WITHHELD - PREM CONVERSION 853.75-01-00.2025 EMPLOYEE INS PREM CONTRIBUTION - POST TAX 337.80-01-00.2026 DEFERRED COMPENSATION WITHHELD - IPPFA 264.11-01-00.2027 DEFERRED COMPENSATION WITHHELD - IPPFA ROTH 40.00-01-00.2028 DC PLAN LOAN REPAYMENT WITHHELD 162.27-GENERAL MANAGEMENT 789.95 01-11.A003 01-11.A004 FINANCIAL RECORDS 6134.22 01-11.A005 ADMINISTRATIVE RECORDS 599.02 01-11.A007 CODE ENFORCEMENT 7539.71 01-11.A008 SAFETY ACTIVITIES 780.00 ENGINEERING 01-12.A006 2046.89 01-12.A011 MAINTENANCE - WWTC 9997.40 01-12.A013 MAINTENANCE - ENERGY RECOVERY 67.58 01-12.A014 MAINTENANCE - ELECTRICAL 5884.86 01-12.A021 WWTC - OPERATIONS 14081.94 01-12.A022 WWTC - SLUDGE HANDLING 5697.15 01-12.A023 WWTC - ENERGY RECOVERY 218.46 BUILDING AND GROUNDS 3893.42 01-12.A030 01-13.A041 LAB - WWTC 5290.13 01-14.A006 ENGINEERING 25.91 01-14.A051 SEWER MAINTENANCE 7827.18 01-14.A054 SEWER MAINTENANCE - BACKUPS AND HIGH FLOWS 246.88 01-14.A062 INSPECTION - CONSTRUCTION OF DGSD PROJECTS 2183.27 01-14.A063 INSPECTION - PERMIT INSPECTIONS 287.57 01-14.A064 INSPECTION - MISCELLANEOUS 859.59 01-14.A065 INSPECTION - CONSTR BY VILLAGES, UTILITIES 24.71 01-14.A066 INSPECTION - CODE ENFORCEMENT 3143.40 01-15 A080 LITET STATION MAINTENANCE 1303.18

GENERAL LEDGER RECAP

DATE 04/02/20 PERIOD END 03/31/20 PAGE 4

	COST DESCRIPTION		
01-00.1001	CASH - PAYROLL ACCOUNT		25884.56-
01-00.2000	FEDERAL TAX WITHHELD		4753.59-
01-00.2001	STATE TAX WITHHELD		1874.90-
01-00.2002	SOCIAL SECURITY WITHHELD		3224.47-
01-00.2003	IMRF WITHHELD		1896.74-
01-00.2013	CREDIT UNION WITHHELD		800.00-
01-00.2014	VOLUNTARY ADDITIONAL PENSION CONTRIBUTION		1701.83-
01-00.2017	VOLUNTARY GROUP LIFE		80.00-
01-00.2020	DEFERRED COMPENSATION WITHHELD - ICMARC		300.00-
01-00.2021	FLEXIBLE ACCOUNT WITHHELD - MEDICAL		62.83-
01-00.2024	FLEXIBLE ACCOUNT WITHHELD - PREM CONVERSION		378.95-
01-00.2025	EMPLOYEE INS PREM CONTRIBUTION - POST TAX		285.62-
01-00.2026	DEFERRED COMPENSATION WITHHELD - IPPFA		1204.65-
01-00.2028	DC PLAN LOAN REPAYMENT WITHHELD		77.06-
01-11.A003	GENERAL MANAGEMENT	17981.58	
01-11.A004	FINANCIAL RECORDS	387.22	
01-11.A005	ADMINISTRATIVE RECORDS	221.40	
01-11.A007	CODE ENFORCEMENT	10893.92	
01-11.A008	SAFETY ACTIVITIES	95.29	
01-12.A009	OPERATIONS MANAGEMENT	4047.14	
01-12.A011	MAINTENANCE - WWTC	4141.94	
01-12.A014	MAINTENANCE - ELECTRICAL	302.95	
01-12.A021	WWTC - OPERATIONS	549.03	
01-12.A022	WWTC - SLUDGE HANDLING	32.23	
01-13.A009	OPERATIONS MANAGEMENT	3516.84	
01-13.A041	LAB - WWTC	355.66	
		42525.20	42525.20-
		12323.20	12020.20

Payroll Ending Date: 03/31/20 Payroll Paid Date: 04/03/20 GL Date: 04/30/20

====== VENDOR ======	======	===== IN	VOICE =====					
NAME	NUMBER	DATE	NUMBER	G/L NUMBER	EXPENSE DESCRIPTION	EXPENSE	CHECK AMT	CHECK NO
AT & T MOBILITY	A000085	04/03/20	831873915	01-15.B112	LS Cell Dialer	53.65	53.65	062320
ADVOCATE OCCUPATIONAL HEALTH	A000150	03/31/20	762045	01-11.B117	Drug Screening	27.00		
		03/31/20	764474	01-11.B117	Drug Screening	56.00	83.00	062321
ADVANCED DISPOSAL	A000153	03/31/20	T8009072	01-12.B102	Garbage & Recycling	305.75	305.75	062322
ALEXANDER CHEMICAL CORPORATION	A000200	03/31/20	22291	01-12.B401	Sodium Hypochlorite	3299.97		
		03/29/20	22828	01-12.B404	Soda Ash	833.00	4132.97	102157
ALLIED GARAGE DOOR, INC.	A000253	03/19/20	0000149918	01-12.B805	Bar Scrn Bld Door Replace	8779.05		
		03/30/20	0000150368	01-12.B804	Grit Bldg Door Replace	2373.84	11152.89	062363
ALLIED WASTE SERVICE	A000255	03/15/20	551014777726	01-12.B102	Grit Scrn Dumpster Rent	72.58		
		03/31/20	551014800146	01-12.B102	Grit Scrn Dumpster	840.64	913.22	062323
ALTORFER INDUSTRIES, INC.	A000292	04/10/20	PM600288873	01-15.B525	Liberty Park Gen Repair	1212.06		
		04/10/20	PM600288874	01-15.B529	Port Generator 350 PM	1049.01		
		04/10/20	PM600288875	01-15.B524	Hobson LS Gen Repair	965.91		
		04/10/20	PM600288876	01-12.B513	Emer Gen 3 PM	853.82		
		04/10/20	PM600288877	01-12.B513	Emer Gen 1 PM	921.82	5002.62	102158
SYNCHB/AMAZON	A000295	03/28/20	455777539435	01-12.B117	Face Shields	60.43		
		03/06/20	466939593447	01-12.B507	ABS Blower UPS	119.92		
		03/25/20	467439677399	01-12.B116	Charger Cable and Plug	46.98		
		04/02/20	468593553637	01-14.B117	Face Shields	13.43		
		03/30/20	473794573338	01-12.B513	Belt Press Network Switch	56.95		
		03/24/20	478958859965	01-11.B115	Computer Jacks	36.80		
		03/14/20	534846466737	01-11.B115	Computer Supplies	43.99		
		03/13/20	667996553983	01-12.B117	Face Shields	134.19		
		03/13/20	667996553983	01-13.B117	Face Shields	22.37		
		03/13/20	667996553983	01-14.B117	Face Shields	67.09		
		03/25/20	684983845779	01-11.B115	Chromebooks	867.00	1469.15	062324
B GUNTHER & COMPANY	в000010	03/31/20	78015	01-11.B116	Name Plate ARU GM	26.83	26.83	062364
BAXTER & WOODMAN, INC.	в000120	03/20/20	0212234	01-14.B124	Flow Monitoring	429.30		
		03/20/20	0212236	01-14.B902	Outfall Sewer Sag Repair	812.08		
		03/20/20	0212237	01-12.B508	WAS Thickener	1816.19		
		03/20/20	0212241	01-11.B124	Misc Engineering Services	2250.13		
		03/20/20	0212243	01-12.B501	Sludge Storage Bldg	1425.00	6732.70	102159
ALEX BIELAWA	в000196	03/24/20	Reimburse	01-11.B117	CSWEA Seminar	40.00	40.00	102160
NICHOLAS BIRCH	в000230	02/17/20	70840	01-12.B116	Bioscrub & Dispenser	259.56	259.56	062365
CALLONE	C000073	04/15/20	233290	01-11.B112	Admin Phone Service	617.11		
		04/15/20	233290	01-12.B112	WWTC Phone Service	287.69	904.80	102161
WILLIAM C CAMPBELL	C000075	03/20/20	Reimburse	01-11.B115	Chromebook For ST	324.42		
		04/09/20	Reimburse 3	01-11.B115	Web Cam	164.69	489.11	102162
MARY CANTY	C000080	04/01/20	Rebate SA 57	01-00.2007	SA 57 Rebate	265.30	265.30	062366
CHICAGO METROPOLITAN FIRE	C000240	04/05/20	IN00331413	01-12.B113	Radio Use/Maint	60.00	60.00	062325
CINTAS #344	C000300	01/03/20	4039116954	01-12.B117	WWTC Uniform Rentals	133.80		
		01/03/20	4039116954	01-14.B117	SS Uniform Rentals	27.99		
		01/10/20	4039755081	01-12.B117	WWTC Uniform Rentals	75.15		
			4039755081 4039755081		WWTC Uniform Rentals SS Uniform Rentals	75.15 21.46		
		01/10/20		01-14.B117				

			VOICE =====					
NAME	NUMBER	DATE	NUMBER	G/L NUMBER	EXPENSE DESCRIPTION	EXPENSE	CHECK AMT	CHECK NO
		03/23/20	4045284911	01-12.B117	WWTC Uniform Rentals	62.48		
		03/23/20	4045284911	01-14.B117	SS Uniform Rentals	14.07		
		03/20/20	4045929665	01-12.B117	WWTC Uniform Rentals	62.48		
		03/20/20	4045929665	01-14.B117	SS Uniform Rentals	14.07		
		03/27/20	4046541599	01-12.B117	WWTC Uniform Rental	61.97		
		03/27/20	4046541599	01-14.B117	SS Uniform Rental	13.56		
		04/03/20	4047157405	01-12.B117	WWTC Uniform Rental	61.97		
		04/03/20	4047157405	01-14.B117	SS Uniform Rental	13.56		
		04/10/20	4047753255	01-12.B117	WWTC Uniform Rental	61.97		
		04/10/20	4047753255	01-14.B117	SS Uniform Rental	13.56		
		04/17/20	4048307964	01-12.B117	WWTC Uniforms	61.97		
		04/17/20	4048307964	01-14.B117	SS Uniforms	13.56	785.17	062326
CINTAS FIRST AID & SAFETY	C000320	03/16/20	5016430819	01-11.B116	Admin First Aid Supplies	107.75		
		03/16/20	5016430819	01-12.B113	WWTC First Aid Supplies	131.34		
		04/14/20	5016823019	01-11.B116	Admin First Aid Supplies	39.46		
		04/14/20	5016823019	01-12.B113	WWTC First Aid Supplies	109.79	388.34	062327
COLE-PARMER	C000345	03/27/20	2204798	01-13.B114	Lab Chemicals	424.70		
		04/01/20	2209222	01-13.B116	Lab Supplies	648.00	1072.70	062328
COLLEY ELEVATOR CO.	C000370	04/01/20	195768	01-12.B805	6 Month Elev Inspect Serv	741.00	741.00	102163
COMCAST	C000373	04/03/20	201200550568	01-11.B112	Internet Service	148.35	148.35	062329
COMED	C000380	03/16/20	0055025057	01-15.B100	College LS Elec	269.11		
		03/16/20	0068029014	01-15.B100	Centex LS Elec	84.50		
		03/16/20	0120089072	01-15.B100	Wroble LS Elec	419.19		
		03/16/20	0458029046	01-15.B100	Liberty Park LS Elec	273.02		
		03/23/20	0562080004	01-15.B100	Venard LS Elec	351.94		
		03/16/20	1095091170	01-15.B100	Northwest LS Elec	830.91		
		03/16/20	1810068039	01-15.B100	Earlston LS Elec	202.80		
		03/16/20	3240038012	01-15.B100	Butterfield LS Elec	125.38		
		03/16/20	4657083017	01-15.B100	Hobson LS Elec	1339.32		
		03/25/20	6770572011	01-00.2005	BSSRAP Contractor Yrd Elc	239.43		
		03/25/20	6770572011	01-12.B100	Walnut House Elec	71.74		
		03/25/20	8762083052	01-12.B100	Big Top Elec	89.18	4296.52	062330
COMPASS MINERALS	C000399	04/02/20	618551	01-12.B401	Solar Salt	4553.42	4553.42	062331
CONCENTRIC INTEGRATION, LLC	C000410	03/20/20	0212239	01-11.B115	Support Services	1968.90		
		03/20/20		01-15.B529	Support Services	1073.51	3042.41	102164
CORE & MAIN LP	C000485	03/27/20	M1027703	01-14.B913		736.00		
		03/31/20	M137550	01-12.B512	Maint Repair Supplies	1367.20		
		04/02/20	M144687	01-12.B512	Maint Repair Supplies	862.86	2966.06	062332
CURTIS MARTIN GROUP, INC.	C000660	03/17/20	7496		PR W-4 Project	300.00		
		03/21/20			PR W-4 Update Project	120.00		
		03/30/20			Fix Remote & PR Issues	1560.00		
		04/06/20			Paystub Fix & PR W-4 Proj	960.00	2940.00	102165
DELTA INDUSTRIES, INC.	D000210	03/30/20			ODS Air Compressor PM	962.76	962.76	102166
DELTA SONIC	D000220		10033324		WWTC Vehicle Washes	15.00		
			10033321	01-14.C225	SS Vehicle Washes	59.00	74.00	062333
		, -0, 20			, ,	-2.00	, 1.00	2000

NAME	NUMBER	DATE	NUMBER	G/L NUMBER	EXPENSE DESCRIPTION	EXPENSE	CHECK AMT	CHECK NO
		03/27/20	1685325	01-15.B100	Venard LS Elec	351.48		
		03/19/20	1685326	01-15.B100	Northwest LS Elec	1004.73		
		04/13/20	1685327	01-11.B100	Admin Elec	124.47		
		04/13/20	1685327	01-12.B100	WWTC Elec	3756.79		
		03/19/20	1685330	01-15.B100	Hobson LS Elec	1465.15	7259.03	062334
VILLAGE OF DOWNERS GROVE	D000480	03/13/20	161019	01-11.C222	Admin Vehicle Fuel	53.31		
		03/13/20	161019	01-12.B812	Gas Can Fuel	145.25		
		03/13/20	161019	01-12.C222	WWTC Vehicle Fuel	1118.18		
		03/13/20	161019	01-13.C222	Lab Vehicle Fuel	30.65		
		03/13/20	161019	01-14.C222	SS Vehicle Fuel	967.04		
		03/13/20	161019	01-15.B529	LS Gen Fuel	154.98		
		03/16/20	161022	01-11.C222	Admin Vehicle Fuel	97.33		
		03/16/20	161022	01-12.B812	Gas Can Fuel	59.04		
		03/16/20	161022	01-12.C222	WWTC Vehicle Fuel	713.24		
		03/16/20	161022	01-13.C222	Lab Vehicle Fuel	25.58		
		03/16/20	161022	01-14.C222	SS Vehicle Fuel	879.45		
		03/16/20	161022	01-15.B529	LS Gen Fuel	51.68		
		03/25/20	161139	01-12.B113	Elevator Inspection	142.00	4437.73	062335
DUPAGE COUNTY RECORDER	D000620	03/16/20	40119263	01-11.B121	Lien Release	11.00	11.00	062336
EXODUS TECHNOLOGY SERVICE	E000480	04/01/20	20-137	01-11.B115	PC Upgrades	1162.50	1162.50	062337
EYE MED VISION CARE	E000600	04/01/20	164273724	01-17.E455	Vision Insurance	444.29	444.29	062338
FASTENAL COMPANY	F000060	11/11/19	ILWES72845	01-12.B113	Gloves	27.16	27.16	102167
FIRST ADVANTAGE	F000130	03/31/20	2502012003	01-12.B117	Admin Fees	9.11	9.11	102168
FIRST ENVIRONMENTAL LAB	F000140	03/26/20	153770	01-13.B123	Spring Biosolids Analysis	711.60		
		03/26/20	153772	01-13.B123	Spring Influent Analysis	676.80		
		03/26/20	153773	01-13.B123	Spring Effluent Analysis	777.60	2166.00	102169
FOSTERS TRUCK REPAIR	F000270	04/06/20	36108	01-12.C225	Bio Truck Safety Lane	40.50	40.50	062339
FULLIFE LLC	F000440	03/09/20	51901	01-12.B116	Gloves	260.02		
		03/11/20	51902	01-12.B513	Gloves	30.82		
		03/25/20	52028	01-12.B113	Gas Monitor Calibration	318.64	609.48	062340
GSM FILTRATION, INC	G000080	03/12/20	3816	01-12.B509	Belts For Belt Press	1557.61	1557.61	102170
GARLAND MANUFACTURING CO	G000190	03/12/20	0199035-IN	01-12.B506	Primary Clar Part Repair	1456.87		
		04/01/20	0199370-IN	01-12.B506	Addtl Freight	55.00	1511.87	062341
W. W. GRAINGER, INC.	G000520	03/12/20	9472440677	01-12.B503	See Sheet	29.37		
		03/12/20	9472455253	01-12.B113	See Sheet	164.40		
		03/12/20	9472894766	01-12.B116	See Sheet	141.33		
		03/12/20	9473194430	01-12.B511	See Sheet	57.90		
		03/13/20	9473643352	01-12.B113	See Sheet	38.44		
		03/13/20	9473677772	01-12.B512	See Sheet	31.03		
		03/18/20	9478392997	01-12.B116	See Sheet	12.92		
		03/18/20	9478837124	01-12.B513	See Sheet	57.68		
		03/19/20	9479574205	01-12.B513	See Sheet	235.85		
		03/20/20	9481065580	01-12.B512	See Sheet	139.74		
		04/01/20	9492164950	01-12.B512	See Sheet	8.56		
		04/02/20	9493717004	01-12.B116	See Sheet	43.36		
		04/08/20	9496573766	01-12.B512	See Sheet	63.97		

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NAME	NUMBER	DATE	NUMBER	G/L NUMBER	EXPENSE DESCRIPTION	EXPENSE	CHECK AMT	CHECK NO
		04/08/20	9498645903	01-12.B116	See Sheet	17.15		
		04/08/20	9499694595	01-11.B116	See Sheet	37.45	1079.15	102171
HML, INC.	н000035	03/19/20	76128	01-13.B123	Biosolids Salmonella Test	480.00		
		03/19/20	76129	01-13.B123	Biosolids Salmonella Test	480.00		
		03/25/20	76216	01-13.B123	Biosolids Salmonella Test	240.00		
		03/25/20	76217	01-13.B123	Biosolids Salmonella Test	480.00	1680.00	062342
HACH COMPANY	Н000040	03/20/20	11888466	01-14.B115	Flow Meter Repair	1651.65		
		03/23/20	11891081	01-14.B115	Flow Meter Repair	1651.65		
		03/23/20	11891085	01-14.B115	Flow Meter Repair	1651.65		
		03/23/20	11891086	01-14.B115	Flow Meter Repair	1651.65	6606.60	102172
HARBOR FREIGHT TOOLS	н000060	03/16/20	914392	01-14.B116	Gloves	38.97	38.97	062343
HOME DEPOT	н000400	03/17/20	1011677	01-12.B116	See Sheet	42.25		
		03/16/20	2011629	01-12.B116	See Sheet	74.94		
		03/25/20	3520184	01-14.B116	See Sheet	28.68		
		03/12/20	6031088	01-12.C225	See Sheet	24.18		
		03/19/20	9031723	01-12.B511	See Sheet	31.94	201.99	062344
IL ENV PROTECTION AGENCY	1000260	03/16/20	L17-3088-1	01-14.B929	Loan Payment	90795.59	90795.59	102173
IMPACT NETWORKING INC.	I000400	03/16/20	1739306	01-11.B115	Copier March	58.55		
		04/14/20	1763181	01-11.B115	Copier April	58.55	117.10	102174
INFOSEND, INC.	I000415	03/31/20	169667	01-11.B121	Customer Bill Mailings	3622.83	3622.83	102175
LINDA M. JIREK	J000110	04/01/20	Rebate SA 58	01-00.2007	SA 58 Rebate	456.80	456.80	062367
JULIE, INC.	J000250	03/31/20	DGSD0A	01-14.B127	JULIE Service	4185.36	4185.36	062345
KANSAS CITY LIFE INSURANCE CO	K000045	04/01/20	14887	01-17.E455	Life Insurance	402.50	402.50	102176
KARA COMPANY INC.	K000053	04/07/20	350632	01-14.B116	Marking Flags	107.20	107.20	102177
KIPP'S LAWNMOWER SALES	K000180	04/03/20	485680	01-12.B812	Diaphragm Pump Maint	243.52	243.52	062346
LOU'S GLOVES	L000300	03/12/20	033704	01-13.B116	Gloves	252.00		
		03/12/20	033737	01-12.B113	Gloves	168.00		
		04/06/20	034772	01-12.B113	Gloves	164.00	584.00	102178
MBM SERVICES INC.	M000010	04/16/20	32610	01-11.B118	Cleaning Service - Final	350.00	350.00	102179
MCMASTER-CARR SUPPLY COMPANY	M000360	03/17/20	36918001	01-12.B812	WWTC Door Repair Parts	56.45	56.45	102180
MENARDS - BOLINGBROOK	M000430	03/18/20	88912	01-12.B116	Plant Supplies	38.19		
		03/18/20	88912	01-12.B811	Microstrainer Parts	139.94	178.13	062347
MICRO CENTER	M000550	03/13/20	4974727	01-11.B115	Chromebook	244.97	244.97	102181
NATIONAL SAFETY COUNCIL	N000140	03/31/20	610561	01-11.B137	Membership	425.00	425.00	062348
NEW YORK BLOWER COMPANY	N000263	04/01/20	7605152	01-15.B824	Hobson LS Bio-Filter	1468.00	1468.00	062349
NICOR GAS	N000330	03/18/20	2833584	01-12.B101	Walnut House Gas	134.04		
		03/18/20	3892638	01-11.B101	Admin Center Gas	144.47		
		03/18/20	4440979	01-12.B101	Plant Gas	303.17		
		03/18/20	4664113	01-12.B101	Chem Feed Gas	149.69		
		03/18/20	4782107	01-12.B101	Plant 2 Gas	208.03	939.40	062350
NISSEN ENERGY INC	N000350	03/30/20	174	01-12.B513	CHP Oil & Parts	4608.29	4608.29	102182
OAK TRACE	0000060	04/17/20	Refund	01-05.3001	User Refund	2261.00	2261.00	062351
R.J. O'NEIL, INC.	0000290	04/14/20	3	01-12.B508	WAS Thickener	55190.70	55190.70	102183
ACI PAYMENTS INC.	0000300	03/15/20	1000020697	01-11.B110	OLR Fees	28.90		
		04/15/20	1000022502	01-11.B110	OLR Fees	35.70	64.60	102184
		01/15/20						102101

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NAME	NUMBER	DATE	NUMBER	G/L NUMBER	EXPENSE DESCRIPTION	EXPENSE	CHECK AMT	CHECK NO
PACKEY WEBB FORD	P000020	03/13/20	150292	01-12.C225	Auto Parts	119.87	119.87	102186
AUDREY F. PAREIGIS	P000060	03/16/20	Rebate SA 58	01-00.2007	SA 58 Rebate	456.80	456.80	062368
PETTY CASH	P000350	04/17/20	Cash Box	01-11.B116	Admin Supplies	49.22		
		04/17/20	Cash Box	01-11.B119	Postage Due	7.65		
		04/17/20	Cash Box	01-12.B117	CDL Reimburse	30.00		
		04/17/20	Cash Box	01-13.B116	Lab Supplies	10.85	97.72	062352
PIRTEK O'HARE	P000380	03/11/20	BO-T00000818	01-12.C225	Auto Parts	119.88	119.88	062353
POLYDYNE INC.	P000395	03/20/20	1441312	01-12.B402	Belt Press Polymer	4285.08	4285.08	102187
PORTER PIPE AND SUPPLY CO.	P000420	03/18/20	12040588-00	01-12.B502	Hypo Bldg Water Line Repr	433.82	433.82	102188
PRINCIPAL LIFE INSURANCE CO	P000650	04/01/20	1093099	01-17.E455	Dental Insurance	2507.61	2507.61	102189
RAPTOR TECH INC.	R000105	03/16/20	12514	01-12.B506	Pri 5 Crs Col Drv Hub Rep	665.00	665.00	102190
RED WING SHOE STORE	R000180	03/10/20	45-1-82818	01-11.B117	KG Boots	161.49	161.49	102191
JAMES AND RACHEL ROHDE	R000363	03/17/20	Rebate SA 58	01-00.2007	SA 58 Rebate	456.80	456.80	062369
SEAWAY SUPPLY CO.	S000200	03/19/20	154217	01-12.B116	MSB Supplies	294.40		
		03/26/20	154217-01	01-12.B116	MSB Supplies	128.00		
		03/19/20	154484	01-12.B116	MSB Supplies	97.00		
		03/30/20	155084	01-12.B116	MSB Supplies	220.76		
		04/02/20	155280	01-12.B116	MSB Supplies	194.60	934.76	102192
SIGNS NOW	S000390	03/24/20	SN195-57290	01-12.B501	Decals Bio-Truck	60.00	60.00	062354
SOIL & MATERIAL	S000445	02/29/20	45097	01-14.B902	Flow Basin Rehab Soil Tst	384.00	384.00	062355
SOUND INCORPORATED	S000480	03/13/20	68276	01-11.B115	Admin Milestone Software	3002.00		
		03/13/20	68276	01-12.B513	WWTC Milestone Software	6095.00	9097.00	102193
STAPLES INC.	S000640	04/04/20	8058082658	01-11.B116	Supplies	119.08	119.08	102194
STEPHENS PLUMBING AND	S000680	03/29/20	219709	01-14.B910	Shear Repair	661.75		
		04/03/20	219838	01-14.B910	Shear Repair	486.05	1147.80	062356
SUBURBAN DOOR CHECK & LOCK	S000850	03/27/20	IN525120	01-12.B116	Duplicate Keys	10.40	10.40	102195
SUBURBAN LIFE PUBLICATIONS	S000867	03/31/20	10071278	01-11.B124	Legal Publications	1263.92	1263.92	062357
TERRACE SUPPLY COMPANY	T000250	03/31/20	01010024	01-12.B116	Cylinder Rentals	52.70	52.70	102196
UNITED PARCEL SERVICE	U000300	03/14/20	3Y0091110	01-13.B123	Overnight Lab Samples	99.42		
		03/14/20	3Y0091110	01-14.B115	Flow Meter Shipment	32.31		
		03/21/20	3Y0091120	01-13.B123	Overnight Lab Sample	26.47	158.20	062358
UNO CONSTRUCTION CO., INC.	U000450	04/01/20	1111	01-12.B512	Exc Flow Scum Drain Line	2705.00		
		04/01/20	1112	01-12.B512	Exc Flow Scum Drain Line	4487.00		
		04/01/20			Exc Flow Scum Drain Line	3949.50		
		03/31/20			BSSRAP Projects	52561.91	63703.41	102197
VWR INTERNATIONAL INC.	V000030		8089536036		Face Shields	395.17		
			8089536036		Face Shields	65.87		
			8089536036		Face Shields	197.57	658.61	062359
VERIZON WIRELESS	V000135		542042956		WWTC Tablet Service	118.05		
	=		542042956		SS Tablet Service	87.48		
			542042956		LS Tablet Service	36.01		
			785846626		Admin Cell Service	291.11		
			785846626		WWTC Cell Service	1032.41		
			785846626		SS Cell Service	480.80		
			785846626		LS Cell Service	270.11	2315.97	062360
WACNED COMMINICATIONS THE	W000070							102198
WAGNER COMMUNICATIONS, INC	W000070	04/01/20	200400356	01-11.B112	Answering Service	400.05	400.05	102



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NAME	NUMBER	DATE	NUMBER	G/L NUMBER	EXPENSE DESCRIPTION	EXPENSE	CHECK AMT	CHECK NO	
WATER ENVIRONMENT FEDERATION	W000180	03/05/20	3-2000607663	01-11.B117	AB & ARU Membership	264.00			
		03/05/20	3-2000607663	01-12.B117	MRM Membership	170.00			
		03/05/20	3-2000607663	01-13.B117	DRB Membership	170.00			
		03/05/20	3-2000607663	01-14.B117	RPS Membership	105.00	709.00	062361	
WESTFAX	W000350	03/31/20	1354374	01-11.B112	EFax Service	8.99	8.99	102199	
VILLAGE OF WESTMONT	W000450	04/07/20	716345	01-11.B121	Meter Readings	370.01	370.01	062362	
						=======			
					Total Payments:	339819.68	339819.68		
					ACH Payments Total:	275192.49	.00		
				Cl	neck Payments Total:	64627.19	339819.68		



		D.3.000		C/I NUMBER	EVERYOR DESCRIPTION	- TIPPINGE	CITECU AND	arrage M
NAME	NUMBER	DATE	NUMBER	G/L NUMBER	EXPENSE DESCRIPTION	EXPENSE	CHECK AMT	CHECK N
AT&T	A000075	04/16/20	081267687503	01-11.B112	DSL Internet Service	74.46	74.46	102150
CHASE	в000050	03/30/20	PR 03/21/20	01-00.2000	Federal Tax	8414.41		
		03/30/20	PR 03/21/20	01-00.2002	Empl Soc Sec Tax	5927.22		
		03/30/20	PR 03/21/20	01-17.E461	Emplr Soc Sec Tax	5927.24	20268.87	102125
CHASE	в000050	03/19/20	SPR 03/17/20	01-00.2000	Federal Tax	4768.94		
		03/19/20	SPR 03/17/20	01-00.2002	Empl Soc Sec Tax	3230.80		
		03/19/20	SPR 03/17/20	01-17.E461	Emplr Soc Sec Tax	3230.84	11230.58	102130
CHASE	B000050	04/06/20	SPR 03/31/20	01-00.2000	Federal Tax	4753.59		
		04/06/20	SPR 03/31/20	01-00.2002	Empl Soc Sec Tax	3224.47		
		04/06/20	SPR 03/31/20	01-17.E461	Emplr Soc Sec Tax	3224.47	11202.53	102140
VILLIAM C CAMPBELL	C000075	03/20/20	Reimburse	01-11.B115	Chrome Books	1474.18	1474.18	102120
O.G. SANIT DIST #XXXXXXXXX111	7 D000400	04/22/20	Reimburse	01-00.1001	PR Acct Reimburse	101858.09	101858.09	102156
O.G. SANIT DIST #XXXXXXXXX111	4 D000420	04/22/20	Reimburse	01-05.3001	User Refund Acct Reimburs	2205.56	2205.56	102145
O.G. SANIT DIST #XXXXXXXXX1112	2 D000440	04/22/20	Reimburse	01-12.B116	MSB Supplies	71.92		
		04/22/20	Reimburse	01-17.E452	AK Notary Certificate	10.00	81.92	102155
DUPAGE CREDIT UNION	D000650	03/27/20	PR 03/21/20	01-00.2013	Empl Authorized W/Holding	2214.31	2214.31	102127
DUPAGE CREDIT UNION	D000650	03/19/20	SPR 03/17/20	01-00.2013	Empl Authorized W/Holding	800.00	800.00	102132
DUPAGE CREDIT UNION	D000650	04/03/20	SPR 03/31/20	01-00.2013	Empl Authorized W/Holding	800.00	800.00	102144
JESSICA GWOZDZ	G000630	03/20/20	Reimburse	01-11.B115	Chrome Book	263.34	263.34	102119
EALTH CARE SERVICE CORP.	нооо190	03/27/20	165585	01-17.E455	Health Insurance	40077.13	40077.13	102129
DEA MARKETING GROUP	1000030	03/01/20	5353	01-11.B115	Web Hosting	300.00	300.00	062313
LLINOIS DEPARTMENT OF REVENUE		03/30/20	PR 03/21/20	01-00.2001	State Tax	3567.17	3567.17	102126
LLINOIS DEPARTMENT OF REVENUE		03/30/20	SPR 03/17/20	01-00.2021	State Tax	1878.80	1878.80	102120
LLINOIS DEPARTMENT OF REVENUE		04/06/20	SPR 03/11/20	01-00.2021	State Tax	1874.90	1874.90	102131
LLINOIS MUNICIPAL	1000300	04/00/20	Pension	01-00.2001	Empl Pension Deposit	10807.59	1074.50	102141
EBENOIS MONICIPAL	1000300	04/09/20	Pension	01-00.2003	Empl Vol Pension Deposit	9056.25		
		04/09/20	Pension	01-00.2014 01-17.E460	Emplr Pension Deposit	25385.77	45249.61	102139
INVOICE CLOUD	1000750	04/09/20	607-2020-3	01-17.E400 01-11.B121	Biller Portal Fees	391.80	391.80	102154
INKEDIN	L000730	03/09/20	4459784566	01-11.B121 01-14.B117	Inspector Job Posting	363.58	363.58	102134
					-			
LINKEDIN	L000244	03/11/20	4465478136	01-14.B117 01-17.E455	Inspector Job Posting	22.44	22.44	102138
MIDAMERICA ADMIN HRA ACCOUNT	M000557	03/27/20	Funding	01-17.E455 01-11.B110	HRA Acct Funding			102152
ACI PAYMENTS INC.	0000300		1000019216		OLR Fees	32.20	32.20	102118
FRANSAMERICA RETIREMENT	T000415		PR 03/21/20	01-00.2026	-	264.11		
			PR 03/21/20	01-00.2027	-	40.00	466.20	100100
	m000415		PR 03/21/20	01-00.2028	Def Comp Loan Repay IPPFA	162.27	466.38	102128
TRANSAMERICA RETIREMENT	T000415	03/17/20		01-00.2026	Def Comp IPPFA	1204.97	1000 00	100100
		03/17/20		01-00.2028	Def Comp Loan Repay IPPFA	77.06	1282.03	102133
TRANSAMERICA RETIREMENT	T000415	04/03/20		01-00.2026	Def Comp IPPFA	1204.65	1001 51	100140
		04/03/20		01-00.2028	Def Comp Loan Repay IPPFA	77.06	1281.71	102142
S DEPARTMENT OF	U000050	03/27/20		01-00.2012	_	254.66	254.66	062134
ANTAGEPOINT TRANSFER AGENTS	V000120	03/17/20	SPR 03/17/20	01-00.2020	Def Comp ICMARC	300.00	300.00	102134
ANTAGEPOINT TRANSFER AGENTS	V000120		SPR 03/31/20	01-00.2020	Def Comp ICMARC	300.00	300.00	102143
Soom Inc.	Z000200		P-14540415		Video Meeting Program	33.55	33.55	102135
Zoom Inc.	Z000200	03/27/20	INV13030329	01-11.B115	Video Meeting Program	149.90	149.90	102136
						=======	=======	
					Total Payments:	250899.70	250899.70	
					ACH Payments Total:	250345.04	.00	
				Ch	neck Payments Total:	554.66	250899.70	



02 IMPROVEMENT FUND STANDARD CHECK REGISTER FOR 04/21/20

====== VENDOR =====		===== IN	NOICE =====					
NAME	NUMBER	DATE	NUMBER	G/L NUMBER	EXPENSE DESCRIPTION	EXPENSE	CHECK AMT	CHECK NO
BAXTER & WOODMAN, INC.	B000120	03/20/20	0212245	02-74.0501	Unsewered Area Plan Updte	2610.00	2610.00	102200
IL ENV PROTECTION AGENCY	1000260	03/16/20	L17-3088-2	02-30.0515	Loan Repayment	46595.52	46595.52	102201
						=======	========	
					Total Payments:	49205.52	49205.52	
					ACU December Make 1	49205.52	0.0	
					ACH Payments Total:	49205.52	.00	
				Ch	neck Payments Total:	.00	49205.52	



Downers Grove 03 CONSTRUCTION FUND STANDARD CHECK REGISTER FOR 04/21/20

NAME	NUMBER	DATE	NUMBER	G/L NUMBER	EXPENSE DESCRIPTION	EXPENSE	CHECK AMT	CHECK NO
IL ENV PROTECTION AGENCY	1000260	03/16/20	L17-3088-3	03-30.0515	Loan Payment	14403.64	14403.64	102202
						=======		
					Total Payments:	14403.64	14403.64	
					ACH Payments Total:	14403.64	.00	
				Ch	eck Payments Total:	.00	14403.64	
DATE								
REVIEWEI)							
TRUSTEE	APPROVAL							
				PRESIDENT				
				CLERK				



ACCOUNTS PAYABLE GENERAL LEDGER RECAP FOR 04/21/20

G/L NUMBER	COST ACCTG DESCRIPTION	DEBIT	CREDIT
01-00.1000	CASH		590719.38-
01-00.1001	CASH - PAYROLL ACCOUNT	101858.09	
01-00.2000	FEDERAL TAX WITHHELD	17936.94	
01-00.2001	STATE TAX WITHHELD	5442.07	
01-00.2002	SOCIAL SECURITY WITHHELD	12382.49	
01-00.2003	IMRF WITHHELD	10807.59	
01-00.2005	CLEARING	239.43	
01-00.2007	REBATES PAYABLE	1635.70	
01-00.2012	WAGE DEDUCTION ORDER	254.66	
01-00.2013	CREDIT UNION WITHHELD	3814.31	
01-00.2014	VOLUNTARY ADDITIONAL PENSION CONTRIBUTION	9056.25	
01-00.2020	DEFERRED COMPENSATION WITHHELD - ICMARC	600.00	
01-00.2021	FLEXIBLE ACCOUNT WITHHELD - MEDICAL	1878.80	
01-00.2026	DEFERRED COMPENSATION WITHHELD - IPPFA	2673.73	
01-00.2027	DEFERRED COMPENSATION WITHHELD - IPPFA ROTH	40.00	
01-00.2028	DC PLAN LOAN REPAYMENT WITHHELD	316.39	
01-05.3001	USER RECEIPTS	4466.56	
01-11.B100	ELECTRICITY	124.47	
01-11.B101	NATURAL GAS	144.47	
01-11.B110	BANK CHARGES	96.80	
01-11.B112	COMMUNICATION	1540.07	
01-11.B115	EQUIPMENT/EQUIPMENT REPAIR	13093.34	
01-11.B116	SUPPLIES	379.79	
01-11.B117	EMPLOYEE/DUTY COSTS	548.49	
01-11.B118	BUILDING AND GROUNDS	350.00	
01-11.B119	POSTAGE	7.65	
01-11.B121	USER BILLING MATERIALS	4395.64	
01-11.B124	CONTRACT SERVICES	3514.05	
01-11.B137	MEMBERSHIPS/SUBSCRIPTIONS	425.00	
01-11.C222	GAS/FUEL	150.64	
01-12.B100	ELECTRICITY	3917.71	
01-12.B101	NATURAL GAS	794.93	
01-12.B102	WATER, GARBAGE AND OTHER UTILITIES	1218.97	
01-12.B112	COMMUNICATION	1438.15	
01-12.B113	EMERGENCY/SAFETY EQUIPMENT	1323.77	
01-12.B116	SUPPLIES	2006.48	
01-12.B117	EMPLOYEE/DUTY COSTS	1438.41	
01-12.B401	CHEMICALS - DISINFECTION	7853.39	
01-12.B402	CHEMICALS - SLUDGE DEWATERING	4285.08	
01-12.B404	CHEMICALS - OTHER	833.00	
01-12.B501	EQPT/EQPT REPAIR - BIOSOLIDS AGING & DISPOSAL	1485.00	
01-12.B502	EQPT/EQPT REPAIR - DISINFECTION	433.82	
01-12.B503	EQPT/EQPT REPAIR - EXCESS FLOW	29.37	
01-12.B506	EQPT/EQPT REPAIR - PRIMARY TREATMENT	2176.87	
01-12.B507	EQPT/EQPT REPAIR - SECONDARY TREATMENT	119.92	
01-12.B508	EQPT/EQPT REPAIR - SLUDGE CONCENTRATION	57006.89	



ACCOUNTS PAYABLE GENERAL LEDGER RECAP FOR 04/21/20

G/L NUMBER	COST ACCTG DESCRIPTION	DEBIT	CREDIT
01-12.B509	EQPT/EQPT REPAIR - SLUDGE DEWATERING	1557.61	
01-12.B511	EQPT/EQPT REPAIR - TERTIARY TREATMENT	89.84	
01-12.B512	EQPT/EQPT REPAIR - WWTC GENERAL	13614.86	
01-12.B513	EQPT/EQPT REPAIR - WWTC UTILITIES	13822.99	
01-12.B804	BLDG AND GROUNDS - GRIT REMOVAL	2373.84	
01-12.B805	BLDG AND GROUNDS - INFLUENT PUMPING	9520.05	
01-12.B811	BLDG AND GROUNDS - TERTIARY TREATMENT	139.94	
01-12.B812	BLDG AND GROUNDS - WWTC GENERAL	504.26	
01-12.C222	GAS/FUEL	1831.42	
01-12.C225	OPERATION/REPAIR	319.43	
01-13.B114	CHEMICALS	424.70	
01-13.B116	SUPPLIES	910.85	
01-13.B117	EMPLOYEE/DUTY COSTS	258.24	
01-13.B123	OUTSIDE LAB SERVICES	4086.89	
01-13.C222	GAS/FUEL	56.23	
01-14.B112	COMMUNICATION	568.28	
01-14.B115	EQUIPMENT/EQUIPMENT REPAIR	6638.91	
01-14.B116	SUPPLIES	174.85	
01-14.B117	EMPLOYEE/DUTY COSTS	914.77	
01-14.B124	CONTRACT SERVICES	429.30	
01-14.B127	JULIE SYSTEM	4185.36	
01-14.B902	SEWER SYSTEM REPAIRS - REPLACEMENT	1196.08	
01-14.B910	SEWER SYSTEM REPAIRS - BSSRAP PROGRAM	53709.71	
01-14.B913	SEWER SYSTEM REPAIRS - BSSRAP-REPAIR/REPL/REH	736.00	
01-14.B929	ARRA LOAN PRINCIPAL REPAYMENT	90795.59	
01-14.C222	GAS/FUEL	1846.49	
01-14.C225	OPERATION/REPAIR	59.00	
01-15.B100	ELECTRICITY	7273.94	
01-15.B112	COMMUNICATION	359.77	
01-15.B524	EQPT/EQPT REPAIR - HOBSON	965.91	
01-15.B525	EQPT/EQPT REPAIR - LIBERTY PARK	1212.06	
01-15.B529	EQPT/EQPT REPAIR - LIFT STATIONS GENERAL	2329.18	
01-15.B824	BLDG AND GROUNDS - HOBSON	1468.00	
01-17.E452	LIABILITY/PROPERTY	10.00	
01-17.E455	EMPLOYEE GROUP HEALTH	44031.53	
01-17.E460	IMRF	25385.77	
01-17.E461	SOCIAL SECURITY	12382.55	
02-00.1000	CASH		49205.52-
02-30.0515	PAYMENT ON LOAN PRINCIPAL	46595.52	
02-74.0501	REPORT ENGINEERING/ARCHITECTURAL	2610.00	
03-00.1000	CASH		14403.64-
03-30.0515	PAYMENT ON LOAN PRINCIPAL	14403.64	
			======================================

Vendor	Invoice Date	Amount	Coding	Coding Description	Purchase Location	Emp.	Procurement	Project Name (If applicable)	Item Description
Grainger	03/11/20	\$29.37	01-12.B503	EQPT/EQPT REPAIR - EXCESS FLOW	Delivered	NW		Excess Flow Tanks 2,3&4 Cross Collector Drive PM	1/4" Filler Vent Fittings (3)
Grainger	03/12/20	\$164.40	01-12.B113	WWTC EMERGENCY/SAFETY EQUIPMENT	Delivered	MM		Disposable gloves	Disposable gloves
Grainger	03/12/20	\$141.33	01-12.B116	WWTC SUPPLIES	Delivered	MM			Oil mats and AA batteries
Grainger	03/12/20	\$57.90	01-12.B511	EQPT/EQPT REPAIR - TERTIARY TREATMENT	Delivered	СР		Micro Strainer Demo	Cut Off Wheels/Disks for Grinders
Grainger	03/13/20	\$38.44	01-12.B113	WWTC EMERGENCY/SAFETY EQUIPMENT	Delivered	MM		Disposable gloves	Disposable gloves for ST
Grainger	03/13/20	\$31.03	01-12.B512	EQPT/EQPT REPAIR - WWTC GENERAL	Delivered	AC		Replacement Tool / Broken	Electrical Knockout Tool Draw Stud
Grainger	03/18/20	\$12.92	01-12.B116	WWTC SUPPLIES	Delivered	JPB		Supplies	AA & Coin Batteries
Grainger	03/18/20	\$57.68	01-12.B513	EQPT/EQPT REPAIR - WWTC UTILITIES	Delivered	MR		Plant Effluent Pumps Lead/Lag Controls	(2) Pressure Control Switches
Grainger	03/19/20	\$235.85	01-12.B513	EQPT/EQPT REPAIR - WWTC UTILITIES	Delivered	MR		Plant Effluent Pumps Lead/Lag Controls	Selector Switches & Contact Blocks
Grainger	03/20/20	\$139.74	01-12.B512	EQPT/EQPT REPAIR - WWTC GENERAL	Delivered	JPB		Maintenance Repair Supplies	Hardware & Plumbing Supplies
Grainger	04/01/20	\$8.56	01-12.B512	EQPT/EQPT REPAIR - WWTC GENERAL	Delivered	DJ		Excess Flow Tanks Scum Drain Line Repair	PVC Glue
Grainger	04/02/20	\$43.36	01-12.B116	WWTC SUPPLIES	Delivered	СР		Cleaning Supplies	Mop Handle & String Head
Grainger	04/08/20	\$63.97	01-12.B812	BLDG & GROUNDS - WWTC GENERAL	Delivered	СР		Main Gate	Amber Warning Strobe Light
Grainger	04/08/20	\$17.15	01-12.B116	WWTC SUPPLIES	Delivered	СР		Cleaning Supplies	Handheld Sprayer
Grainger	04/08/20	\$37.45	01-11.B116	ADMIN SUPPLIES	Delivered	CS		Supplies	Mouse Pad w/ wrist support, keyboard wrist support
Home Depot	03/17/20	\$42.25	01-12.B116	WWTC SUPPLIES	In-Store	СР		Supplies	Pre-Mix 2 Cycle Fuel & Machine Screws
Home Depot	03/16/20	\$74.94	01-12.B116	WWTC SUPPLIES	In-Store	СР		Supplies	75' Hose & HD Extension Cord
lome Depot	03/25/20	\$28.68	01-14.B116	SEWER SYSTEM SUPPLIES	In-Store	AH		JULIE	Marking Paint
Home Depot	03/12/20	\$24.18	01-12.C225	OPERATION/REPAIR	In-Store	FF		Items for 304	
lome Depot	03/19/20	\$31.94	01-12.B511	EQPT/EQPT REPAIR - TERTIARY TREATMENT	In-Store	СР		Micro Strainer Demo	Swivel Socket Extensions

	4/17/2020 4/21/2020 Reimburse	Petty Cash Checking Reimbursement			D-440
Date	Purchased From	Description	Code	Amount	Ck No.
03/19/20	Costco	MSB Supplies	12.B116	71.92	3646
03/20/20	Dupage County Clerk	AK Notary Certificate	17.E452	10.00	3647
		Total Receipts/Rein	nbursement	81.92	
Expense b	y code				
12.B116	71.92				
17.E452	10.00				
	81.92				

Date: 4/17/2020 Petty Cash Reimbursement
Due Date: 4/21/2020

Invoice #: Cash Box

Date **Purchased From** Description **Reimbursed To** Code Amount 3/10/2020 Adam Cioni 30.00 **CDL** Reimburse 12.B117 3/12/2020 Reese Berry Ice For Lab 13.B116 6.39 3/13/2020 Cleaning/Disinfecting Supplies Jessie Gwozdz 11.B116 25.32 3/16/2020 13.B116 Reese Berry Ice For Lab 4.46 3/18/2020 USPS Postage Due 11.B119 4.99 3/24/2020 USPS Postage Due 11.B119 1.22 4/2/2020 USPS Postage Due 11.B119 1.44 4/6/2020 Adrienne Kasper Port for Chromebook to connect keyboard/mouse 26.99 11.B116 4/17/2020 Cash Box Overage - Close out fiscal year 11.B116 -3.09 **Total Receipts** 97.72

Expense by code

11.B116	49.22
11.B119	7.65
12.B117	30.00
13.B116	10.85
	97.72

P - 350

DOWNERS GROVE SANITARY DISTRICT

<u>M E M O</u>

TO: Amy R. Underwood General Manager

FROM: W. Clay Campbell

Administrative Supervisor

DATE: April 17, 2020

RE: Employee Group Insurance Renewals

The purpose of this Memo is to review the District's employee group insurance benefits plan and provide a recommendation for the June 1, 2020 renewal. Similar to last year, the District's medical insurance carrier, BlueCross BlueShield of Illinois (BCBSIL) calculated and offered to the District a composite rate for each tier of coverage for each plan (a set rate for each of the following tiers: Employee Only, Employee Plus Spouse, Employee Plus Child(ren) or Family coverage).

Five years ago we began collecting contributions from employees to help control the cost of coverage paid by the District, and to continue aligning ourselves with industry norms. The District began requiring premium contributions in June 2014 for those employees and eligible dependents that elected to take the PPO plan offered through Humana and in June 2015 we began requiring premium contributions for those employees and eligible dependents that elected to take either the PPO plan or a richer HMO plan offered through BCBSIL. This past year we offered three different plans (two HMO-styled plans and one PPO-styled plan). Our employee group did not participate at all in the less rich HMO styled plan and instead enrolled in one of the two richer plans (60% HMO and 40% PPO). During enrollment, we saw some employees decide to switch from the PPO plan to the HMO plan instead of staying with their PPO selection from the prior year.

To assist in analyzing the renewal and to provide a historical perspective, we prepared the attached History of Premiums and Benefits, along with a recommended benefit offering to employees for coverage for the next year (Options 1, 2, 3 and 4 as a package). The current employee census is applied to all plans on the sheet (including historical plans). The actual historical amounts paid varied with changes in our employee demographics. We again utilized the services of a consultant, GCG Financial, for this renewal, who has consulted on previous annual renewals since 2003. Amy Abell of GCG Financial will be attending the April 21 board meeting via Zoom to address any questions that may come up.

History

A chronological summary of recent renewals is as follows:

- 2017 The District maintained its medical coverage with BCBSIL and offered a total of four different plans for employees to choose from (a single provider (Advocate) HMO option at no cost to the employee, a richer HMO requiring employee premium contribution, a PPO option with a narrower provider network offering requiring employee premium contribution, and a rich hybrid PPO option requiring employee premium contribution), renewed the dental coverage with Humana CompBenefits and continued the vision coverage with EyeMed Vision Care for an overall percent change in health insurance (medical, dental and vision) premiums from the prior year at -3.59% after employee premium contributions were applied.
- The District maintained its medical coverage with BCBSIL and offered a total of four different plans for employees to choose from (a single provider (Advocate) HMO option at no cost to the employee, a richer HMO requiring employee premium contribution, a PPO option with a narrower provider network offering requiring employee premium contribution, and a rich hybrid PPO option requiring employee premium contribution), switched the dental coverage to Principal for a two-year contract and continued the vision coverage with EyeMed Vision Care for an overall percent change in health insurance (medical, dental and vision) premiums from the prior year at approximately 8.88% after employee premium contributions were applied and enrollment demographics shifted. In 2018, the District also began to offer a Health Reimbursement Account for employees and their spouses that come off the District's medical group coverage (\$100 per month for each spouse or employee that does not elect coverage through the District). We currently have 1 employee and 4 spouses that are eligible to be on the District's plan, but have elected to obtain coverage through the spouse's employer resulting in enjoyment of this benefit.
- 2019 The District maintained its medical coverage with BCBSIL and offered a total of three different plans for employees to choose from (a single provider (Advocate) HMO option identical in benefit structure to the richer HMO option requiring employee premium contribution, a rich full HMO requiring employee premium contribution, and a rich hybrid PPO option requiring employee premium contribution), continued the dental coverage with Principal in its second year of a two-year contract and continued the vision coverage with EyeMed Vision Care for an overall percent change in health insurance (medical, dental and vision) premiums from the prior year at approximately -2.00% after employee premium contributions were applied and enrollment demographics shifted. In 2019, the District continued to offer a Health Reimbursement Account for employees and their spouses that come off the District's medical group coverage (\$100 per month for each spouse or employee that does not elect coverage through the District). We currently have 2 employees and 4 spouses that are eligible to be on the District's plan, but have elected to obtain coverage through a spouse's or parent's employer resulting in enjoyment of this benefit.

Dental and Vision Coverage

As the District is ending the second year of a two-year contract with Principal for dental coverage, the District solicited a renewal quote from Principal along with competitive shopping with alternate carriers. Initially, Principal offered the District a renewal increase of 4.31% coming off of a two year contract. The District also received a quote from a newer carrier, Unum, which would have offered a lower renewal in comparison to the Principal's initial renewal quote. Upon a review of Unum, their dental provider network seemed fairly comparable to the Principal provider network. The District requested for Principal to consider quoting a two year contract price again, but Principal declined. On a separate note, Principal announced that it would be providing a one year rate pass for any insureds with policies that start after April 1. At this time, the now nominal savings offered by switching to Unum for dental coverage as compared to staying with Principal with a rate pass does not justify some provider disruption for our group.

As the District is ending the fourth year of a four-year contract with EyeMed Vision Care for vision coverage, the District solicited a renewal quote from EyeMed Vision Care along with competitive shopping with alternate carriers. The District received a four-year contract price from Unum that would have resulted in some slight savings over the expiring premium, but the provider network is not very mature and the frames benefit would only provide eligibility once every 24 months instead of the current benefit offered of once every 12 months through EyeMed. The renewal quote received from EyeMed Vision Care was a reasonable increase of 4.9% for another four-year contract.

Medical renewal with Alternate Carriers

In 2018, Humana and UnitedHealthCare (UHC) quoted the District's coverage with projected increases of 29.5% and 35.8%, respectively, over expiring rates at the time and the District's broker recommended that we should not seek quotes from alternate carriers for the 2019 plan year and to revisit them in 2020. As part of this year's renewal, the District did seek quotes from both Humana and UHC and received quotes from them with projected increases of 34% and 45%, respectively, over this year's expiring rates.

2020 Renewal Options

We have developed four plan options that are under the amount budgeted for group health insurance for fiscal year 2020-21. Our broker has informed us that we can offer all four medical options to our group with no minimum participation required for any one particular plan. With this year's renewal, the premiums offered to the District from BCBSIL using the composite rate method will result in a very moderate increase in the District's costs as compared to the current year. As a result, staff is recommending keeping the two plans that have high enrollment currently with our group, continuing to offer the same single provider HMO (Advocate) plan as last year in case it appeals to employees more this year and offering a new fourth plan option that offers a rich PPO benefits structure while requiring a more significant premium contribution from employees if they wish to participate to absorb the cost of the richer PPO plan. In addition, staff is recommending we maintain employee premium contributions at their current levels for the three existing plans and set a new appropriate premium contribution structure for the fourth plan option

that will provide our group with an additional PPO option with a richer benefit structure than the current PPO plan. The proposed employee premium contribution structure for the fourth plan is configured in such a way that will offer a richer alternative to the group, but the additional costs will be borne more by the employee. It should be noted that this fourth option may be more likely considered by current participants in the District's current Hybrid PPO Plan option (approximately 40% of our group) as that Plan is having many of its benefits slightly eroded by BCBSIL with the renewal this year.

- 1) Option 1 in the History table Renewal of existing coverage with a HMO-styled plan offering through BCBSIL that offers identical coverage and benefits as Option 2 below, but restricted to the Advocate-only provider network. Staff has seen increasing enrollment in the District's rich HMO plan (Option 2 below) in recent years and we determined there could be some potential cost savings for both the District and its employees if their providers were already in the Advocate network and this plan requires lower employee premium contribution levels. This plan <u>would</u> require employees to share the premiums with the District, at the same rates as last year and proportionately lower than Option 2.
- 2) Option 2 in the History table Renewal of existing coverage with continuing to offer the same HMO-styled plan through BCBSIL with a deductible of \$0, low co-pays and out-of-pocket maximums. This plan **would** require employees to share the premiums with the District, at the same rates as last year.
- 3) Option 3 in the History table Renewal of existing coverage continuing to offer the hybrid PPO-styled plan through BCBSIL. This PPO plan does offer its participants the flexibility to utilize two different PPO networks a thinner network with better co-pays, deductibles and out-of-pocket maximums and the full PPO network with high co-pays, deductibles and out-of-pocket maximums. This enables the employee to have some say in their costs in using this coverage while still providing the flexibility of the full BCBSIL PPO network. BCBSIL did reduce the benefits of this plan in most categories, but it continues to provide great value for having access to both the narrow and wide PPO networks offered by BCBSIL. This plan **would** require employees share the premiums with the District, at the same rates as last year. Even with the noticeable changes to the benefit levels under this plan, it continues to offer significantly better benefits and a broader network than many other available plan options.
- 4) Option 4 in the History table Offer a new PPO-styled plan that features a thinner PPO network (not the full PPO network offered above in Option 3), but offers some richer benefits above and beyond the Option 3 PPO to the group such as a \$500 individual deductible, \$1,500 family deductible, lower co-pays throughout, significantly lower annual out-of-pocket maximums and 90/10 coinsurance. The prescription drug co-pays are higher than Option 3 above, but otherwise is a very rich PPO plan. This plan **would** require employees to share the premiums with the District, at rates proportionately higher than Option 3.

Life Insurance Coverage

The District was offered a one-year rate increase pass from its existing life insurance carrier, Kansas City Life/NIS.

Employee Premium Contributions

Below is a table highlighting the recommended employee premium contribution requirements for those employees that select Options 1 (rich HMO but limited to Advocate Only Provider Network), 2 (rich HMO), 3 (rich hybrid PPO) or 4 (rich, but narrow PPO). Please note that these amounts are approximations at this time and staff may need to adjust these amounts prior to the first payroll for ease of administration and equity.

Also, please note that employees will be able to utilize the District's existing Flexible Savings Account to have their premium contributions deducted from their paychecks on a pre-tax basis.

OPTION 1 (Rich HMO – Advocate Only)	Annual Employee Contribution	Per Paycheck for Hrly	Per Paycheck for Sups	
Employee Only	\$286.65	\$11.03	\$11.94	
Employee Plus Spouse	\$1,146.60	\$44.10	\$47.78	
Employee Plus Children	\$1,003.28	\$38.59	\$41.80	
Family	\$1,576.58	\$60.64	\$65.69	
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OPTION 2 (Rich HMO)	Annual Emp. Contribution	Per Paycheck for Hrly	Per Paycheck for Sups	
Employee Only	\$382.20	\$14.70	\$15.93	
Employee Plus Spouse	\$1,528.80	\$58.80	\$63.70	
Employee Plus Children	\$1,337.70	\$51.45	\$55.74	
Family	\$2,102.10	\$80.85	\$87.59	
OPTION 3 (Hybrid				
PPO)	Annual Employee Contribution	Per Paycheck for Hrly	Per Paycheck for Sups	
Employee Only	\$423.80	\$16.30	\$17.66	
Employee Plus Spouse	\$1,695.20	\$65.20	\$70.63	
Employee Plus Children	\$1,483.30	\$57.05	\$61.80	
Family	\$2,330.90	\$89.65	\$97.12	
ODTION 4 (Disk but				
OPTION 4 (Rich, but Narrow PPO)	Annual Employee Contribution	Per Paycheck for Hrly	Per Paycheck for Sups	
Employee Only	\$611.57	\$23.52	\$25.48	
Employee Plus Spouse	\$2,446.28	\$94.09	\$101.93	
Employee Plus Children	\$2,140.50	\$82.33	\$89.19	
Family	\$3,363.64	\$129.37	\$140.15	

Recommendations for Renewal

For the June 1, 2020 renewal, I am recommending that the District's Board of Trustees make the following motion at their regular meeting held on April 21, "I move that the Downers Grove Sanitary District offers its full-time employees the four options listed in Administrative Supervisor Campbell's memo dated April 17, 2020 for medical insurance coverage with BlueCross BlueShield of Illinois, dental coverage with Principal, vision coverage with EyeMed Vision Care and life insurance coverage with Kansas City Life / NIS with an overall anticipated percent change of 3.21% in health insurance (medical, dental and vision) and life insurance premiums from the prior year." This year's calculation takes into consideration both the cost of the District providing the HRA benefit to its employees as well as anticipated employee premium contributions. Staff recommends we continue to offer the Health Reimbursement Account to employees as a cost savings measure.

In offering the new fourth option (rich, but narrow PPO), I have calculated that if all existing Hybrid PPO participants were to switch to the new plan, the District's increase in costs would not exceed 5.62%. It is unlikely that this would occur, but I wanted to set the employee premium contributions at such a level so that by offering this new plan the District would still not exceed its annual budgeted increase of 6%. Such a switch for HMO participants is unlikely as that plan (Option 2) already offers high value for lower employee premium contributions. Any participation in the Option 1 HMO plan would result in a decrease in the annual cost for the District.

As indicated in the attached History of Premiums and Benefits, by changing carriers, plan design changes or changes in employee premium contributions over the last six years, the annual average percentage premium increase for the employee group insurance benefit is now 1.321%.

If you concur with this recommendation, this item should be placed on the agenda for the April 21 regular Board meeting.

Attachment

cc: WDVB, AES, PWC, KJR, RTJ, MJS, MGP

DOWNERS GROVE SANITARY DISTRICT HISTORY OF PREMIUMS AND BENEFITS USING CURRENT EMPLOYEE CENSUS		PROPOSED BEN	EFIT OFFERING			CURRENT YEAR	
APRIL 16, 2020	EMPLOYEE OPTION 4	(06/01/20-0	05/31/21) EMPLOYEE OPTION 2	EMPLOYEE OPTION 1	EMDLOVEE OPTION 2	(06/01/19-05/31/20) EMPLOYEE OPTION 2	EMPLOYEE OPTION 1
PREMIUMS	BLUE CROSS BLUE SHIELD OF ILLINOIS WITH EMPLOYEE		BLUE CROSS BLUE SHIELD OF ILLINOIS WITH EMPLOYEE	BLUE CROSS BLUE SHIELD OF ILLINOIS WITH EMPLOYEE	EMPLOYEE OPTION 3 BLUE CROSS BLUE SHIELD OF ILLINOIS WITH EMPLOYEE	BLUE CROSS BLUE SHIELD OF ILLINOIS WITH EMPLOYEE	BLUE CROSS BLUE SHIELD OF ILLINOIS WITH EMPLOYEE
MEDICAL ALL WAIVE PPO2 PPO1 HMO2 HMO1 MED-CLASS 1-EMPLOYEE ONLY 0 0 2 8 0 MED-CLASS 2-EEE&SPOUSE 1 0 1 7 0 MED-CLASS 3-EEE&CHILD(REN) 0 0 3 1 0 MED-CLASS 4-FAMILY 33 1 0 11 21 0	PREMIUM CONTRIBUTION	PREMIUM CONTRIBUTION Hybrid PPO PLAN 624.36 \$1,248.72 1,248.72 \$1,248.72 1,155.07 \$3,465.21 1,779.43 \$8,897.15 \$14,859.80	PREMIUM CONTRIBUTION RICH HMO PLAN 606.68 \$4,853.44 1,213.36 \$8,493.52 1,122.36 \$1,122.36 1,729.04 \$8,645.20 \$23,114.52	PREMIUM CONTRIBUTION RICH HMO PLAN - ADVOCATE ONLY 576.34 \$0.00 1,152.68 \$0.00 1,066.23 \$0.00 1,642.57 \$0.00	PREMIUM CONTRIBUTION Hybrid PPO PLAN 604.47 \$1,208.94 1,208.93 \$1,208.93 1,118.26 \$3,354.78 1,722.73 \$8,613.65 \$14,386.30	PREMIUM CONTRIBUTION RICH HMO PLAN 586.13 \$4,689.04 1,172.26 \$8,205.82 1,084.34 \$1,084.34 1,670.47 \$8,352.35 \$22,331.55	PREMIUM CONTRIBUTION RICH HMO PLAN - ADVOCATE ONLY 556.83 \$0.00 1,113.65 \$0.00 1,030.13 \$0.00 1,586.96 \$0.00 \$0.00
LIFE INSURANCE ADMIN FEE PER MONTH MONTHLY PREMIUM ANNUAL PREMIUMS FSA HRA	11.50 \$11.50 0.00 \$0.00 \$11.50 \$138.00 \$0.00	\$126.50 0.00 \$0.00 \$14,986.30 \$179,835.60 \$0.00	\$241.50 0.00 \$0.00 \$23,356.02 \$280,272.24 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	11.50 \$138.00 0.00 \$0.00 \$14,524.30 \$174,291.60 \$0.00	\$241.50 0.00 \$0.00 \$22,573.05 \$270,876.60 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00
RETIREE COSTS EMPLOYEE CONTRIBUTIONS NET ANNUAL PREMIUM FOR PLANS WITH CONTRIBUTIONS PERCENT CHANGE - MEDICAL AND LIFE INS. ONLY BEFORE CONTRIBUTIONS PROPOSED BILLED MEDICAL AND LIFE INS. PREMIUMS (PRORATED ANNUALLY) PROPOSED MEDICAL AND LIFE INS. PREMIUMS AFTER CONTRIBUTIONS (PRORATED ANNUALLY) PERCENT CHANGE - PROPOSED MEDICAL AND LIFE INS. PREMIUMS AFTER CONTRIBUTIONS	0.00 \$0.00 \$138.00 4.73% \$466,245.84 \$466,246.00 \$421,991.40 3.80%	(\$18,647.20) \$161,188.40	(\$25,607.40) \$254,664.84	\$0.00 \$0.00	0.00 (\$18,647.20) \$155,644.40 7.62% \$452,368.20 \$452,368.00 \$408,113.40	(\$25,607.40) \$250,894.20	\$0.00 \$0.00
DENTAL DENTAL-CLASS 1-EMPLOYEE ONLY DENTAL-CLASS 2-EEE&SPOUSE BEDENTAL-CLASS 3-EEE&CHILD(REN) DENTAL-CLASS 4-FAMILY MONTHLY PREMIUM ANNUAL PREMIUMS PERCENT CHANGE-DENTAL ONLY	PRINCIPAL 1 YR CONTRACT (06/01/20-05/31/21) 29.20 \$321.20 59.29 \$474.32 73.13 \$292.52 108.49 \$1,084.90 \$2,172.94 \$26,075.28 0.00%				PRINCIPAL 2 YR CONTRACT (06/01/18-05/31/20) 29.20 \$321.20 59.29 \$474.32 73.13 \$292.52 108.49 \$1,084.90 \$2,172.94 \$26,075.28 0.00%		
VISION-CLASS 1-EMPLOYEE ONLY VISION-CLASS 2-EEE&SPOUSE VISION-CLASS 3-EEE&CHILD(REN) VISION-CLASS 4-FAMILY MONTHLY PREMIUM ANNUAL PREMIUMS PERCENT CHANGE - VISION ONLY	EYEMED 4 YEAR RATE GUARANTEE (06/01/20-05/31/24) \$6.52 \$71.72 \$12.40 \$99.20 \$13.05 \$52.20 \$19.19 \$191.90 \$415.02 \$4,980.24 4.90%				EYEMED 4 YEAR RATE GUARANTEE (06/01/16-05/31/20) \$6.22 \$68.42 \$11.82 \$94.56 \$12.44 \$49.76 \$18.29 \$182.90 \$395.64 \$4,747.68 0.00%		
PERCENT CHANGE - ALL COVERAGES TOTAL MONTHLY PREMIUM	\$37,753.91				\$36,578.03		
TOTAL ANNUAL PREMIUMS PERCENT CHANGE - ALL COVERAGES VITALITY REDUCTIONS RESULTING PERCENT CHANGE AFTER VITALITY REDUCTIONS	\$453,046.92 3.21%				\$438,936.36 4.60%		
ANNUAL AVERAGE PERCENT CHANGE OVER SIX YEARS	1.321%						
ANNUAL PERCENT CHANGE AND ANNUAL PREMIUMS IF NO CARRIER OR BENEFIT CHANGES HAD BEEN MADE TO OFFSET INCREASE	22.56% \$537,971.96				31.56% \$552,082.52		
MEDICAL PLAN NAME ANNUAL DEDUCTIBLE-IN NETWORK - INDIVIDUAL ANNUAL DEDUCTIBLE-IN NETWORK - FAMILY MAXIMUM ANNUAL OUT OF POCKET-IN NETWORK - INDIVIDUAL ANNUAL OUT OF POCKET-IN NETWORK - FAMILY MAXIMUM ANNUAL DEDUCTIBLE-OUT OF NETWORK - INDIVIDUAL ANNUAL DEDUCTIBLE-OUT OF NETWORK - INDIVIDUAL ANNUAL DEDUCTIBLE-OUT OF NETWORK - FAMILY MAXIMUM ANNUAL OUT OF POCKET-OUT OF NETWORK - INDIVIDUAL ANNUAL OUT OF POCKET-OUT OF NETWORK - FAMILY MAXIMUM OFFICE VISIT CO-PAY (PCP / SPECIALIST) INPATIENT HOSPITAL PER OCCURRENCE DEDUCTIBLE/COPAY OUTPATIENT HOSPITAL PER OCCURRENCE DEDUCTIBLE - OUT OF NETWORK OUTPATIENT HOSPITAL PER OCCURRENCE DEDUCTIBLE - OUT OF NETWORK OUTPATIENT HOSPITAL PER OCCURRENCE DEDUCTIBLE - OUT OF NETWORK OUTPATIENT HOSPITAL PER OCCURRENCE DEDUCTIBLE - OUT OF NETWORK ER CO-PAY COINSURANCE PERCENTAGE DISCOUNTED PHARMACY CO-PAYS 2ND TIER PHARMACY CO-PAYS LT MAX-IN NETWORK LT MAX-OUT OF NETWORK LIFE INSURANCE (BY ASSORTED CARRIERS)	Blue Cross Blue Shield of Illinois P5E1BCE Blue Choice Preferred \$500 \$1,500 \$1,500 \$4,500 \$1,000 \$3,000 Unlimited Unlimited \$20 / \$40 \$200 then Ded/Coins \$150 then Ded/Coins \$300 then Ded/Coins \$300 then Ded/Coins \$250 then Ded/Coins \$400 then Ded/Coins \$400 then Ded/Coins \$400 then Ded/Coins \$50,000	Blue Cross Blue Shield of Illinois G506OPT Blue Options \$750 BC/\$1,750 PPO \$2,250 BC/\$5,250 PPO \$4,450 BC/\$6,250 PPO \$13,350 BC/\$16,300 PPO \$3,500 \$10,500 None None \$30/\$60 BC - \$60/\$100 PPO \$250 BC/\$500 PPO then Ded/Coins \$200 BC/\$400 PPO then Ded/Coins \$600 then Ded/Coins \$500 then Ded/Coins \$500 then Ded/Coins \$500 then Ded/Coins NONE NONE NONE \$50,000	Blue Cross Blue Shield of Illinois P506PSN HMO Blue Precision \$0 \$0 \$1,500 \$1,500 X 3 = \$4,500 N/A N/A N/A N/A N/A \$10 pcp/\$45 specialist \$150 Copay then 0% \$100 Copay then 0% N/A N/A N/A N/A S300 Ded then 0% 100/0 \$0/\$10/\$50/\$100/\$150/\$250 NONE NONE \$50,000	Blue Cross Blue Shield of Illinois P506BCH HMO ADVOCATE ONLY \$0 \$0 \$1,500 \$1,500 X 3 = \$4,500 N/A N/A N/A N/A \$10 pcp/\$45 specialist \$150 Copay then 0% \$100 Copay then 0% N/A N/A N/A \$300 Ded then 0% 100/0 \$0/\$10/\$50/\$100/\$150/\$250 NONE NONE \$50,000	Blue Cross Blue Shield of Illinois	Blue Cross Blue Shield of Illinois P506PSN HMO Blue Precision \$0 \$0 \$1,500 \$1,500 X 3 = \$4,500 N/A N/A N/A N/A N/A \$10 pcp/\$45 specialist \$150 Copay then 0% \$100 Copay then 0% N/A N/A N/A N/A S300 Ded then 0% 100/0 \$0/\$10/\$50/\$100/\$150/\$250 NONE NONE \$50,000	Blue Cross Blue Shield of Illinois P506BCH HMO ADVOCATE ONLY \$0 \$0 \$1,500 \$1,500 X 3 = \$4,500 N/A N/A N/A N/A \$10 pcp/\$45 specialist \$150 Copay then 0% \$100 Copay then 0% N/A N/A N/A N/A N/A N/A S300 Ded then 0% 100/0 \$0/\$10/\$50/\$100/\$150/\$250 NONE NONE \$50,000

DOWNERS GROVE SANITARY DISTRICT

MEMO

TO: Board of Trustees

FROM: W. Clay Campbell

Administrative Supervisor

DATE: April 16, 2020

RE: Investment in Certificate of Deposit – TriState Capital Bank

In accordance with the District Investment Policy, we renewed the attached twelve-month Certificate of Deposit (CD) with TriState Capital Bank on April 9, 2020. The CD is in the amount of \$249,990 at an interest rate of 1.10%. The District also has a money market account with TriState Capital Bank holding \$10. This still offers the District flexibility to move money from a CD into the money market account in the future upon maturity. The CD and money market account are cumulatively FDIC insured to \$250,000.

Staff requests for the Board to take action ratifying this investment at its next regular meeting of April 21, 2020 **using the following motion**: "I move that we ratify the actions of staff on behalf of the District to renew a certificate of deposit in the amount of \$249,900 with TriState Capital Bank on April 9, 2020 at an interest rate of 1.10% and a term of twelve months."

Attachment

cc: KJR, RTJ, MJS, ARU, MGP



Return Service Requested

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00008 0.3770 WCL0001 DOWNERS GROVE SANITARY DISTRICT 2710 CURTISS ST PO BOX 1412 DOWNERS GROVE, IL 60515-0703

Automatic Renewal Notice

Dear DOWNERS GROVE SANITARY DISTRICT,

Your Certificate of Deposit, described below, matured on 04-09-20 and was automatically renewed at the renewal interest rate and the renewal Annual Percentage Yield (APY) stated below. If you wish to redeem this certificate please forward your written request to TriState Capital Bank within the 10 day grace period after maturity.

----Detail Information-----

Certificate:

Renewal Interest Rate: 1.100%
Renewal APY: 1.11%
Issue Date: 11/09/16
New Maturity Date: 4/09/21
Redemption Value: 249,990.00

If you wish to redeem this Certificate of Deposit please forward your written request to TriState Capital Bank via fax or email. If you have any questions please contact:

Toll Free # 1-866-680-TSCB (8722), option 2

Fax # 412-304-0395

E-Mail: depositoperations@tscbank.com

DOWNERS GROVE SANITARY DISTRICT

M E M O

TO: Board of Trustees

FROM: Alyssa Caballero, Information Coordinator

DATE: April 17, 2020

RE: DGSD Annual Newsletter

Copies of the following items are attached for the Board's review at the April 21 meeting:

- 1) DGSD Annual newsletter
- 2) WWTC Open House Invitation insert
- 3) Biosolids Distribution Program brochure
- 4) EasyPay Enrollment Form insert

The newsletter this year has updated information and is in a full-color format like the last few years. We have included the EasyPay Enrollment Form again this year to promote customer participation as the program reduces customer call volume and office foot traffic regarding typical billing inquiries. We continue to experience an appreciable increase in enrollments when the EasyPay Enrollment Form is included with the Newsletter. As staff is evaluating alternative options for our third-party billing portal, staff decided not to include the Invoice Cloud insert this year.

We have an estimated cost of \$6,915.00 for this year's newsletter (for printing the newsletter and inserts, envelopes and stuffing of the newsletter and inserts). This is a slight decrease of 3.66% under last year's cost of \$7,178.50 due to removing an insert. We budgeted \$7,500 for this expense. Similar to previous years, Royal Graphics will only print the newsletter and inserts and InfoSend (the District's third-party bill printing and mailing service) will stuff and mail the newsletters and inserts for us in envelopes they provide.

We plan to mail the newsletter with each user's regular bill during the months of May, June, and July.

Attachments

cc: BOLI, ARU, WCC, MGP



NEWSLETTER

"Providing a Better **Environment for South** Central DuPage County"

2710 Curtiss Street P.O. Box 1412 Downers Grove, IL 60515 Phone: 630-969-0664 Fax: 630-969-0827 www.dgsd.org

Board of Trustees

Wallace D. Van Buren President Amy E. Sejnost Vice President Paul W. Coultrap Clerk

Staff

Amy R. Underwood General Manager

Follow us on social media









This spring the District earned an Earth Flag from SCARCE. Read more on page 4.

DISTRICT CONTINUES ESSENTIAL SERVICES DURING CORONAVIRUS OUTBREAK

During this COVID-19 outbreak, the District continues to perform its core essential services in order to protect public health and the environment. The District has implemented measures to address the health and safety of our staff and thus ensure continuity of service throughout this unprecedented time. The District's dedicated staff will continue to proudly serve the community as they have always done.

SEWER PROBLEMS? OUR ASSISTANCE PROGRAMS CAN HELP

Customer service is our first priority. We have several sewer assistance programs designed to help you with sanitary sewer backups or other problems with your sewer service. Normal business hours are weekdays 8 a.m. to 4:30 p.m. Technicians are available at all hours to respond to emergencies, such as backups or sanitary sewer manhole overflows.

Reporting of all sanitary sewer backups is essential to provide the information necessary to monitor sewer system conditions, identify problem areas and eligibility for assistance programs. District personnel will investigate backups to determine the cause and appropriate corrective action. Residents should note that charges by plumbers or sewer contractors for work performed prior to contacting the District are generally not eligible under our assistance programs. Our assistance programs available to residents include:

Building Sanitary Service Repair Assistance Program

If you are having any issues with your sanitary service or are having to maintain it by frequently rodding, you may be eligible for a repair under the Building Sanitary Service Repair Assistance Program. The Program covers the entire building sanitary service from the building to the public sewer. To qualify for an initial investigation, property owners are usually only required to submit a





Program Application and a sewer rodding or televising invoice that occurred within the previous 12 months. The District will determine if the cause of repeated maintenance activity is a problem eligible for participation and, if so, the appropriate corrective measures. Most often this includes the installation of an outside cleanout access to help more effectively maintain your service. This Program is not a substitute for and does not cover routine maintenance of the building sanitary service such as periodic rodding. This Program also does not transfer ownership of the building sanitary service to the District.

Reimbursement Program for Installation of Overhead Sewer or Backflow Prevention Devices

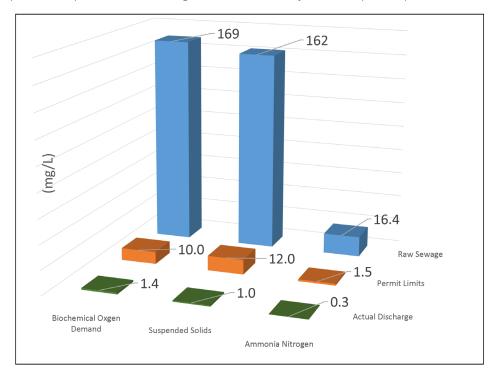
The District requires new construction to include plumbing features needed to protect property from backups that can occur at any time. Owners of older buildings should consider improvements needed to provide this level of protection. This cost sharing program is available for residents who have experienced sewer backup problems and desire to convert to an overhead sewer system or install backflow prevention devices, offering to pay half the project cost up to a limit of \$3,000.

Reimbursement Program for Sanitary Sewer Backups Caused by Blockages of the Public Sanitary Sewer

If District personnel determine that the sanitary sewer backup was caused by a blockage of the public sanitary sewer, the resident may be eligible for reimbursement of some costs associated with the backup. Please note that sanitary sewer backups occurring as a result of precipitation-related high flow conditions in the public sanitary sewer are not eligible for reimbursement under this Program. Blockages or problems of any nature in the building sanitary service are not eligible for reimbursement under this Program.

WASTEWATER TREAMENT

The District's Wastewater Treatment Center (WWTC) operates under a National Pollutant Discharge Elimination System (NPDES) permit issued by the Illinois Environmental Protection Agency (IEPA). The District's WWTC discharges treated water to the East Branch of the DuPage River that is significantly better than the permit limits. The chart below indicates the successful treatment provided by the District during 2019 for three major NPDES permit parameters.



Watershed Group

The District is a founding member and active participant in the DuPage River Salt Creek Workgroup (DRSCW), which is dedicated to managing the valuable stream resources of the East and West Branches of the DuPage River and Salt Creek. While other wastewater treatment plants in Illinois have recently received phosphorus limits in their NPDES permits, the District was able to negotiate with IEPA a schedule that provides additional time before implementation of phosphorus limits in exchange for active participation in the DRSCW to better understand the impacts of nutrients in our watershed and to help fund restoration projects in our receiving stream, with the goal of achieving the most cost-effective environmental improvements with limited available resources. For more information, visit www.drscw.org.

CARING FOR OUR INFRASTRUCTURE

The District's most valuable asset is the sewer collection system, including more than 250 miles of gravity sewers. Beyond these sewers, there are nearly 300 miles of privately owned building service pipes connecting buildings to the public mains owned by the District.

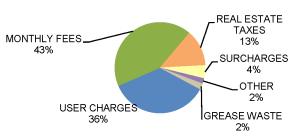
The system dates back as far as 1904 and requires a substantial commitment of resources to maintain in satisfactory working condition, meeting residents' expectations for service and regulatory requirements. The most significant challenge is the appearance of ground and storm water, known as infiltration and inflow (I/I), in sewers intended to carry only sanitary waste from plumbing fixtures. This extraneous water can cause backups and overflows by exceeding the capacity to carry sanitary waste, and is costly to transport and treat.

The District has a comprehensive I/I removal and sewer system rehabilitation program. Priority is given to areas identified through flow monitoring, field observations and backup or surcharge reports. State-of-the-art techniques are employed, ranging from open-cut replacement to various trenchless technologies such as cured-in-place lining and grouting. Ordinances regulating private property I/I sources are enforced and rehabilitation is conducted on both public and private sources.

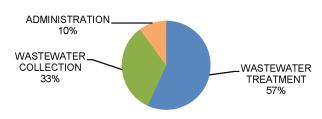
BUDGET AND FIVE-YEAR PLAN

The District has implemented a five-year plan, which projects revenues and expenses for all District activities, available for review on our website. For the current fiscal year, general corporate revenues are projected to be \$9.659 million and expenses are projected to be \$10.932 million. The expenses include for the \$3,606,190 sewer system, \$6,225,500 for wastewater treatment and \$1,100,260 for administration. The amount of expenses greater than revenues will result in a decrease in the District's operating fund balance. The charts below show the major types of revenues and expenses necessary for operations.

Fiscal Year 2020-21 REVENUES



Fiscal Year 2020-21 EXPENSES



BILL PAYMENT OPTIONS

EasyPay Program - A FREE automatic debit from your checking account. Enrollment may be done online at www.dgsd.org/pay-your-bill/easypay-form or by returning the enclosed yellow enrollment form to the District.

District Office - Bills can be paid by mail, in person or via dropboxes located throughout the District. We also have a kiosk in the office.

Billing Portal - An online billing portal where you can view your current bills and make online payments, view previous bills and sign up for reminders. Paperless billing is also available. Convenience fees apply to payments made through the billing portal.

Learn more about payment options at www.dgsd.org/youraccount.

CHANGE IN SEWER BILL RATES 2020

The District's user charge consists of two components: a volume charge based on water consumption and a monthly service fee. The volume charge increased to \$1.80 from \$1.70 per 1,000 gallons of water consumption and the monthly fee remains the same at \$17.00 per account. Surcharge and sampling and monitoring charges assessed to commercial and industrial users increased effective March 29, 2020. The user charge is evaluated annually and is set to collect the revenues needed to cover the cost of sewer system and treatment plant operation, maintenance and replacement, and District administration.

REAL ESTATE TAXES

This year the District levied \$1,282,600 for repairs to the sanitary sewer infrastructure, a 3.01% increase from last year. This levy results in a tax rate of \$0.0406 per \$100 of assessed value. A single-family residence with a market value of \$300,000 will pay \$40.60 in real estate taxes to the District in 2020.

2020 Sewer Construction Project

The District has two sewer projects set for this year's construction season including sanitary sewer rehabilitation on Stanley Avenue in Downers Grove and sewer replacement on Sherman Street in Downers Grove.

The proposed construction on Stanley Avenue consists of installation of approximately 1,550 lineal feet of cured-in-place sanitary sewer including trimming service laterals, reinstatement of existing services, and other miscellaneous items of work. This work will take place on Stanley Avenue between Dawn Place to the north and Grant Street to the south.

The proposed construction on Sherman Street consists of the open cut replacement of 347' of 8" sewer pipe. This work will take place on Sherman Street between Prospect Avenue to the west and Stanley Avenue to the east.





NET-ZERO EDUCATION CENTER FEATURES DISTRICT'S ENERGY EFFICIENCY WORK

The District recently completed a net-zero education center at the treatment plant funded by a grant from

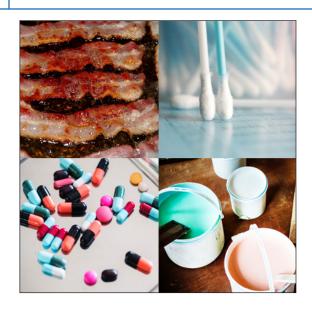
the Illinois Clean Energy Community Foundation. The center highlights the District's net-zero and energy-efficiency efforts for those visiting the plant.

DISTRICT EARNS EARTH FLAG FOR SUSTAINABILITY EFFORTS

This spring the District was presented with an Earth Flag in recognition of its sustainability and energy efficiency efforts from SCARCE, a local environmental non-profit organization. The flag highlights our work to operate our wastewater treatment center as a net-zero facility (creating as much energy as we use) through converting wastewater into usable energy. It also recognizes our involvement with the community including our recycling program for used cooking oil, participation in the DuPage River Sweep and hosting educational tours of our treatment center for local students and teachers.

TIPS TO REDUCE INTERNAL PLUMBING PROBLEMS

To help keep the sewer system flowing smoothly and keep the environment safe, residents are reminded that most everyday use items should not be disposed of into the sanitary sewer system. These items include: disposable wipes (sometimes labeled 'flushable' which are not flushable in our system), personal hygiene products, disposable diapers, cotton balls or swabs, tissues or paper towels. In addition, paint, engine oil, pesticides, pharmaceuticals and all household hazardous wastes should not be poured down the sink. Some of these hazardous materials can corrode the sewer, while others complicate the treatment process. For more tips on how to maintain your sewer line, visit www.dgsd.org/maintain-sewer-line. Check out our recycling programs and events below or visit www.dgsd.org/external-resources for more resources in the community.



RECYCLING PROGRAMS & EVENTS

Used Cooking Oil Program -

The District collects and recycles used cooking oil in partnership with SCARCE. Our customers and residents in the surrounding area are encouraged to recycle their used cooking oil instead of pouring it down the drain or disposing of it in the garbage. Used cooking oil can be dropped off any time at the Administration Center at 2710 Curtiss Street in Downers Grove, on the east side of the building at any time. For more information, visit www.dgsd.org/maintain-sewer-line/#cook.

Latex Paint Recycling Event -

The District and SCARCE will host a Latex Paint Recycling event on Saturday October, 24, 2020 from 9 a.m. to noon at the Administration Center at 2710 Curtiss Street in Downers Grove. Residents can drop off latex paint **only** (no oil based paint, stains or varnishes). The fee is \$4.00 per gallon or \$12 for a 5 gallon bucket. Look for more infomation on the District website closer to the date.

The Downers Grove Sanitary District is a separate unit of local government that provides sanitary sewerage service for you. We operate independently from your city or village. Our Board of Trustees meets monthly at the District office. These evening meetings are open to the public and include an opportunity for public comment. The District continues to evaluate and improve the transparency of its operations through increased reporting to the state and county, and provides extensive information on the District website.

We hope that you will attend the Wastewater Treatment Center Open House on Saturday, Sept. 19, 2020, from 9 a.m. to noon. If you have any questions regarding any of the information in this newsletter or would like to learn more about the District, please call the District office at 630-969-0664 or visit our website at **www.dgsd.org**.

BOARD OF TRUSTEES
DOWNERS GROVE SANITARY DISTRICT



CELEBRATE OUR 31 ST

OPEN HOUSE

SATURDAY, SEPT. 19, 2020 | 9 A.M. TO NOON

Downers Grove Sanitary District - Wastewater Treatment Center 5003 Walnut Ave., Downers Grove (3 blocks north of Maple Ave.)

See firsthand how your local wastewater treatment plant operates!

All are welcome. Admission is free!

For more information, call 630-969-0664 or visit www.dgsd.org.

Are You Interested in a Program that Provides these Benefits?

- Lower Fertilizer Costs for Your Landscaping
- Greener, More Prolific Lawns, Flowers, Shrubs and Trees
- Less Need for Watering in the Summer
- Greater Soil Volume on Your Property
- Helping the Environment
- Helping To Keep Your Utility Costs Down

If so, then you are interested in the Biosolids Distribution Program at the Downers Grove Sanitary District.



Providing a Better Environment for South Central DuPage County

For more information, visit our office: 2710 Curtiss Street Downers Grove, IL 60515

Call us at 630-969-0664 or visit our website at www.dgsd.org

Biosolids delivery recipients (3-yard minimum) who are also our sewer customers are eligible for a once-per-year \$5 credit on their sewer bill.

Our normal business hours are 8 a.m. to 4:30 p.m., Monday-Friday

Rev. 04/18

BIOSOLIDS DISTRIBUTION

Homeowners Information Brochure





HOW ARE THESE BENEFITS ACHIEVED?

The Downers Grove Sanitary District treats much of the municipal wastewater from the Villages of Downers Grove and Westmont, and a small surrounding area.

We make a soil supplement material as the by-product of the wastewater treatment process. Our unique stabilization process creates a material that has been used for decades by local residents, landscaping contractors, municipalities, and State government agencies.

The material looks like black dirt, but has a softer consistency, carries a high fertilizer value, and retains more water than typical black dirt. Use of this material as a top dressing helps create a lush green lawn, and gives flowers, shrubs, and trees an excellent source of essential nutrients while providing the water-retention properties of mulch.

By giving away this material for beneficial use, we are freeing valuable landfill space and controlling escalating transportation costs, helping to preserve our land and energy resources.

HOW DO I GET SOME?

You can come and pick it up, or we'll deliver it to you.

Either way, it's FREE.

Our pick-up station is located on Curtiss Street, near Katrine Avenue (about ½ mile west of Belmont Road). The Village of Downers Grove also has woodchips available for pickup only (no deliveries). Take as much as you can use!



We are happy to deliver loads of biosolids that are 3 cubic yards and larger. This is enough to cover a lawn approximately 100 feet by 100 feet.



Call us at 630-969-0664 to arrange for a delivery today. Our office hours are 8 a.m. to 4:30 p.m. weekdays.

FREQUENTLY ASKED QUESTIONS:

How much is 3 cubic yards? Three cubic yards will fill about twenty 30-gallon garbage cans.

How far do you deliver?

We deliver to the area bounded by I-55 on the south, Roosevelt Road on the north, Route 83 on the east, and Naper Boulevard on the west.

Can I use Biosolids to fill in or build up a low area on my property?

We recommend that biosolids be mixed half and half with a suitable fill material, such as black dirt, prior to use as a fill material.

Can I use Biosolids on my vegetable garden? At this point in time, the District is recommending that biosolids be used for landscaping purposes only. We do not recommend that it be used for growing edible crops.

Will my lawn be safe for children and pets?
Use the same precautions that you would follow with any other fertilizer product. For a general application to your lawn, a good rule of thumb would be to wait for at least one rainfall.

EasyPay Authorization & Information

I authorize the District to deduct my sanitary sewer user bill by electronically deducting each payment from my checking account. I agree that each payment shall be the same as if it were an instrument personally signed and authorized by me. I understand that each payment shall be electronically deducted from my checking account three business days or less before the due date of the bill. This authority is to remain in effect until revoked by me in writing.

I understand that my enrollment in this plan will be confirmed when I first receive a bill with the words "EasyPay DO NOT PAY." I agree to notify the District before moving to arrange for final billing and/or if I will be changing or closing the bank account being used.

I may stop payment of a charge or update my account information by notifying the District a minimum of <u>ten</u> business days <u>prior</u> to the due date on my bill. I understand that the District and the named financial institution reserve the right to terminate this electronic deduction or my participation at any time at their discretion. I agree to release the Downers Grove Sanitary District from any and all damages resulting from or in connection with my participation in the EasyPay Program.

Rev. 04/19

IF POSSIBLE, PLEASE ATTACH A VOIDED CHECK FOR ACCURACY

Name(s) on Sewer Bill		Sanitary District Account Number				
Bank Name		Name(s) on Checking Account				
Bank Routing Number		Checking Account Number				
Daytime Telephone Numbe	r	Email Address				
Signature		Date				
EXISTING EasyPay CUSTOM		e effective date of the above changes:// ellations – 10 day notice				
Return completed form to: Downers Grove Sanitary District 2710 Curtiss Street, P.O. Box 1412, Downers Grove, IL 60515						

Or online registration available at www.dgsd.org/pay-your-bill/easypay-form.

DOWNERS GROVE SANITARY DISTRICT MEMO

To: Board of Trustees

From: Ted Cherwak, Sewer Construction Supervisor and

Keith Shaffner, Sewer Construction Inspector

Date: April 14, 2020

Subject: Unsewered Area Plan Annual Update for 2020

The District's Unsewered Area Plan serves as the District's planning document for new public sewer main construction. The authority to establish such a planning document is prescribed by State Statute in the Sanitary District Act of 1917. Since 2006, when the initial plan was drafted, the District has done an annual update of the plan.

This year's annual update to the District's Unsewered Area Plan has been completed by Baxter and Woodman and District staff. The changes to the plan typically include new construction projects and changes in the construction cost index. See the attached letter dated April 13, 2020 from Shane M. Firsching at Baxter and Woodman for a more detailed review of this year's changes. This year's revision only covers the cost estimate as there were no sewer constructed that effected the plan. The revised plan is attached for your review. Upon Board approval the document will be placed on the District's website.

This annual update to the Unsewered Area Plan will be presented to the Board for approval at the April 21, 2020 Board Meeting.

As is our practice, we will review and update the plan again next spring.

CC: KJR, RTJ, MJS, ARU, WCC & MGP



April 13, 2020

Mr. Keith Shaffner Downers Grove Sanitary District 2710 Curtiss Street Downers Grove, Illinois 60515

Subject: Downers Grove Sanitary District - Unsewered Area Plan Update

Dear Mr. Shaffner:

The District typically completes an annual update to the Unsewered Area Plan (UAP) to reflect new sewer construction and changes in construction costs. The original plan was completed in December 2006 and last revised in March 2019. Since the last update, no new sewer construction has occurred, but the construction cost index has increased.

We have completed the following modifications:

- 1. Evaluated unit prices using changes in the construction cost index and recent bidding trends to estimate the projected costs in 2020. The construction cost index increased since the last UAP update in March 2019, and current bidding trends show support of this construction cost index increase. Therefore, the 2019 unit prices were increased by 1.50 percent to reflect 2020 construction costs.
- 2. Two recent special assessment evaluations, one for Puffer Road sub-basin and one for Grant/Lee sub-basin, were completed in the past year, but construction on these two areas has not begun. These special assessment evaluations were noted as such in the text of their corresponding sub-basin sections. In the body of the UAP, the approach and layout for the Grant/Lee sub-basin area was revised to match the approach and layout in the special assessment evaluation to represent the revised route, easements, and total number of unsewered parcels. The approach and layout for the Puffer Road sub-basin was unchanged in the body of the UAP.

We trust this information serves your needs at this time. Please call me if you have any questions.

Sincerely,

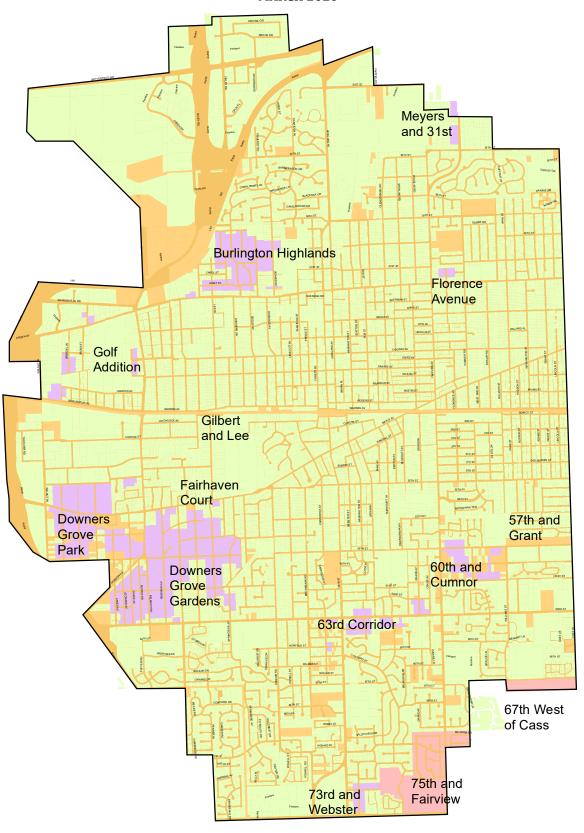
BAXTER & WOODMAN, INC. CONSULTING ENGINEERS

Shane M. Firsching, P.E.

C: Amy Underwood, P.E., Downers Grove Sanitary District Ted Cherwak, Downers Grove Sanitary District

Downers Grove Sanitary District Unsewered Area Plan

MARCH 2020



Downers Grove Sanitary District

Unsewered Area Plan March 2020

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1. Introduction

The ultimate service area of the Downers Grove Sanitary District (District) is defined by the Facility Planning Area (FPA) boundary. The District is responsible for planning sewer service for all property within its FPA. Currently, a majority of the area within the FPA is annexed to the District and receives sewer service. There are a few areas in the FPA served by septic systems that are not annexed into the District, and are therefore considered "unsewered." This report is intended to identify plans for the installation of the sewer system improvements needed to serve unsewered areas within the FPA, and to identify the process for obtaining service in unsewered areas.

The Sanitary District Act of 1917 (ILCS 2405/7.6) allows for the orderly planning for and establishment of general and specific locations for all conduits, pipes and pumping stations. Under this statute, the District is not obligated to accept or maintain facilities not built in accordance with this plan. This report is intended to serve as the plan described in this statute.

The Federal Water Pollution Control Act Amendments, Public Law 92-500, include provisions for the establishment of state and areawide water quality planning programs to coordinate pollution control decisions and to implement feasible methods to achieve clean water over the long term. Section 208(a) (2) of the Clean Water Act directs that: "The Governor of each State ... shall identify each area within the State which, as a result of urban-industrial concentrations or other factors, has substantial water quality control problems..." This language led to the establishment of Facility Planning Areas (FPAs) as a key element of this Areawide Water Quality Management Plan. A Facility Planning Area (FPA) is defined as "a centralized sewer service area to be considered for possible wastewater treatment facilities within a 20-year planning period." FPAs provide individual jurisdictions with a means of planning and cooperation to provide service to residents.

The State of Illinois has identified the District as the responsible local wastewater treatment authority for the Facility Planning Area, shown on Exhibit 1.

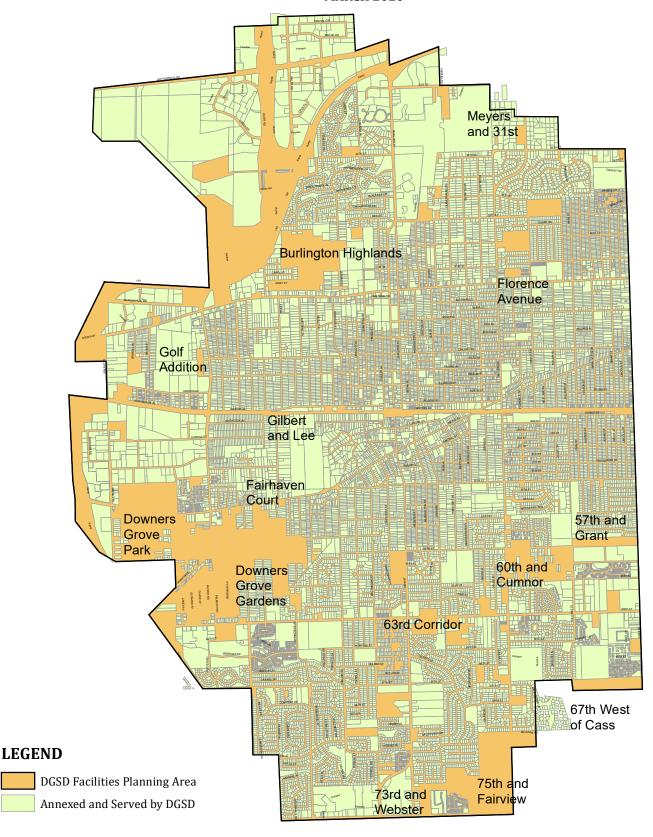
As part of a major metropolitan area, the District FPA is completely surrounded by other designated Facility Planning Areas. There is little opportunity for the FPA boundaries to be changed. However, there are occasions when sewer users along the FPA boundary are more easily served by the designated wastewater authority of an adjacent FPA. In such cases, the two authorities can typically reach an agreement to provide service without altering the FPA boundaries, or can agree to FPA boundary changes.

There are sewer users within the District FPA that are served by neighboring designated FPA authorities. These sewer users are located in the 75th and Fairview area and the area along 67th west of Cass, shown on Exhibit 2, which are served by DuPage County Public Works (Marianbrook FPA).

If FPA boundaries require adjustment for any reason, the State of Illinois has designated the Chicago Metropolitan Agency for Planning (CMAP) as the water-quality planning agency for the region. CMAP functions in an advisory role, reviewing applications and conducting administrative hearings, with the Illinois EPA retaining final approval over FPA boundary modifications.

Downers Grove Sanitary District Unsewered Area Plan

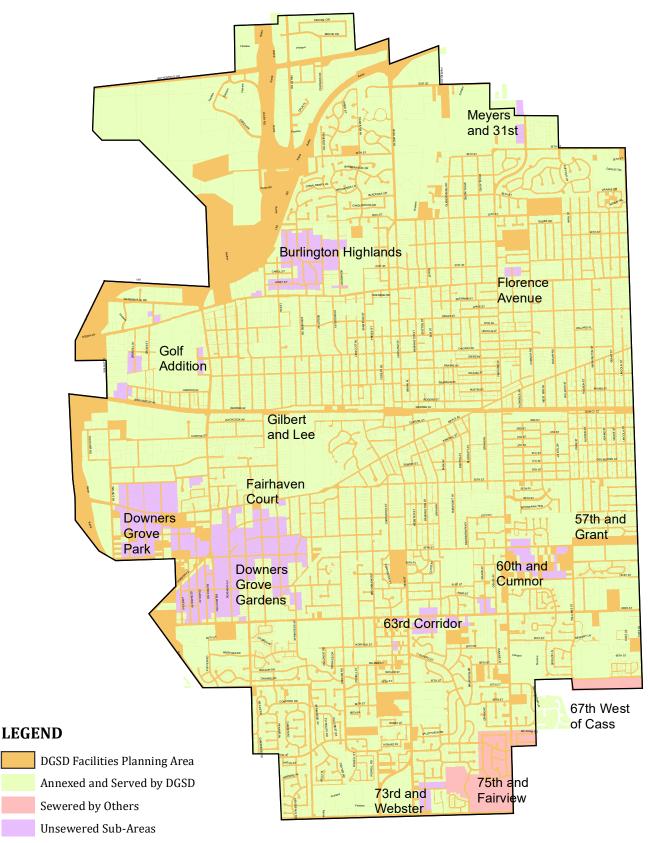
MARCH 2020



Facilities Planning Area Boundary Map Based on Chicago Metropolitan Agency for Planning FPA Boundary Map of December, 2005

Downers Grove Sanitary DistrictUnsewered Area Plan

MARCH 2020



Facilities Planning Area Boundary Map Based on Chicago Metropolitan Agency for Planning FPA Boundary Map of December, 2005

2. Existing Service Area

The existing service area of the District is smaller than the designated FPA. There are numerous properties within the FPA that do not receive sewer service, and are therefore not part of the existing service area.

The existing service area boundary is updated whenever a new property parcel is annexed into the District. Each annexation is filed with the County Clerk's office, at which time the service area boundary change becomes effective. Exhibit 1 shows the properties within the service area boundary, effective in the fourth quarter of 2005.

Property within the service area is subject to the property tax levy of the District. Property connected to the sewer also receives regular sewer use bills.

Property owners desiring sewer service are required to follow the rules defined by District ordinances and other applicable laws. Application for annexation is followed by construction of any necessary public sewer, and a building sewer connection to connect the improvements on the property to the public sewer. All construction is required to meet District standards, subject to review and inspection by District personnel.

In order to be annexed, a property owner must submit a completed Annexation Application Form. Under State law, property within the District service area must be contiguous.

Where property being annexed is not adjacent to an existing public sewer, a sewer extension must be constructed. Sewer extensions need to be constructed so that they are fully functional when newly built, and can accommodate anticipated future development of adjacent unsewered areas in the FPA.

Sewer extensions are required to meet District standards, subject to review and inspection by District personnel. Sewer extensions must be permitted for construction by the Illinois EPA.

In order to construct a sewer extension, an applicant must submit a completed Sanitary Sewer Service Request. The request must be approved by the Board of Local Improvements prior to proceeding to implementation.

The District will review engineering plans and specifications, prior to the permitting process by the Illinois EPA. Construction permit applications submitted to the Illinois EPA must be signed by the District as the authority receiving the wastewater. The District is thereby certifying that there is adequate downstream capacity to transport and treat all sanitary flows from the area being served by the sewer extension. The District will conduct inspections and require testing during and following construction in order to verify compliance with standards.

Fees are assessed for sewer permits, annexation applications, trunk sewer service charges, lateral sewer charges, recapture, plan reviews, construction inspection, and television inspection. These fees are updated periodically, and applied according to the requirements of District ordinances.

The District requires that sewer extensions be built according to this Unsewered Area Plan in order to allow for orderly and cost-effective construction, and so that capacity is available for anticipated future growth in remaining unsewered areas. This plan is updated from time to time, as projections for future development, zoning and growth may change over time.

3. Methods of Obtaining Service in Unsewered Areas

There are four available methods to finance the installation of sanitary sewers in an unsewered area - special assessment, construction by private party, cash plan, or special service area. Each method is discussed in detail below.

3.1 Special Assessment

The Statutes of the State of Illinois set forth a special assessment procedure whereby the District may construct sanitary sewers and assess the costs of the sewers against adjacent property to the extent the property is benefited. In order to utilize the special assessment procedure, the property to be benefited and assessed must be within District corporate limits. The procedure for annexing property to the District and the steps involved in a special assessment are discussed separately below.

3.1.1 Annexation

Property can be annexed into the District in one of two ways – by an election or by petition of a majority of land owners.

- 3.1.1.1 Upon the submittal to the District of a petition signed by ten percent or more of the legal voters residing within the area to be annexed, an election will be held at a regularly scheduled general election. The question to be submitted to the legal voters shall be whether the designated area should become a part of the District and assume a proportionate share of any bonded indebtedness of the district. If a majority of the votes cast at the election shall be in favor, the area shall be annexed.
- 3.1.1.2 Upon submittal of a petition to the District which has been signed by the owners of more than 50% of the land area of the designated area, the area shall be annexed. The District will provide the appropriate petition forms upon request. Annexation to the District does not involve annexation into a city or village.

3.1.2 Special Assessment Procedure

The District Board of Local Improvements originates the procedures for levying the special assessment, and property owners who wish a local improvement to be made on or adjacent to their property should petition this Board. For areas recently annexed by election or by majority petition, as discussed above, the Board of Local Improvements will generally initiate the special assessment procedure immediately following the annexation of the area to the District.

The following list is for general informational purposes only and merely highlights the various steps typically involved in a special assessment. This list should not be relied upon as conclusive since the steps actually followed in an individual special assessment will depend upon various circumstances, including the nature and extent of the improvement, as set forth in more detail in the state statutes and in the relevant case law.

3.1.2.1 Engineer's Report: At the request of the Board of Local Improvements, the plans for the local improvement project, including an estimate of costs thereof, are prepared by the engineer.

- 3.1.2.2 Estimate of Cost: This estimate lists the expenses involved in the local improvement and is signed by the President of the Board after determining that the estimate does not exceed the probable costs.
- 3.1.2.3 Originating Resolution: Board of Local Improvements outlines the improvement and orders a public hearing on the project.
- 3.1.2.4 Notice of Public Hearing: Persons who paid the last tax bill on the property to be assessed receive notice of the public hearing.
- 3.1.2.5 Public Hearing: A general description of the improvement is given to the public at the hearing and they are allowed to express their opinions and ask questions. The District attempts to provide a preliminary and unofficial spread of the assessment so that each property owner may then compute for himself an estimate of the amount to be levied against his property.
- 3.1.2.6 Second Resolution: Board of Local Improvements decides whether to continue, modify, or abandon the local improvement project.
- 3.1.2.7 Recommendation of Board of Local Improvements: If continued or modified, the improvement is recommended to the District Board of Trustees with a draft ordinance which shall be published at least 10 days prior to adoption.
- 3.1.2.8 Ordinance: The Board of Trustees decides whether to proceed with the special assessment by passing said ordinance.
- 3.1.2.9 Court Petition: District petitions the court for approval of the special assessment.
- 3.1.2.10 Appointment of Commissioners: President of Board of Local Improvements appoints commissioners to spread the assessment according to benefit, and to determine damages for any takings. This appointment is subject to approval by the court.
- 3.1.2.11 Assessment Roll: This roll, submitted by the Commissioners, lists the amounts proposed to be assessed against the individual parcels of property and just compensation for any takings (easements).
- 3.1.2.12 Summons: When takings are involved, a summons shall be issued and served upon all parties whose property is to be taken.
- 3.1.2.13 Notice of Court Hearing: Notice of a court hearing is published and mailed to the persons who paid the last tax bill on the property to be assessed.
- 3.1.2.14 Court Hearing: At a hearing before the court, any person owning or occupying property to be assessed or taken may file objections.
- 3.1.2.15 Order of Confirmation: After hearing any objections, the court rules on the assessment roll. Shortly thereafter, those property owners whose property is to be taken shall receive just compensation as determined by the Court.

- 3.1.2.16 Bills Issued: Property owners are sent bills based on the amount confirmed against their property in the earlier court hearing. The assessment will be billed in approximately equal installments over ten years. All installments will be due on January 2 of each year. A property owner who wishes to avoid being charged interest on his assessment can pay his entire assessment prior to the date when interest begins to accrue.
- 3.1.2.17 Invitation for Bids: Board of Local Improvements invites contractors to bid on the construction of the project.
- Opening of Bids: The sealed bids of the contractors are opened publicly. Property owners have the right to do the work under certain conditions.
- 3.1.2.19 Award of Contract: The Board of Local Improvements accepts the lowest responsible bid or rejects all bids. If the bid to be approved is 10% more than the engineer's estimate, further legal proceedings must be undertaken and a supplemental assessment made. Following the award of a contract, construction begins.

3.2 Construction by Private Party

A private party may construct a sewer to be dedicated to the District as a public sewer. The private party is responsible for engineering, permitting, and construction of the improvement. The statute (ILCS 2405/7.7) allows for (but does not require) the recapture of costs from other properties benefited by the privately funded improvement.

If property owners along the sewer did not participate in the cost of the improvement, the District may provide a recapture agreement to assess such owners their prorated share of the costs of the sewer upon application to connect. The private party must submit paid copies of all costs of the project in a timely manner, and indicate which undisputed individuals are to receive the recapture payments.

Property owners desiring to connect to the newly constructed sewer must apply for a connection permit and must comply with all District requirements, including annexation to the District and payment of all District fees and charges.

3.3 Cash Plan

The residents of a given street may choose between two methods of constructing a sanitary sewer under a cash plan. Under the first method, the residents form a non-profit organization to administer the construction project, dealing directly with an engineer, a contractor, the District and a bank. Under the second method, the residents contract with the District to administer the project on their behalf. An outline of the steps to be taken under each method is presented below:

3.3.1 Cash Plan – Non-Profit Organization

3.3.1.1 The residents of a given street desiring to construct a sanitary sewer should first form a non-profit organization (for example – "Smith Avenue Improvement Association"). It is recommended that an attorney be consulted in order to properly establish the organization.

- 3.3.1.2 Officers should be selected, or a governing committee should be selected, to represent the property owners in future dealings with the District, contractors, engineers, etc.
- 3.3.1.3 After the organization has been formed and there is sufficient interest in the project, the officers should retain a registered engineer who is experienced in the design and construction of sanitary sewers.
- 3.3.1.4 The committee should authorize the engineer to prepare a preliminary estimate of cost of the proposed project. This preliminary estimate of cost can be prepared for a nominal fee. It would require the engineer to make a reconnaissance of the area, determine construction conditions in the area and generally look over the area to arrive at the preliminary estimate of cost. The committee should be prepared to supply the engineer with all available information, i.e. limits of the proposed improvement, number of homes, legal descriptions for area involved, etc.
- 3.3.1.5 Upon receipt of the cost estimate, the committee should then call a meeting of all property owners on the street. The estimated cost and other information can then be explained to the property owners.
- 3.3.1.6 If a sufficient number of property owners are in favor of proceeding with the project, the officers should then establish an escrow fund at one of the local banks.
- 3.3.1.7 Following the establishment of an escrow fund, the property owners should be instructed to deposit their pro-rated share of the project into the fund. Ultimately 100% participation will be required by the property owners. If 100% participation is not obtained, the cost of the non-participants will have to be borne by the remaining owners.
- 3.3.1.8 After approximately 50% of the total cost of the project has been deposited in the escrow account, the organization should then authorize the engineers to proceed with the preparation of final plans and specifications.
- 3.3.1.9 Four (4) copies of the completed plans and specifications must be submitted to the District for review and approval. Following District approval, two (2) sets of plans and specifications will be submitted by the District to the Illinois Environmental Protection Agency for review and issuance of the required permit. It is recommended that the plans not be released for bidding until District approval has been received. Construction of the sewer may not begin until the Illinois Environmental Protection Agency permit is received.
- 3.3.1.10 After approximately 80% of the necessary funds are deposited in the escrow account and the organization is assured that the remaining 20% will be deposited prior to the completion of the project, the engineers should then be authorized to solicit bids from contractors.
- 3.3.1.11 It is suggested that bids be opened at a joint meeting of the bidders, the engineer and organization officers. A contract is then awarded by the organization to the selected contractor.
- 3.3.1.12 The organization will be responsible, through the engineer, to monitor the sewer construction.

- Payments to the contractor and the engineer shall be made from the escrow fund as authorized by the organization officers.
- 3.3.1.14 Following completion of the sewer, the District will prepare an agreement to be signed by the representatives of the organization. This agreement will assign the ownership of the sewer to the District and the District will agree to operate and maintain the sewer following acceptance.
- 3.3.1.15 If any of the property owners along the sewer did not participate in the cost of the improvement, the District will provide a recapture agreement to assess such owners their prorated share of the costs of the sewer upon application to connect. The organization officers must submit paid copies of all costs of the project and indicate which individuals are to receive recapture payments.
- 3.3.1.16 Property owners desiring to connect to the newly constructed sewer must apply for a connection permit and must comply with all District requirements, including annexation to the District and payment of all District fees and charges.

3.3.2 Contract with Sanitary District

Under the second cash plan method, the residents of the given street enter into an agreement with the District to construct the sewer. The District then administers the project and deals with the engineer and contractors. The following steps are required under this method:

- 3.3.2.1 The District provides an agreement for execution by each property owner who desires to participate in the sewer construction. This agreement will indicate the deposit required of each participating owner, authorize the District to prepare plans and specifications, advertise for bids, publicly open bids, award the contract to the lowest responsible bidder, proceed to construct the sewer, and establish a recapture fee to be assessed against any property along the route of the sewer which did not participate in the cost of the sewer.
- 3.3.2.2 Property owners desiring to connect to the newly constructed sewer must apply for a connection permit and must comply with all District requirements, including annexation to the District and payment of all District fees and charges.

3.4 Special Service Area

The Statutes of the State of Illinois set forth a special service area procedure whereby the District may construct sanitary sewers and assess the costs of the sewers against benefited property as a levy of an additional real estate or other tax for special services that are not available to other properties within the District. In order to utilize the special service area procedure, the property to be benefited and assessed must be within the corporate limits of the District. The procedure for annexing property to the District is discussed under Section 3.1.1.

The District has not utilized the special service area procedure to finance the installation of sanitary sewers and prefers the special assessment procedure as a more equitable method of financing such installations.

4. Unsewered Sub-Areas

The needs of different unsewered areas vary, depending on local conditions. The District has delineated a number of distinct sub-areas, and developed sewer plans according to the specific circumstances of each sub-area. Exhibit 2 shows these unsewered sub-areas. These sub-areas are listed as follows:

- 73rd and Webster
- Downers Grove Park
- Downers Grove Gardens
- Fairhaven Court
- Burlington Highlands
- Golf Addition
- Florence Avenue
- Meyers and 31st
- 57th and Grant

(Sanitary sewers are available as of March 2015.)

- 60th and Cumnor
- 63rd Street Corridor
- Gilbert and Lee

Planning elements that have been considered in each sub-area include existing development and associated population density, zoning and associated density for undeveloped property, local topography, and existing nearby sewers. A planned sewer system layout is developed to provide sewer service for the entire sub-area. Sewer system layout includes routing and depth information, as needed to verify capacity and to estimate costs. Manhole spacing has been established assuming the entire sub-area were sewered as a single project. Actual manhole spacing can be adjusted to accommodate specific projects within any sub-area. With this flexibility in mind, construction of sewer extensions in the unsewered area is expected to be consistent with the planned sewer system lay-out.

For each planned sewer system addition, estimates of probable construction costs have been made. Estimates are based on unit quantities developed by the District. Unit prices are applied to these unit quantities. Estimates are updated periodically to reflect changes in unit pricing over time. Unit pricing is derived using recent unit prices from similar construction projects. The intent of the District is to update the unit price costs each calendar year using unit prices from recent projects and future industry projections. This report uses projected unit prices for the year 2020.

Every unsewered parcel has an associated sewer construction project that is necessary as the minimal project needed to obtain service. The project includes all downstream construction required to connect the parcel to the existing sewer according to this plan.

Specific sub-areas are identified and discussed here in detail. Preliminary plans were previously prepared for many unsewered areas. Historically, this was done on an as-needed basis as interest in obtaining sewer service is shown in individual unsewered areas. These preliminary plans were updated and included in this report, as well as new preliminary plans for sub-areas that were not investigated previously. Thus, this report contains a comprehensive summary of all the preliminary plans to provide sewer to all unsewered areas within the District FPA.

4.1 73rd and Webster

The unsewered area at 73rd Street and Webster Street includes 25 lots that are already developed as single family residential, 9 facing 73rd Street along the north side, and 16 facing Webster directly south of 73rd Street. A map of the area is included in Exhibit 4.1.

The area can be served from four existing locations: a new manhole on the existing sewer on 75th Street at Webster Street, an existing manhole on the west side of Main Street at 73rd Street, an existing manhole located on Webster Street just south of Old Orchard Avenue, and/or an existing sewer at Baybury Road and 73rd.

Another component of this analysis was to evaluate the downstream capacity of the existing sewers. Our analysis determined that all of the existing sewers have adequate capacity to receive the additional flow from the 73rd and Webster sub-area.

Several options were considered when determining the cost-effective sewer layout to serve this area. Ground surface contours and major road crossings play a key role in development of the cost-effective sewer layout.

The low-cost layout generally follows the existing ground contours, while minimizing the number of road crossings. A deep cut is avoided in the hill along Webster by serving the homes along Webster with a southward-running sewer segment. The homes along 73rd are best served from the manhole to the north, to avoid a crossing at Main Street. The manhole at Baybury and 73rd is too shallow to serve the homes at the western edge of the service area.

A summary of the manhole and sewer layout are provided in Table 4.1-1.

Table 4.1-2 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$904,200, including contingency, engineering, easements, and legal/administrative costs. Some easement acquisition is required along 73rd street to avoid the nearby water main.

DOWNERS GROVE SANITARY DISTRICT **UNSEWERED AREA PLAN**

EXHIBIT 4.1

73rd AND WEBSTER **POSSIBLE SEWER ALIGNMENT**

MARCH 2020

LEGEND

PROPOSED MANHOLES

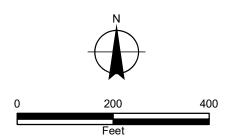
PROPOSED SEWERS

EXISTING MANHOLES

EXISTING SEWERS

PARCEL BOUNDARIES

73RD AND WEBSTER





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563dks - 3/24/2020

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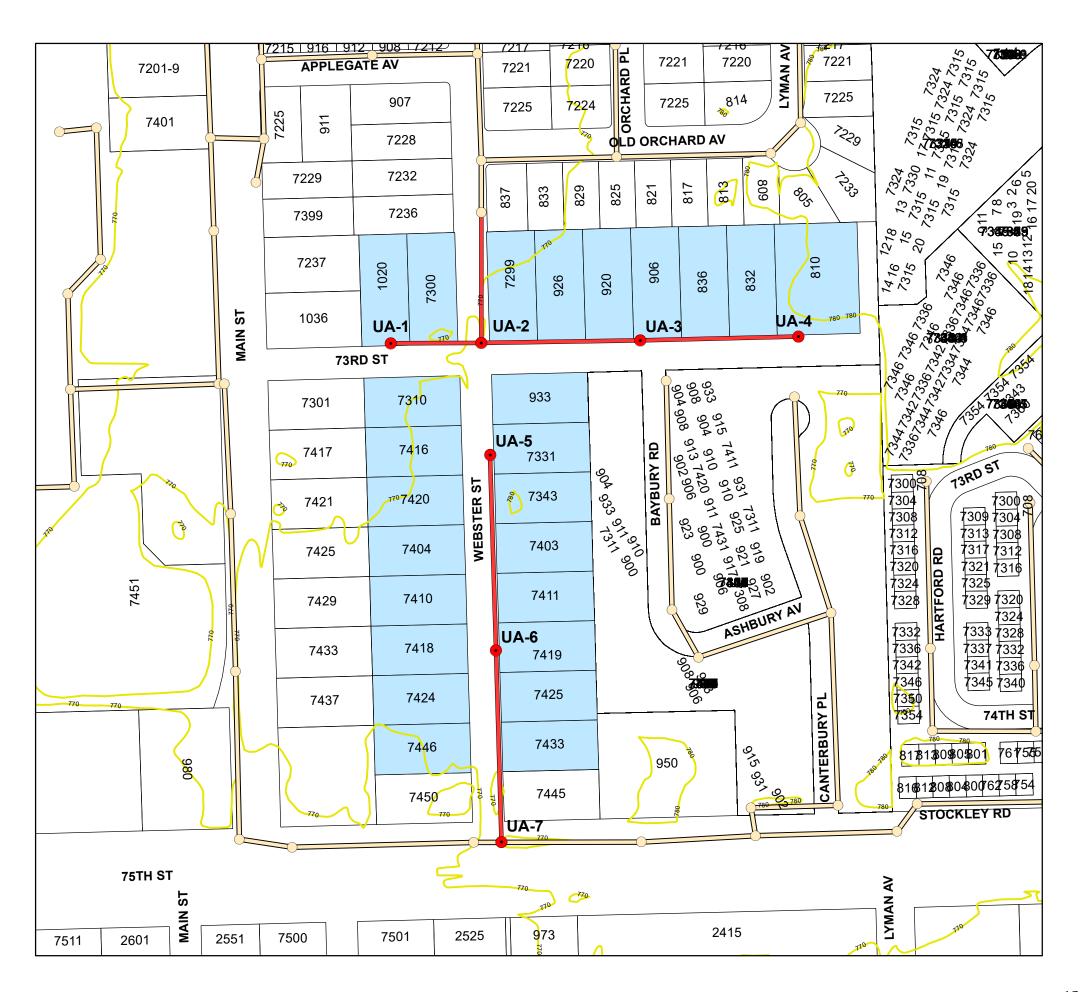


Table 4.1-1

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
73rd and Webster

Preliminary Design Layout

<u>Manhole</u>	Number	Rim	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
73rd Street						
H-7-9-42	2 (existing)	765.3	755.09			10.2
UA-2		771.8	759.74	310	1.50%	12.1
UA-3		775.5	764.99	350	1.50%	10.5
				340	0.40%	
UA-4		777.5	766.35	200	0.40%	11.2
UA-1		768.5	760.54			8.0
Webster Street						
UA-7		770.7	760.77			9.9
UA-6		774.3	763.97	400	0.80%	10.3
				400	0.80%	
UA-5		776.0	767.17			8.8

Table 4.1-2

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

73rd and Webster

Engineer's Opinion of Probable Construction Cost

March 2020

		Approxin	oximate Unit			
No.	Pay Item	Quanti	ity		Price	Amount
MAIN	ILINE SEWER					
1	SANITARY SEWER (OPEN CUT) 8-inch 8-12 feet deep	2,000	lin. ft.	\$	86.00	\$ 172,000.00
2	SANITARY MANHOLES 48-inch 8-12 feet deep	7	each	\$	6,300.00	\$ 44,100.00
3	CONNECTION TO EXISTING MANHOLE 8-inch	1	each	\$	6,100.00	\$ 6,100.00
4	TRENCH BACKFILL 8-inch 8-12 feet deep	1,097	lin. ft.	\$	112.00	\$ 122,864.00
6	SEWER TELEVISING FOR FINAL INSPECTI	ON 2,000	lin. ft.	\$	2.50	\$ 5,000.00
7	SEWER TESTING FOR FINAL INSPECTION	2,000	lin. ft.	\$	2.50	\$ 5,000.00
8	CULVERT REMOVAL AND REPLACEMENT 12-inch	108	lin. ft.	\$	80.00	\$ 8,640.00
9	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	2,160	sq.yd.	\$	14.00	\$ 30,240.00
10	RESTORATION OF STREETS: Bit. Concrete Street	630	sq.yd.	\$	63.00	\$ 39,690.00
11	REMOVE AND REPLACE DRIVEWAYS Bituminous Concrete	58 43	sq.yd. sq.yd.	\$	48.00 80.00	\$ 2,784.00 3,440.00
12	REMOVE AND REPLACE SIDEWALK 5-foot PCC	50	sq.ft.	\$	13.00	\$ 650.00
13	TREE REMOVAL AND TRIMMING:			Lur	np Sum	\$ 658.00
14	EROSION CONTROL			Lur	np Sum	\$ 987.00

Table 4.1-2

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

73rd and Webster

Engineer's Opinion of Probable Construction Cost

March 2020

No.	Pay Item	• •	proximate Unit Quantity Price				Amount
15	TRAFFIC CONTROL			Lum	ıp Sum	\$	3,290.00
	SUBTOTAL					\$	450,893.00
SER	VICE LATERALS						
1	BUILDING SERVICE LINES						
	Near Side	396	lin. ft.	\$	49.00	\$	19,404.00
	Far Side	1,233	lin. ft.	\$	49.00	\$	60,417.00
2	BUILDING SERVICE BRANCH FITTINGS						
	Near Side	16	each	\$	548.00	\$	8,768.00
	Far Side	9	each	\$	675.00	\$	6,075.00
	1 d. 0.00	Ç	odon	*		<u> </u>	5,575.55
3	BUILDING SERVICE PLUGS:	25	each	\$	206.00	\$	5,150.00
4	RESTORATION OF LAWNS AND PARKWAYS:						
	Topsoil and Sod	260	sq.yd.	\$	12.00	\$	3,120.00
5	RESTORATION OF STREETS:						
Ü	Bit. Concrete Street	172	sq.yd.	\$	62.00	\$	10,664.00
6	TRENCH BACKFILL						
Ü	0-8 feet deep	295	lin. ft.	\$	61.00	\$	17,995.00
	SUBTOTAL					\$	131,593.00
	TOTAL ESTIMATE OF CO	DNSTRUCTION COST				\$	582,500.00
		Contingencies	(20%)				\$116,500.00
		Engineering	(20%)				\$116,500.00
		Legal / Admin	(6%)				\$48,900.00
		Easement Acquisition	` ,				\$39,800.00
	TOTAL OPINION OF PRO	DBABLE COST				\$	904,200.00
				С	ost per lot		\$36,170.00

4.2 Downers Grove Park

Downers Grove Park is a large sub-area within the District's FPA that is currently unsewered. As shown on Exhibit 4.2, the approximate limits of this sub-area are Elmore Avenue and Inverness Avenue to the north, Walnut Avenue to the west, 59th Street to the south, and Belmont Road to the east. The proposed service area includes approximately 196 lots that are mostly developed as single-family residences with septic systems. This evaluation establishes the cost-effective sanitary sewer plan for serving the unsewered properties within the Downers Grove Park sub-area.

Several factors were considered when determining the most cost-effective sewer layout. These factors include topography, major road crossings, wetlands, tree protection, water main and existing utility location, and existing downstream sewer capacity. The Downers Grove Park subarea has one major drainage divide running from west to east, just south of Maple Avenue. Serving these properties by following the ground contours will avoid deep cuts through the higher elevations along the drainage divide. Properties north of this divide will generally be served by the existing manhole at Walnut Avenue and Elmore Avenue, the manhole at the intersection of Janes Avenue and Inverness Avenue, the manhole on Inverness west of Belmont, and the manhole on Elinor Avenue just south of Maple Avenue that was recently constructed as part of the Villas of Maple Woods development. Properties south of the drainage divide can be served by the existing sewers on Walnut Avenue, 59th Street and Hobson Road. The Walnut Avenue sewer has been extended east to Katrine Avenue to provide a manhole to connect to at Katrine and College Road. The 59th Street sewer contains manholes at each cross street to provide connection points for lots along Katrine Avenue, Lomond Avenue, Elinor Avenue and Janes Avenue. The final connection points south of the drainage divide are manholes on Hobson Road at Chase Road and Puffer Road.

In addition to following the ground contours, the low-cost sewer layout also needs to consider avoiding major road crossings. The only major road crossing that would significantly increase construction cost in this sub-area is Maple Avenue. Thus, alternatives were considered to minimize crossing Maple Avenue with both the mainline sewer and building services.

The sewer layout also considered the several wetlands that are located within the sub-area at the following locations: Elinor and Inverness, Katrine and 59th, and Lomond and 59th. Avoiding these wetlands will minimize the time and expense involved in the permitting process for construction in wetlands as well as reduce the costs associated with restoring these areas.

The Village of Downers Grove owns and operates water mains on a majority of the streets within the sub-area. The water main design drawings were reviewed and field investigations of the sewer routes were completed to reduce the potential for utility conflicts and to ensure that the required ten feet of separation from water mains can be achieved.

The final component of this analysis was to evaluate the downstream capacity of the existing sewers. Analysis determined that all of the existing sewers have adequate capacity to receive the additional flow from the Downers Grove Park sub-area.

For this analysis, the subject area was subdivided into smaller, more manageable sub-basins. The sub-basins were created using topography and projected sewer connection points. The following are the proposed sub-basins:

<u>Sub-basin</u>	No. of Services	Layout	Cost Estimate
Katrine-Maple (North)	25	Table 4.2-1	Table 4.2-2
Inverness-Lomond-Elinor-Maple (No	rth) 72	Table 4.2-3	Table 4.2-4
Inverness-Belmont (North)	6	Table 4.2-5	Table 4.2-6
Katrine-College (South)	27	Table 4.2-7	Table 4.2-8
Lomond-College (South)	29	Table 4.2-9	Table 4.2-10
Elinor-College (South)	9	Table 4.2-11	Table 4.2-12
Janes-College (South)	13	Table 4.2-13	Table 4.2-14
Chase-Hobson-Belmont (South)	15	Table 4.2-15	Table 4.2-16

Table 4.2-17 is a summary table of opinions of probable cost. A map of the proposed sewer plan is included in Exhibit 4.2.

The Katrine-Maple (North) sub-basin sewer plan follows the existing topography which falls from Maple Avenue north to the dead end of Katrine Avenue and west to Walnut Avenue. Our analysis determined that parallel sewers on the north and south sides of Maple Avenue will be less expensive than bringing numerous services across the street. A sewer will serve the homes on the north side of Maple Avenue and will be included in the Katrine-Maple (North) sub-basin. The sewer on the south side of Maple will run east to the adjacent Inverness-Lomond-Elinor-Maple (North) sub-basin at Lomond, which is less expensive than another crossing of Maple Avenue. Table 4.2-1 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.2-2 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$856,700, including contingency, engineering, easements, and legal/administrative costs.

The Inverness-Lomond-Elinor-Maple (North) sub-basin sewer plan also follows existing topography from the intersection of Lomond Avenue and Maple Avenue northeast to an existing manhole at Janes Avenue and Inverness Avenue. This sub-basin will include all unsewered properties fronting the south side of Maple Avenue. Two road crossings of Maple are identified to provide flexibility, but only one crossing at Elinor could be utilized if construction phasing allows. The opinion of project cost is \$2,722,200, including contingency, engineering, easements, and legal/administrative costs.

The Inverness-Belmont (North) sub-basin is best served by extending a sewer east from the existing manhole near the intersection of Inverness and Ashbrook. The existing ground slope, which rises from west to east, accommodates the plan for serving this sub-basin. The opinion of project cost is \$178,000, including contingency, engineering, and legal/administrative costs.

The Katrine-College (South) sub-basin sewer plan will follow the drainage divide south to 59th Street. The lots south of College Road will be served by the existing manhole at the southern terminus of Katrine, while lots north of College will be served by the existing sewer at the intersection of Katrine and College. This sewer is not the recommended alternative to serve the

south frontage properties along Maple Avenue because of the costly deep cuts needed through the hill south of Maple. The opinion of project cost is \$611,600, including contingency, engineering, and legal/administrative costs.

The Lomond-College (South) sub-basin sewer plan will follow the drainage divide south to 59th Street. The sub-basin will be served by a sewer that will extend north from the existing manhole near the creek near the southern terminus of Lomond Avenue at 59th Street. This alignment is the most cost effective alternative to serve the area due to the shortest total sewer length and minimizing of utility conflicts. However, the cost per lot is still comparatively larger than for other sub-basins because portions of the sewer will be located in the pavement to avoid the existing water main. The opinion of project cost is \$887,600, including contingency, engineering, and legal/administrative costs.

The Elinor-College (South) sub-basin will be served just as Katrine and Lomond. The ground slope promotes a sewer draining south that will connect to the existing system just north of 59th Street. The northerly limit of the sewer is the southern limit of the Villas of Maple Woods Subdivision. The sewer installed as part of that subdivision will serve several properties north of this sub-basin along Elinor. The opinion of project cost is \$376,300, including contingency, engineering, and legal/administrative costs.

The Janes-College (South) sub-basin will also flow south to 59th Street. Design drawings for the sewers from 59th Street to College and east on College have been reviewed as part of the proposed Robert's and Lisa Marie subdivisions. The design drawings for these subdivisions are consistent with this preliminary sewer plan. This sewer plan is the least costly because it will not contain any deep sections due to the consistent southerly ground slope. The opinion of project cost is \$400,600, including contingency, engineering, and legal/administrative costs.

The Chase-Hobson-Belmont (South) sub-basin is also best served by sanitary sewers draining to the south to match the topography. A sewer should be constructed north along Chase Road from the existing manhole approximately 200 feet north of Hobson. Belmont Road will be served by a sewer that extends north from Hobson and Puffer. A major factor in the higher cost per lot of this sub-basin was the trench backfill and pavement restoration needed along Belmont Road. The opinion of project cost is \$641,700, including contingency, engineering, and legal/administrative costs.

DOWNERS GROVE SANITARY DISTRICT UNSEWERED AREA PLAN

EXHIBIT 4.2

DOWNERS GROVE PARK POSSIBLE SEWER ALIGNMENT

MARCH 2020

LEGEND

PROPOSED MANHOLES

PROPOSED SEWERS

EXISTING MANHOLES

EXISTING SEWERS

PARCEL BOUNDARIES

KATRINE-MAPLE (NORTH):TABLES 4.2-1, 4.2-2

INVERNESS-LOMOND-ELINOR-MAPLE (NORTH):TABLES 4.2-3, 4.2-4

INVERNESS-BELMONT (NORTH):TABLES 4.2-5, 4.2-6

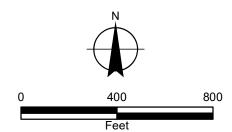
KATRINE-COLLEGE (SOUTH):TABLES 4.2-7, 4.2-8

LOMOND-COLLEGE (SOUTH):TABLES 4.2-11, 4.2-10

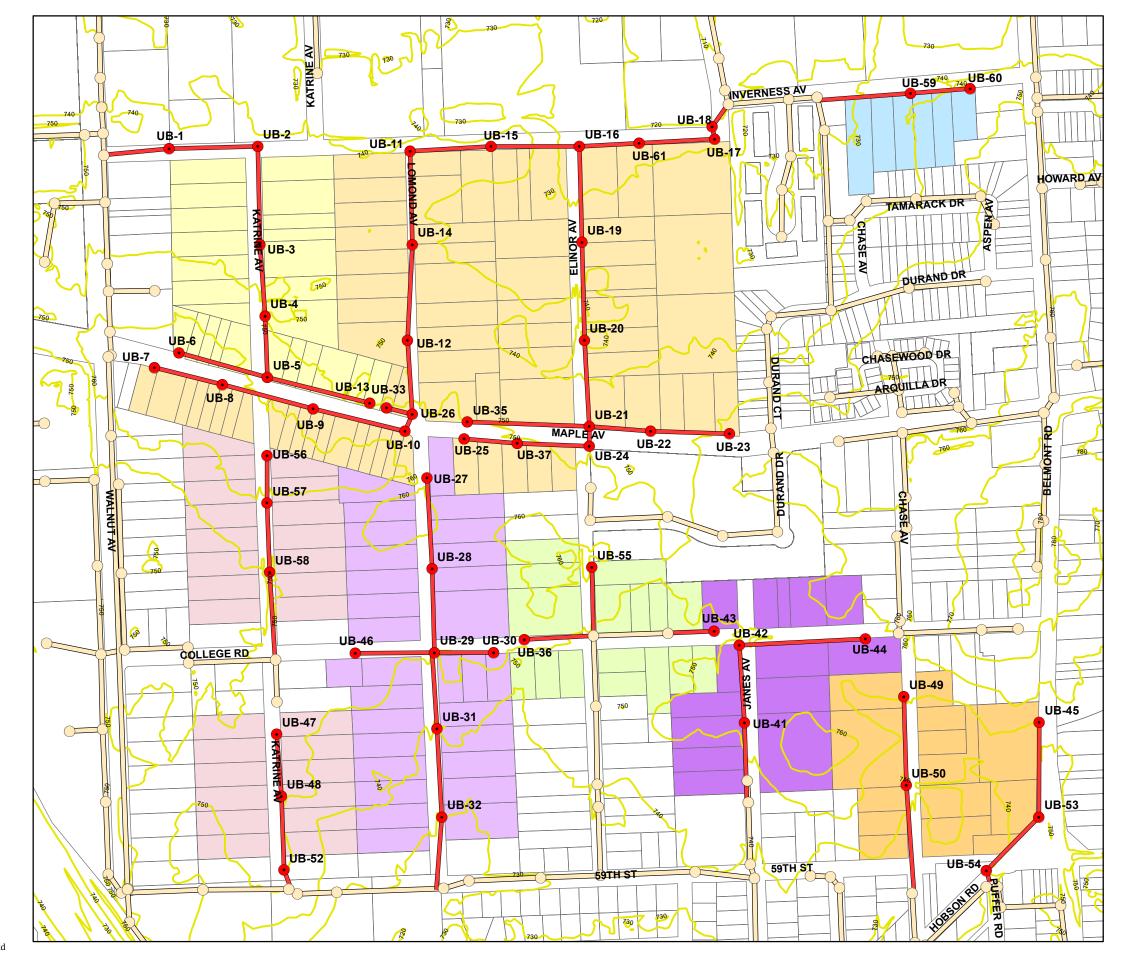
ELINOR-COLLEGE (SOUTH):TABLES 4.2-11, 4.2-12

JANES-COLLEGE (SOUTH):TABLES 4.2-13, 4.2-14

CHASE-HOBSON-BELMONT (SOUTH):TABLES 4.2-15, 4.2-16







 $\label{logsd1} $$ \operatorname{Crystal Lake}DGSD1\200407-2020\ UAP\GIS\MXDs\4-2\ dg\ park.mxd\ 563dks\ -3/24/2020\ Copyright\ 2019,\ By\ Baxter\ \&\ Woodman,\ Inc.$

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Table 4.2-1

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Katrine-Maple (North)

Preliminary Design

					Manhole		
Manhole Number	Rim	<u>Invert</u>	Length (ft)	<u>Slope</u>	<u>Depth</u>		
Katrine Avenue							
3-A-23 (existing)	748.1	732.36			15.7		
			255	1.00%			
UB-1	741.0	734.91			6.1		
			346	0.40%			
UB-2	742.0	736.29			5.7		
LID O	740.0	707.00	400	0.40%	0.4		
UB-3	746.3	737.89	200	0.40%	8.4		
UB-4	749.5	739.09	300	0.40%	10.4		
0D 1	743.5	700.00	275	0.40%	10.4		
UB-5	757.3	740.19	210	0.1070	17.1		
Maple Avenue							
			420	0.40%			
UB-13	749.0	741.87			7.1		
			380	2.00%			
UB-6	756.0	747.79			8.2		

Table 4.2-2

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Katrine-Maple (North)

Engineer's Opinion of Probable Construction Cost

March 2020

			Approxima	te		Unit		_
No.	Pay Item		Quantity			Price		Amount
MAINLI	NE SEWER							
1	SANITARY S	EWER (OPEN CUT)					
	8-inch	0-8 feet deep	•	lin. ft.	\$	74.00	\$	19,980.00
		8-12 feet deep	996	lin. ft.	\$	86.00	\$	85,656.00
		12-16 feet deep	705	lin. ft.	\$ \$ \$	105.00	\$ \$ \$	74,025.00
		16-20 feet deep	150	lin. ft.	\$	126.00	\$	18,900.00
2	SANITARY SE	EWER (DIRECTION	AL DRILLED)					
	8-inch	•	•	lin. ft.	\$	272.00	\$	69,360.00
3	SANITARY M	IANHOLES						
3	48-inch	0-8 feet deep	3	each	\$	4,800.00	\$	14,400.00
	10 111011	8-12 feet deep	3	each	\$	6,300.00	\$ \$ \$	18,900.00
		16-20 feet deep	1	each	\$	10,200.00	\$	10,200.00
		10 20 100t doop	·	Caon	Ψ	10,200.00	Ψ	10,200.00
4		N TO EXISTING MA						
	8-inch		1	each	\$	6,100.00	\$	6,100.00
5	TRENCH BA	CKFILL						
	8-inch	0-8 feet deep	35	lin. ft.	\$	92.00	\$	3,220.00
		8-12 feet deep	95	lin. ft.	\$ \$	112.00	\$	10,640.00
		12-16 feet deep	70	lin. ft.	\$	136.00	\$	9,520.00
		16-20 feet deep	25	lin. ft.	\$	178.00	\$	4,450.00
6	TREE TUNNI	ELING	250	lin. ft.	\$	190.00	\$	47,500.00
7	, OEWED TEL	EVICING FOR FINA	LINCDECTIO	N.I.				
7	SEWER IEL	EVISING FOR FINA		lin. ft.	\$	2.50	\$	5,940.00
			_,0.0		<u>*</u>		<u> </u>	0,010.00
8	SEWER TES	TING FOR FINAL IN						
			2,376	lin. ft.	\$	2.50	\$	5,940.00
9	CULVERT RE	EMOVAL AND REPL	ACEMENT					
_	12-inch			lin. ft.	\$	80.00	\$	6,800.00
10	RESTORATION	ON OF LAWNS						
.0	AND PARKW							
	Topsoil a		708	sq.yd.	\$	14.00	\$	9,912.00
	Topsoil a			sq.yd.	\$	14.00	\$	40,320.00
4.4	DESTORATION	ON OF STREETS						
1.1	Bitumino		33	sq.yd.	\$	63.00	\$	2,079.00
				- 1-7	~		-	-, 5.50

Table 4.2-2

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Katrine-Maple (North)

Engineer's Opinion of Probable Construction Cost

March 2020

		Approximate	Unit	
No.	Pay Item	Quantity	Price	Amount
12	REMOVE AND REPLACE DR	NIVEWAYS		
	Bituminous	120 sq.yd.	\$ 48.00	\$ 5,760.00
	PCC Driveway	45 sq.yd.	\$ 80.00	\$ 5,760.00 \$ 3,600.00
	Gravel Driveway	50 sq.yd.	\$ 20.00	\$ 1,000.00
13	TREE REMOVAL & TRIMMIN	G	Lump Sum	\$ 2,632.00
14	TRAFFIC CONTROL		Lump Sum	\$ 9,870.00
	SUBTOTAL			\$ 486,704.00
SERVIC	E LATERALS			
1	BUILDING SERVICE LINES			
	Near side	210 lin. ft.	\$ 49.00	\$ 10,290.00
	Far side	400 lin. ft.	\$ 49.00	\$ 19,600.00
2	BUILDING SERVICE BRANCH FITTINGS			
	Near Side	17 each	\$ 548.00	\$ 9,316.00
	Far side	8 each	\$ 675.00	\$ 5,400.00
3	BUILDING SERVICE PLUG	25 each	\$ 206.00	\$ 5,150.00
4	RESTORATION OF LAWNS	AND PARKWAYS:		
·	Sod	340 sq.yd.	\$ 14.00	\$ 4,760.00
5	RESTORATION OF STREET	S:		
-	Bit. Concrete Street	60 sq.yd.	\$ 62.00	\$ 3,720.00
6	TRENCH BACKFILL			
U	0-8 feet deep	152 lin. ft.	\$ 61.00	\$ 9,272.00
	SUBTOTAL			\$ 67,508.00
	TOTAL ESTIMATE OF CO	ONSTRUCTION COST		\$ 554,200.00
		Continuos issa (200/)		£440,000,00
		Contingencies (20%) Engineering (20%)		\$110,800.00 \$110,800.00
		Legal / Admin (6%)		\$46,500.00
		Easement Acquisition		\$34,400.00
	TOTAL OPINION OF PRO	DBABLE COST		\$ 856,700.00
			Cost per lot	\$34,270.00
			F	

Table 4.2-3

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
Inverness-Lomond-Elinor-Maple (North)

Preliminary Design

Preliminary Design									
Manhole Number	Rim	<u>Invert</u>	Length (ft)	<u>Slope</u>	Manhole <u>Depth</u>				
Inverness Avenue (Janes	Inverness Avenue (Janes to Lomond)								
2-A-71A (existing)	717.7	704.82	42	1.20%	12.9				
UB-18	717.5	705.32			12.2				
UB-17	726.0	709.07	125	3.00%	16.9				
UB-61	723.8	713.15	340	1.20%	10.6				
UB-16	725.5	716.56	284	1.20%	8.9				
UB-15	742.5	728.56	400	3.00%	13.9				
UB-11	742.3	731.12	320	0.80%	11.1				
Lomond Avenue (Inverne	ss to Maple)								
			390	0.40%					
UB-14	741.3	732.68	400	0.80%	8.6				
UB-12	747.3	735.88	333	0.80%	11.4				
UB-26	750.3	738.55			11.7				
Maple Avenue (west of Lo	omond)								
UB-33	748.0	739.09	135	0.40%	8.9				
UB-10	754.0	739.19	80	0.80%	14.8				
UB-9	754.0	742.39	400	0.80%	11.6				
UB-8	762.0	746.39	400	1.00%	15.6				
UB-7	763.0	748.89	250	1.00%	14.1				

Table 4.2-3

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
Inverness-Lomond-Elinor-Maple (North)

Preliminary Design

Manhole Numbe	<u>r Rim</u>	Invert	Length (ft)	Slope	Manhole <u>Depth</u>			
Elinor Avenue (Inverness to Maple)								
			400	2.00%	40.0			
UB-19	735.5	724.56	400	1.50%	10.9			
UB-20	738.8	730.56	375	1.50%	8.2			
UB-21	747.0	736.19			10.8			
Maple Avenue (east and	d west of Elinor).						
			350	0.80%				
UB-22	747.0	738.99	250	0.80%	8.0			
UB-23	750.0	740.99	450	0.80%	9.0			
UB-35	750.5	739.79			10.7			
UB-24	748.0	736.99	80	1.00%	11.0			
UB-37	750.0	739.99	300	1.00%	10.0			
	752.0		300	1.00%	9.0			
UB-25	732.0	742.99			9.0			

Table 4.2-4

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
Inverness-Lomond-Elinor-Maple (North)

Engineer's Opinion of Probable Construction Cost

			Approxima	te		Unit		
No.	Pay Item		Quantity			Price		Amount
MAINL	INE SEWER							
1	SANITARY S	SEWER (OPEN CUT)					
	8-inch	8-12 feet deep	5,193	lin. ft.	\$	86.00	\$	446,598.00
		12-16 feet deep	920	lin. ft.	\$	105.00	\$ \$ \$	96,600.00
		16-20 feet deep	691	lin. ft.	\$	126.00	\$	87,066.00
2	SANITARY M	AANHOLES						
2	48-inch	8-12 feet deep	19	each	\$	6,300.00	\$	119,700.00
	40-111011	12-16 feet deep	3		\$	7,600.00	\$	22,800.00
		16-20 feet deep	1	each	\$	10,200.00	\$	10,200.00
		10 20 100t doop	•	odon	<u> </u>	10,200.00	Ψ	10,200.00
3	CONNECTIO	N TO EXISTING MA	ANHOLE					
	8-inch		1	each	\$	6,100.00	\$	6,100.00
4					•		•	
	8-inch	8-12 feet deep	3,050		\$	112.00	\$	341,600.00
		12-16 feet deep		lin. ft.	\$ \$	136.00	\$	68,272.00
		16-20 feet deep	184	lin. ft.	<u>\$</u>	178.00	\$	32,752.00
5	TREE TUNN	ELING	350	lin. ft.	\$	190.00	\$	66,500.00
6	SEWED TEL	EVISING FOR FINA	LINCRECTIO	NI.				
O	SEVVER TEL	EVISING FOR FINA	6,804		\$	2.50	\$	17,010.00
			0,004		Ψ	2.00	Ψ	17,010.00
7	SEWER TES	TING FOR FINAL IN	ISPECTION					
			6,804	lin. ft.	\$	2.50	\$	17,010.00
8	CUI VERT RI	EMOVAL AND REPL	ACEMENT					
O	12-inch	LINOVALANDREI		lin. ft.	\$	80.00	\$	41,200.00
					<u>*</u>		<u>*</u>	
9	RESTORATION	ON OF LAWNS						
	AND PARKW	/AYS:						
	Topsoil a	nd seed	308	sq.yd.	\$	14.00	\$	4,312.00
	Sod		3,378	sq.yd.	\$	14.00	\$	47,292.00
10	RESTORATION	ON OF STREETS						
10	Bitumino		2.000	sq.yd.	\$	63.00	\$	126,000.00
		b & Gutter		lin. ft.	\$	41.00	\$ \$ \$	2,460.00
	PCC Side			sq. ft.	\$ \$	13.00	\$	8,450.00
				•				,

Table 4.2-4

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
Inverness-Lomond-Elinor-Maple (North)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity		Unit Price		Amount
		·				7
11	REMOVE AND REPLACE DRIV		Ф	40.00	φ	42,020,00
	Bituminous PCC Driveway	290 sq.yd. 75 sq.yd.	<u>Φ</u>	48.00 80.00	<u>Φ</u>	13,920.00 6,000.00
	Gravel Driveway	75 sq.yd. 25 sq.yd.	\$ \$ \$	20.00	\$ \$ \$	500.00
12	TREE REMOVAL & TRIMMING		Lump	Sum	\$	4,606.00
13	TRAFFIC CONTROL		Lump	Sum	\$	19,740.00
	SUBTOTAL				\$	1,606,688.00
SERVI	CE LATERALS					
1	BUILDING SERVICE LINES					
	Near side	763 lin. ft.	\$	49.00	\$	37,387.00
	Far side	400 lin. ft.	\$	49.00	\$	19,600.00
2	BUILDING SERVICE BRANCH FITTINGS					
	Near Side	59 each	\$	548.00	\$	32,332.00
	Far side	13 each	\$	675.00	\$	8,775.00
3	BUILDING SERVICE PLUG	72 each	\$	206.00	\$	14,832.00
4	RESTORATION OF LAWNS AN	ID PARKWAYS:				
	Sod	1,004 sq.yd.	\$	14.00	\$	14,056.00
5	RESTORATION OF STREETS:				_	
	Bit. Concrete Street	149 sq.yd.	\$	62.00	\$	9,238.00
6	TRENCH BACKFILL					
	0-8 feet deep	260 lin. ft.	\$	61.00	\$	15,860.00
	SUBTOTAL				\$	152,080.00
	TOTAL ESTIMATE OF CON	ISTRUCTION COST			\$	1,758,800.00
	(Contingencies (20%)				\$351,800.00
	E	Engineering (20%)				\$351,800.00
		_egal / Admin (6%)				\$147,700.00
	E	Easement Acquisition				\$112,100.00
	TOTAL OPINION OF PROB	ABLE COST			\$	2,722,200.00

Cost per lot

Table 4.2-5

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
Inverness-Belmont (North)

Preliminary Design Layout

Manhole Number	Rim	Invert	Length (ft)	Slope	Manhole <u>Depth</u>
Inverness Avenue					
2-A-71F existing	725.4	715.59	400	2.20%	9.8
UB-59	734.0	724.39	250	2.20%	9.6
UB-60	738.0	729.89	250	2.2070	8.1

Table 4.2-6

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
Inverness-Belmont (North)

Engineer's Opinion of Probable Construction Cost

			Approximat	te		Unit		
No.	Pay Item		Quantity			Price		Amount
MAINLIN	NE SEWER							
1	SANITARY SE	EWER (OPEN CUT)						
	8-inch	0-8 feet deep	200	lin. ft.	\$	74.00	\$	14,800.00
		8-12 feet deep	450	lin. ft.	\$	86.00	\$	38,700.00
2	SANITARY MA	ANHOLES						
_	48-inch	0-8 feet deep	1	each	\$	4,800.00	\$	4,800.00
		8-12 feet deep	1	each	\$	6,300.00	\$	6,300.00
2	CONNECTION	N TO EVICTING MAN	ILIOI E					
3	8-inch	N TO EXISTING MAN	inole 1	each	\$	6,100.00	\$	6,100.00
	O IIIOII			Cacii	Ψ	0,100.00	Ψ	0,100.00
4	TRENCH BAC	KFILL						
	8-inch	0-8 feet deep	_	lin. ft.	\$	92.00	\$	4,416.00
		8-12 feet deep	96	lin. ft.	\$	112.00	\$	10,752.00
5	TREE TUNNE	LING	0	lin. ft.	\$	190.00	\$	0.00
6	SEWER TELE	EVISING FOR FINAL	INISPECTION	d				
Ü	OLWEN TELL	I VIOINO I OIL I IIVAL		lin. ft.	\$	2.50	\$	1,625.00
7	SEWER TEST	TING FOR FINAL INS			•		•	4 00= 00
			650	lin. ft.	\$	2.50	\$	1,625.00
8	CULVERT RE	MOVAL AND REPLA	CEMENT					
	12-inch		40	lin. ft.	\$	80.00	\$	3,200.00
	5505054510				' <u>-</u>			_
9	RESTORATION AND PARKWA							
	Topsoil a		900	sq.yd.	\$	14.00	\$	12,600.00
	. 5655 5			5 q. y s.:	<u> </u>		<u> </u>	.=,000.00
10		ON OF STREETS:						
	Bit. Concr	ete Street	0	sq.yd.	\$	63.00	\$	0.00
11	REMOVE ANI	D REPLACE DRIVEW	/AYS					
	Bituminou			sq.yd.	\$	48.00	\$	3,264.00
	Concrete			sq.yd.	\$	80.00	\$	960.00
12	TREE REMOV	/AL AND TRIMMING:			Lur	mp Sum	\$	0.00
12	LL INLINIO				Lui		Ψ	0.00

Table 4.2-6

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
Inverness-Belmont (North)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity	Unit Price	Amount
INO.	ray itelli	Quartity	FIICE	Amount
13	EROSION CONTROL		Lump Sum	\$ 987.00
14	TRAFFIC CONTROL		Lump Sum	\$ 987.00
	SUBTOTAL			\$ 111,116.00
SERVIC	E LATERALS			
1	BUILDING SERVICE LINES Near side Far side	72 lin. ft. 0 lin. ft.	\$ 49.00 \$ 49.00	\$ 3,528.00 \$ 0.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	6 each 0 each	\$ 548.00 \$ 675.00	\$ 3,288.00 \$ 0.00
3	BUILDING SERVICE PLUG	6 each	\$ 206.00	\$ 1,236.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and seed	50 sq.yd.	\$ 14.00	\$ 700.00
5	RESTORATION OF STREETS Bit. Concrete Street	o sq.yd.	\$ 62.00	\$ 0.00
6	TRENCH BACKFILL 0-8 feet deep	0 lin. ft.	\$ 61.00	\$ 0.00
	SUBTOTAL			\$ 8,752.00
	TOTAL ESTIMATE OF CO	NSTRUCTION COST		\$ 119,900.00
		Contingencies (20%) Engineering (20%) Legal / Admin (6%)		\$24,000.00 \$24,000.00 \$10,100.00
	TOTAL OPINION OF PRO	BABLE COST		\$ 178,000.00
			Cost per lot	\$29,670.00

Table 4.2-7

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Katrine-College (South)

Preliminary Design

Manhole Number	Rim	Invert	Length (ft)	Slope	Manhole <u>Depth</u>
Katrine Avenue (south of Co	ollege)				
H-8-22 (ex.)	745.0	725.86			
UB-52	751.0	735.81	39	5.00%	15.2
UB-48	754.0	738.81	300	1.00%	15.2
UB-47	752.0	740.21	350	0.40%	11.8
Katrine Avenue (north of Co	<u>illege)</u>				
Katrine & College (ex.)	751.1	739.60			
UB-58	751.0	743.20	360	1.00%	7.8
UB-57	760.0	749.20	300	2.00%	10.8
UB-56	764.0	753.20	200	2.00%	10.8
06-00	104.0	155.20			10.0

Table 4.2-8

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Katrine-College (South)

Engineer's Opinion of Probable Construction Cost

			Approximat	e		Unit		
No.	Pay Item		Quantity			Price		Amount
MAINILI	NE SEWER							
MAINLI	NE SEWER							
1	SANITARY SE	EWER (OPEN CUT)						
	8-inch	0-8 feet deep	760	lin. ft.	\$	74.00	\$	56,240.00
		8-12 feet deep	499	lin. ft.	\$	86.00	\$	42,914.00
		12-16 feet deep	290	lin. ft.	\$	105.00	\$	30,450.00
2	SANITARY M	ANHOLES						
_	48-inch	0-8 feet deep	2	each	\$	4,800.00	\$	9,600.00
		8-12 feet deep	2	each	\$	6,300.00	\$	12,600.00
		12-16 feet deep	2	each	\$	7,600.00	\$	15,200.00
		·						
3	DROP CONN	ECTION			_			
	8-inch		8	lin. ft.	\$	329.00	\$	2,632.00
4	CONNECTIO	N TO EXISTING MAN	JHOLF					
7	8-inch	IV TO EXISTING WITH	1	each	\$	6,100.00	\$	6,100.00
	0		·	00.01.	<u> </u>	<u> </u>	Ψ	3,:33:33
5	TRENCH BAC							
	8-inch	0-8 feet deep		lin. ft.	\$	92.00	\$	14,352.00
		8-12 feet deep		lin. ft.	\$	112.00	\$	7,280.00
		12-16 feet deep	104	lin. ft.	\$	136.00	\$	14,144.00
6	TREE TUNNE	ELING	80	lin. ft.	\$	190.00	\$	15,200.00
7	SEWER TELF	EVISING FOR FINAL	INISPECTION	d				
,	OLWEN TEEL	- VIOIIVO I OKTIIVAL	1,549		\$	2.50	\$	3,872.50
					<u>*</u>		<u>*</u>	
8	SEWER TEST	TING FOR FINAL INS		II. 6.	•	0.50	•	0.070.50
			1,549	lın. ft.	\$	2.50	\$	3,872.50
9	CULVERT RE	MOVAL AND REPLA	CEMENT					
· ·	12-inch			lin. ft.	\$	80.00	\$	17,600.00
								· · · · · · · · · · · · · · · · · · ·
10		ON OF LAWNS						
	AND PARKW							
	Topsoil a	and sod	2,130	sq.yd.	\$	14.00	\$	29,820.00
11	RESTORATIO	ON OF STREETS:						
• •		ete Street	12	sq.yd.	\$	63.00	\$	756.00
				. , ,	<u>·</u>		<u> </u>	
12		D REPLACE DRIVEW	/AYS					
	Bituminou	IS		sq.yd.	\$	48.00	\$	7,200.00
	Concrete		25	sq.yd.	\$	80.00	\$	2,000.00

Table 4.2-8

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Katrine-College (South)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity	Unit Price	Amount
13	TREE REMOVAL AND TRIMMING	:	Lump Sum	\$ 8,554.00
14	EROSION CONTROL		Lump Sum	\$ 987.00
15	TRAFFIC CONTROL		Lump Sum	\$ 3,290.00
	SUBTOTAL			\$ 304,664.00
SERVIC	CE LATERALS			
1	BUILDING SERVICE LINES Near side Far side	205 lin. ft. 715 lin. ft.	\$ 49.00 \$ 49.00	\$ 10,045.00 \$ 35,035.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	13 each 14 each	\$ 548.00 \$ 675.00	\$ 7,124.00 \$ 9,450.00
3	BUILDING SERVICE PLUG	27 each	\$ 206.00	\$ 5,562.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and seed	685 sq.yd.	\$ 14.00	\$ 9,590.00
5	RESTORATION OF STREETS: Bit. Concrete Street	195 sq.yd.	\$ 62.00	\$ 12,090.00
6	TRENCH BACKFILL 0-8 feet deep	305 lin. ft.	\$ 61.00	\$ 18,605.00
	SUBTOTAL			\$ 107,501.00
	TOTAL ESTIMATE OF CONST	RUCTION COST		\$ 412,200.00
	Eng	ntingencies (20%) gineering (20%) gal / Admin (6%)		\$82,400.00 \$82,400.00 \$34,600.00
	TOTAL OPINION OF PROBAB	SLE COST		\$ 611,600.00
			Cost per	lot \$22,650.00

Table 4.2-9

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Lomond-College (South)

Preliminary Design Layout

Manhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
Lomond Avenue					
H-8-19 existing	725.0	720.00		4.0004	5.0
UB-32	732.0	723.97	305	1.30%	8.0
UB-31	738.0	730.57	300	2.20%	7.4
			400	3.40%	
UB-29	752.0	744.17	370	1.10%	7.8
UB-28	756.0	748.24	375	0.50%	7.8
UB-27	758.0	750.11			7.9
College Road			0.45	0.500/	
UB-30	753.0	745.39	245	0.50%	7.6
UB-46	755.0	747.17	300	1.00%	7.8

Table 4.2-10

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Lomond-College (South)

Engineer's Opinion of Probable Construction Cost

		Approximate	Unit	
No.	Pay Item	Quantity	Price	Amount
MAINL	INE SEWER			
1	SANITARY SEWER (OPEN CUT) 8-inch 0-8 feet deep	2,295 lin. ft.	\$ 74.00	\$ 169,830.00
2	SANITARY MANHOLES 48-inch 0-8 feet deep	7 each	\$ 4,800.00	\$ 33,600.00
3	CONNECTION TO EXISTING MANH 8-inch	IOLE 1 each	\$ 6,100.00	\$ 6,100.00
4	TRENCH BACKFILL 8-inch 0-8 feet deep	1,599 lin. ft.	\$ 92.00	\$ 147,108.00
5	TREE TUNNELLING	40 lin. ft.	\$ 190.00	\$ 7,600.00
6	WATER MAIN RELOCATION:	1 each	\$ 7,000.00	\$ 7,000.00
7	SEWER TELEVISING FOR FINAL IN	ISPECTION 2,295 lin. ft.	\$ 2.50	\$ 5,737.50
8	SEWER TESTING FOR FINAL INSP	ECTION 2,295 lin. ft.	\$ 2.50	\$ 5,737.50
9	CULVERT REMOVAL AND REPLAC 12-inch	EMENT: 76 lin. ft.	\$ 80.00	\$ 6,080.00
10	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	1,548 sq.yd.	\$ 14.00	\$ 21,672.00
11	RESTORATION OF STREETS: Bituminous Concrete Street	1,069 sq.yd.	\$ 63.00	\$ 67,347.00
12	REMOVE AND REPLACE DRIVEWA Bituminous Driveway PCC Driveway	AYS: 39 sq.yd. 10 sq.yd.	\$ 48.00 \$ 80.00	\$ 1,872.00 \$ 800.00
13	TREE REMOVAL AND TRIMMING:		Lump Sum	\$ 2,632.00
14	EROSION CONTROL:		Lump Sum	\$ 987.00

Table 4.2-10

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Lomond-College (South)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity	Unit Price	Amount
	<u> </u>			_
15	TRAFFIC CONTROL:		Lump Sum	\$ 6,580.00
	SUBTOTAL			\$ 490,683.00
SERVI	ICE LATERALS			
1	BUILDING SERVICE LINES			
	Near side	360 lin. ft.	\$ 49.00	\$ 17,640.00
	Far side	630 lin. ft.	\$ 49.00	\$ 30,870.00
2	BUILDING SERVICE			
	BRANCH FITTINGS			
	Near Side	14 each	\$ 548.00	\$ 7,672.00
	Far side	15 each	\$ 675.00	\$ 10,125.00
3	BUILDING SERVICE PLUG	29 each	\$ 206.00	\$ 5,974.00
4	RESTORATION OF LAWNS AND PARKWAYS:			
	Topsoil and sod	783 sq.yd.	\$ 14.00	\$ 10,962.00
5	RESTORATION OF STREETS:			
	Bituminous Concrete Street	140 sq.yd.	\$ 62.00	\$ 8,680.00
6	TRENCH BACKFILL			
	0-8 feet deep	255 lin. ft.	\$ 61.00	\$ 15,555.00
	SUBTOTAL			\$ 107,478.00
	TOTAL ESTIMATE OF CONST	RUCTION COST		\$ 598,200.00
		Continuos	(000()	£440,000,00
		Contingencies Engineering	(20%) (20%)	\$119,600.00 \$119,600.00
		Legal / Admin	(6%)	\$50,200.00
	TOTAL OPINION OF PROBAB	LE COST		\$ 887,600.00
				. ,
			Cost per lo	st \$30,610.00

Table 4.2-11

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Elinor-College (South)

Preliminary Design Layout

<u>Manhole</u>	Number	Rim	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
Elinor Avenue						
H-8-54 (existing)	747.9	737.90	205	2.00%	10.0
UB	-55	760.0	749.75	395	3.00%	10.3
College Road						
H-8-55 (existing)	745.4	738.99			
UB-	-43	748.5	740.79	225	0.80%	7.7
UB-	-36	749.5	739.58	420	0.40%	9.9

Table 4.2-12

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Elinor-College (South)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity	Unit Price	Amount
MAINLIN	IE SEWER			
1	SANITARY SEWER (OPEN CUT)	4.040 15 6	Ф 00.00	Φ 00.440.00
	8-inch 8-12 feet deep	1,040 lin. ft.	\$ 86.00	\$ 89,440.00
2	SANITARY MANHOLES 48-inch 8-12 feet deep	3 each	\$ 6,300.00	\$ 18,900.00
3	CONNECTION TO EXISTING MA 8-inch	NHOLE 3 each	\$ 6,100.00	\$ 18,300.00
4	TRENCH BACKFILL 8-inch 8-12 feet deep	140 lin. ft.	\$ 112.00	\$ 15,680.00
5	TREE TUNNELING	150 lin. ft.	\$ 190.00	\$ 28,500.00
6	SEWER TELEVISING FOR FINAL	. INSPECTION 1,040 lin. tt.	\$ 2.50	\$ 2,600.00
7	SEWER TESTING FOR FINAL IN	SPECTION 1,040 lin. ft.	\$ 2.50	\$ 2,600.00
8	CULVERT REMOVAL AND REPLA 12-inch 24-inch	ACEMENT 40 lin. ft. 20 lin. ft.	\$ 80.00 \$ 165.00	\$ 3,200.00 \$ 3,300.00
9	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and Sod	1,596 sq.yd.	\$ 14.00	\$ 22,337.78
10	RESTORATION OF STREETS: Bit. Concrete Street	71 sq.yd.	\$ 63.00	\$ 4,480.00
11	REMOVE AND REPLACE DRIVEN Bituminous Concrete	WAYS 33 sq.yd. 33 sq.yd.	\$ 48.00 \$ 80.00	\$ 1,600.00 \$ 2,666.67
12	TREE REMOVAL AND TRIMMING	3 :	Lump Sum	\$ 2,500.00
13	EROSION CONTROL		Lump Sum	\$ 750.00
14	TRAFFIC CONTROL		Lump Sum	\$ 2,000.00
	SUBTOTAL			\$ 218,854.44

Table 4.2-12

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Elinor-College (South)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity	Unit Price	Amount
SERVIC	E LATERALS			
1	BUILDING SERVICE LINES			
	Near side	75 lin. ft.	\$ 49.00	\$ 3,675.00
	Far side	150 lin. ft.	\$ 49.00	\$ 7,350.00
2	BUILDING SERVICE			
	BRANCH FITTINGS			
	Near Side	5 each	\$ 548.00	\$ 2,740.00
	Far side	4 each	\$ 675.00	\$ 2,700.00
3	BUILDING SERVICE PLUG	9 each	\$ 206.00	\$ 1,854.00
4	RESTORATION OF LAWNS AND PARKWAYS:			
	Topsoil and seed	325 sq.yd.	\$ 14.00	\$ 4,550.00
5	RESTORATION OF STREETS	S:		
	Bit. Concrete Street	64 sq.yd.	\$ 62.00	\$ 3,968.00
6	TRENCH BACKFILL			
	8-12 feet deep	96 lin. ft.	\$ 82.00	\$ 7,872.00
	SUBTOTAL			\$ 34,709.00
	TOTAL ESTIMATE OF CO	ONSTRUCTION COST		\$ 253,600.00
		Contingonsias (2001)		ΦΕΩ 700 00
		Contingencies (20%) Engineering (20%)		\$50,700.00 \$50,700.00
		Legal / Admin (6%)		\$21,300.00
	TOTAL OPINION OF PRO	BABLE COST		\$ 376,300.00

Cost per lot \$41,810.00

Table 4.2-13

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Janes-College (South)

Preliminary Design Layout

	Manhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
Janes A	<u>Avenue</u>					
	H-8-56 existing	747.0	735.35	230	1.50%	
	UB-41	751.0	738.80	300	1.25%	12.2
	UB-42	750.0	742.55		0,0	7.4
College	Road			440	1.25%	
	UB-44	756.0	748.05	770	1.20/0	7.9

Table 4.2-14

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Janes-College (South)

Engineer's Opinion of Probable Construction Cost

			Approximate)		Unit		
No.	Pay Item		Quantity			Price		Amount
MAINLIN	IE SEWER							
1	SANITARY SI	EWER (OPEN CUT)						
	8-inch	0-8 feet deep	300	lin. ft.	\$	74.00	\$	22,200.00
		8-12 feet deep	670	lin. ft.	\$	86.00	\$	57,620.00
2	SANITARY M	ANHOLES						
_	48-inch	0-8 feet deep	1	each	\$	4,800.00	\$	4,800.00
		8-12 feet deep		each	\$	6,300.00	\$	12,600.00
2	CONNECTIO	N TO EXISTING MANI	JOLE			_		
3	8-inch	N TO EXISTING MAIN		each	\$	6,100.00	\$	6,100.00
	O-IIICII		ı	each	Φ	6,100.00	Ψ	0,100.00
4	TRENCH BAC	CKFILL						
	8-inch	0-8 feet deep		lin. ft.	\$	92.00	\$	4,968.00
		8-12 feet deep	260	lin. ft.	\$	112.00	\$	29,120.00
5	TREE TUNNE	ELING	110	lin. ft.	\$	190.00	\$	20,900.00
6	SEWER TELF	EVISING FOR FINAL II	NSPECTION					
· ·	02112111121		970		\$	2.50	\$	2,425.00
7	SEWER TEST	TING FOR FINAL INSF	PECTION					
			970	lin. ft.	\$	2.50	\$	2,425.00
8	CULVERT RE	MOVAL AND REPLAC	CEMENT					
	12-inch		150	lin. ft.	\$	80.00	\$	12,000.00
9	RESTORATIO	ON OF LAWNS						
	AND PARKW	AYS:						
	Topsoil a	and sod	1,200 s	sq.yd.	\$	14.00	\$	16,800.00
10	RESTORATIO	ON OF STREETS:						
		ete Street	65 s	sq.yd.	\$	63.00	\$	4,095.00
11	DEMOVE AND	D REPLACE DRIVEW	۸ <i>۷</i> و					
11	Bituminou			sq.yd.	\$	48.00	\$	6,720.00
	Concrete	.~		sq.yd.	\$	80.00	\$	1,920.00
12	TREE REMOV	VAL AND TRIMMING:			Lun	np Sum	\$	8,554.00
12	TILL ILIVIO	VALAND INIMINING.			Luli	iip Guili	Ψ	0,004.00
13	EROSION CO	NTROL			Lun	np Sum	\$	987.00

Table 4.2-14

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Janes-College (South)

Engineer's Opinion of Probable Construction Cost

		Approximate	Unit	
No.	Pay Item	Quantity	Price	Amount
14	TRAFFIC CONTROL		Lump Sum	\$ 3,290.00
	SUBTOTAL			\$ 217,524.00
SERVIC	E LATERALS			
1	BUILDING SERVICE LINES Near side	105 lin. ft.	\$ 49.00	\$ 5,145.00
	Far side	312 lin. ft.	\$ 49.00	\$ 15,288.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	6 each 7 each	\$ 548.00 \$ 675.00	\$ 3,288.00 \$ 4,725.00
3	BUILDING SERVICE PLUG	13 each	\$ 206.00	\$ 2,678.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and seed	370 sq.yd.	\$ 14.00	\$ 5,180.00
5	RESTORATION OF STREETS Bit. Concrete Street	: 102 sq.yd.	\$ 62.00	\$ 6,324.00
6	TRENCH BACKFILL: 0-8 feet deep	160 lin. ft.	\$ 61.00	\$ 9,760.00
	SUBTOTAL			\$ 52,388.00
	TOTAL ESTIMATE OF CO	NSTRUCTION COST		\$ 269,900.00
		Contingencies (20%) Engineering (20%) Legal / Admin (6%)		\$54,000.00 \$54,000.00 \$22,700.00
	TOTAL OPINION OF PRO	BABLE COST		\$ 400,600.00
			Cost per lo	st \$30,820.00

Table 4.2-15

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Chase-Hobson-Belmont (South)

Preliminary Design Layout

	Manhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
Chase A	<u>Avenue</u>					
	H-8-42 existing	734.6	726.10	400	4.050/	
	UB-50	740.0	731.35	420	1.25%	8.6
	UB-49	752.0	739.35	400	2.00%	12.7
Hobson	ı Road					
	H-8-44 existing	738.5	729.57			
	UB-54	738.0	730.05	80	0.60%	7.9
	UB-53	747.0	734.43	350	1.25%	12.6
Belmon	t Road					
Bollifion		752.0	720.42	400	1.25%	10.0
	UB-45	752.0	739.43			12.6

Table 4.2-16

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Chase-Hobson-Belmont (South)

Engineer's Opinion of Probable Construction Cost

			Approximat	e		Unit		
No.	Pay Item		Quantity			Price		Amount
MAINLIN	IE SEWER							
1	SANITARY SE	WER (OPEN CUT)						
•	8-inch	0-8 feet deep	450	lin. ft.	\$	74.00	\$	33,300.00
		8-12 feet deep	1,200	lin. ft.	\$	86.00	\$	103,200.00
_								
2	•		4		Ф	4 000 00	Ф	4 000 00
	48-inch	0-8 feet deep	1 4	each each	<u>\$</u> \$	4,800.00	<u>\$</u> \$	4,800.00
		8-12 feet deep	4	each	Φ	6,300.00	Φ	25,200.00
3	CONNECTION	N TO EXISTING MA	NHOLE					
	8-inch		1	each	\$	6,100.00	\$	6,100.00
4	TRENCH BAC		450	I! ££	Φ	00.00	Ф	44 400 00
	8-inch	0-8 feet deep 8-12 feet deep		lin. ft. lin. ft.	<u>\$</u> \$	92.00	<u>\$</u> \$	41,400.00
		o-12 leet deep	002	IIII. IL.	Φ	112.00	Φ	67,424.00
5	TREE TUNNE	LING	0	lin. ft.	\$	190.00	\$	0.00
0	OFWED TELE	VICINIC FOR FINIAL	INICOECTION	i				
6	SEVVER TELE	VISING FOR FINAL	1,650		\$	2.50	\$	4,125.00
			1,000		Ψ	2.00	Ψ	4,120.00
7	SEWER TEST	ING FOR FINAL IN	SPECTION					
			1,650	lin. ft.	\$	2.50	\$	4,125.00
8	CIII VEDT DE	MOVAL AND REPL	ACEMENT					
0	12-inch	WOVAL AND REPL		lin. ft.	\$	80.00	\$	4,800.00
	12 111011		00		<u> </u>	00.00	Ψ	1,000.00
9	RESTORATIO	N OF LAWNS						
	AND PARKWA							
	Topsoil a	nd seed	780	sq.yd.	\$	14.00	\$	10,920.00
10	RESTORATIO	N OF STREETS:						
10	Bit. Concre		711	sq.yd.	\$	63.00	\$	44,793.00
	2 33			0 q. y w.	<u> </u>		Ψ	,
11	REMOVE AND	REPLACE DRIVE						
	Bituminou	S		sq.yd.	\$	48.00	\$	2,400.00
	Concrete		0	sq.yd.	\$	80.00	\$	0.00
12	TREE REMOV	/AL AND TRIMMING	3 :		Lun	np Sum	\$	658.00
	ED00:01:00	NITOOI				0	Φ.	
13	EROSION CO	NIKOL			Lun	np Sum	\$	987.00

Table 4.2-16

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Chase-Hobson-Belmont (South)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity	Unit Price	Amount
14	TRAFFIC CONTROL	·	Lump Sum	\$ 19,740.00
	SUBTOTAL			\$ 373,972.00
SERVICI	E LATERALS			
1	BUILDING SERVICE LINES Near side Far side	198 lin. ft. 312 lin. ft.	\$ 49.00 \$ 49.00	\$ 9,702.00 \$ 15,288.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	9 each 6 each	\$ 548.00 \$ 675.00	\$ 4,932.00 \$ 4,050.00
3	BUILDING SERVICE PLUG	15 each	\$ 206.00	\$ 3,090.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and seed	122 sq.yd.	\$ 14.00	\$ 1,708.00
5	RESTORATION OF STREETS Bit. Concrete Street	5: 140 sq.yd.	\$ 62.00	\$ 8,680.00
6	TRENCH BACKFILL 0-8 feet deep	180 lin. ft.	\$ 61.00	\$ 10,980.00
	SUBTOTAL			\$ 58,430.00
	TOTAL ESTIMATE OF CO	NSTRUCTION COST		\$ 432,400.00
		Contingencies (20%) Engineering (20%) Legal / Admin (6%)		\$86,500.00 \$86,500.00 \$36,300.00
	TOTAL OPINION OF PRO	BABLE COST		\$ 641,700.00
			Cost per lo	ot \$ 42,780.00

Table 4.2-17

Downers Grove Sanitary District
Possible Special Assessment for Sanitary Sewers

Downers Grove Park Sub-Area

Cost Summary

Sub-Basin:	Near Services	Far Services	Cost		Cost per lot	
Katrine-Maple (North)	17	8	\$ 856,700.00	\$	34,270.00	
Inverness-Lomond-Elinor-Maple (North)	59	13	\$ 2,722,200.00	\$	37,810.00	
Inverness-Belmont (North)	6	0	\$ 178,000.00	\$	29,670.00	
Katrine-College (South)	13	14	\$ 611,600.00	\$	22,650.00	
Lomond-College (South)	14	15	\$ 887,600.00	\$	30,610.00	
Elinor-College (South)	5	4	\$ 376,300.00	\$	41,810.00	
Janes-College (South)	6	7	\$ 400,600.00	\$	30,820.00	
Chase-Hobson-Belmont (South)	9	6	\$ 641,700.00	\$	42,780.00	
TOTALS	129	67	\$ 6,674,700.00	\$	34,050.00	

4.3 Downers Grove Gardens

Downers Grove Gardens is a large sub-area within the District's FPA that is currently unsewered. As shown on Exhibit 4.3, the approximate limits of this sub-area are Maple Avenue to the north, Janes Avenue and Belmont Road to the west, 63rd Street to the south, and Downers Drive to the east. The proposed service area includes approximately 673 lots that are mostly developed as single-family residences with septic systems. The purpose of this analysis is to establish the most cost-effective sanitary sewer plan for serving properties within Downers Grove Gardens.

Several factors were considered when determining the most cost-effective sewer layout. These factors include topography, major road crossings, wetlands, tree protection, water main and existing utility location, and existing downstream sewer capacity. The Downers Grove Gardens sub-area has two major drainage divides running from west to east: 61st Street from Janes east to Belmont and just south of 59th Street from Belmont east to Downers Drive. Serving these properties by following the ground contours will avoid deep cuts through the higher elevations along drainage divide. The study area can be divided into four smaller service areas. Properties north of 61st Street and west of Belmont Road will be served by the existing sanitary sewer on Hobson Road (at Janes, Leonard, Chase and Puffer). Properties south of 61st Street and west of Belmont Road will be served by existing sewers on 63rd Street (at Janes, Puffer, and Belmont). Residences north of 59th Street and east of Belmont Road will be served by the existing sewer on Maple Avenue (between Woodward and Sherman). Residences south of 59th Street and east of Belmont Road will be served by existing sewers on Boundary Road (at Lee and Downers) and 63rd Street (at Belmont, Pershing, Stonewall, and Springside)

In addition to following the ground contours, the low-cost sewer layout also needs to consider avoiding major road crossings. The major road crossings that would significantly increase construction cost in this sub-area are Belmont Road and Maple Avenue. Thus, alternatives were considered to minimize crossing of these routes with both the mainline sewer and building services.

The sewer layout also considered the several wetlands that are located within the sub-area at the following locations: Woodward and Blanchard (vacated right-of-way), and Sherman and Jefferson (vacated right-of-way). Avoiding these wetlands will minimize the time and expense involved in the permitting process for construction in wetlands as well as reduce the costs associated with restoring these areas.

The Village of Downers Grove owns and operates water mains on the streets within the sub-area. The water main design drawings were reviewed and field investigations of the sewer routes were completed to reduce the potential for utility conflicts and to ensure that the required ten feet of separation from water mains can be achieved.

The final component of this analysis was to evaluate the downstream capacity of the existing sewers. Our analysis determined that all of the existing sewers have adequate capacity to receive the additional flow from the Downers Grove Gardens sub-area.

For this analysis, the subject area was subdivided into smaller, more manageable sub-basins. The sub-basins were created using topography and projected sewer connection points.

The following are the proposed sub-basins:

Sub-basin	No. of Services	Layout	Cost Estimate
Janes-Leonard-Chase-Puffer (North)	68	Table 4.3-1	Table 4.3-2
Janes-Leonard-Chase-Puffer (South)	129	Table 4.3-3	Table 4.3-4
Belmont Road (Southwest)	25	Table 4.3-5	Table 4.3-6
Belmont Road (East)	52	Table 4.3-7	Table 4.3-8
Pershing Avenue (South)	64	Table 4.3-9	Table 4.3-10
Woodward and 63 rd Street	18	Table 4.3-11	Table 4.3-12
Lee and Boundary (South)	39	Table 4.3-13	Table 4.3-14
Springside Avenue (South)	14	Table 4.3-15	Table 4.3-16
Springside-Jefferson-Downers (North)	52	Table 4.3-17	Table 4.3-18
Pershing-Woodward-Maple (North)	104	Table 4.3-19	Table 4.3-20
Sherman Avenue (North)	54	Table 4.3-21	Table 4.3-22
Lee Avenue (North)	54	Table 4.3-23	Table 4.3-24

Table 4.3-25 is a summary table of opinions of probable cost. A map of the proposed sewer plan is included in Exhibit 4.3.

The Janes-Leonard-Chase-Puffer (North) sub-basin sewer plan follows the east-west drainage divide near 61st Street from Janes Avenue to Belmont Road. Serving these properties north to the existing sewer along Hobson is the most cost effective because it prevents a deep cut through the ridge line at 61st. The sewer alignment on each street should be on the east side of the rightof-way because of the existing water main is on the west side of the right-of-way. In October 2019, Baxter & Woodman performed a special assessment evaluation on the area south of Hobson Road, along Puffer Street. The special assessment included a cost estimate and evaluation for a 900-foot sewer extension from existing manhole H8-046 to proposed manhole UC-7 but construction had not started as of March 2020. The cost per lot in the Special Assessment was nearly double the cost per lot in this plan. This cost difference is due to the study area on Puffer Street containing a relatively low number of lots and larger-sized lots which results in a higher cost per unsewered lot based on the length of sewer required to be installed. For comparison, the other sub-basin streets west of this study area have a higher density of lots and a resulting lower cost per unsewered lot. Table 4.3-1 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.3-2 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$1,280,800, including contingency, engineering, and legal/administrative costs.

The Janes-Leonard-Chase-Puffer (South) sub-basin sewer plan also follows the east-west drainage divide near 61st Street from Janes Avenue to Belmont Road. This sub-basin will also include all unsewered properties fronting 63rd Street west of Belmont. The properties on Janes, Leonard, and Chase should connect to the west at the existing manhole on 63rd Street at Janes, since the existing manhole east of Chase is too shallow. The properties on Puffer should connect to the existing manhole at Puffer and 63rd Street. Similar to the sub-basin to the north, sewer alignment on each street should be on the east side of the right-of-way because of the existing water mains on the west side of the right-of-way. Table 4.3-3 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.3-4 includes a breakdown of the

unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$2,411,300, including contingency, engineering, and legal/administrative costs.

The Belmont Road (Southwest) sub-basin sewer plan includes the unsewered properties on the west side of Belmont and south of Hobson Road. These properties will connect to the existing sewer on the west side of Belmont, north of 63^{rd} Street. The sewer alignment will require an easement adjacent to the west right-of-way line of Belmont, similar to the existing sewer to the south. Installing a parallel sewer on the both sides of Belmont was determined to be more cost-effective than installing services across Belmont. Table 4.3-5 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.3-6 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$619,900, including contingency, engineering, easements, and legal/administrative costs.

The Belmont Road (East) sub-basin sewer plan follows the existing topography, which consists of a low area between the ridge lines along 61st Street west of Belmont and along 59th Street east of Belmont. The ground elevation along Belmont decreases from a high point near College Road south to the connection point at an existing sewer manhole at the northeast corner of Belmont and 63rd Street. This sub-basin will include all unsewered properties on the east side of Belmont, as well as several properties on 59th Street, east of Belmont. Similar to the west side of Belmont Road, the sewer alignment will require an easement adjacent to the east right-of-way line and the parallel sewer was determined to be more cost-effective than installing services across Belmont. Table 4.3-7 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.3-8 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$1,215,100, including contingency, engineering, easements, and legal/administrative costs.

The Pershing Avenue (South) sub-basin sewer plan follows the drainage divide just south of 59th Street. This sub-basin will include unsewered properties along Pershing Avenue. Connecting to the manhole at 63rd Street and Pershing Avenue is the most cost effective because it prevents a deep cut through the ridge line. The sewer alignment on Pershing should be on the east side of the right-of-way because of the existing water main is on the west side of the right-of-way. Table 4.3-9 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.3-10 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$1,163,700, including contingency, engineering, and legal/administrative costs.

The Woodward and 63rd Street sub-basin sewer plan also follows the existing drainage divide just south of 59th Street. This sub-basin includes unsewered properties along Woodward as well as properties on the north side of 63rd Street between Woodward Avenue and Pershing Road. For the properties along Woodward, connecting to the existing manhole at 6006 Woodward Avenue is the most feasible alternative. For the properties on the north side of 63rd Street, connecting to the existing manhole at Woodward and 63rd Street is the most feasible alternative because the manhole to the west of Woodward on 63rd is too shallow. Table 4.3-11 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.3-12 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$320,300, including contingency, engineering, easements and legal/administrative costs.

The Lee and Boundary (South) sub-basin sewer plan also follows the existing drainage divide south of 59th Street. Connecting to the existing manhole at Boundary Road eliminates a deep cut through the ridge line south of 59th and provides adequate depth with the shortest length of pipe. The sewer should be placed in the east right-of-way on Lee and in the southeast right-of-way on Boundary to avoid existing utilities. Table 4.3-13 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.3-14 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$731,400, including contingency, engineering, and legal/administrative costs.

The Springside Avenue (South) sub-basin sewer plan is to follow the existing topography and connect to the existing manhole to the south at 63rd Street. The only other potential connection point would be the existing manhole to the north, but it is too shallow to be a feasible alternative. Table 4.3-15 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.3-16 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$308,500, including contingency, engineering, and legal/administrative costs.

The Springside-Jefferson-Downers (North) sub-basin sewer plan follows the existing topography which consists of a high point to the west along 59th Street and a low lying area near Springside and Jefferson. There are several potential connection points, but the existing manhole at Boundary and Downers Drive is the only feasible alternative to serve Downers, Jefferson, and Springside north of 59th because the two existing manholes on Springside, north of Jefferson and south of 59th, are too shallow. The lots on Springside south of 59th Street are best served by the existing manhole 320 feet south of 59th Street. The cost per lot for this sub-basin is the most expensive in the Downers Grove Gardens sub-area because of the amount of granular backfill and pavement restoration that is required to avoid utilities. Table 4.3-17 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.3-18 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$1,444,900, including contingency, engineering, and legal/administrative costs.

The Pershing-Woodward-Maple Avenue (North) sub-basin sewer plan follows the existing topography which falls from the high point just south of 59th and east of Woodward to the lowest elevation, along Woodward north of Blanchard. This is the recommended alternative because it has the shortest sewer length while preventing deep cuts through the ridge line and provides adequate cover at the low elevation. This sub-basin includes all unsewered properties fronting Maple on the south side of the road. The recommended alternative to install one main sewer across Maple Avenue is more cost-effective than installing multiple services across Maple to the existing sewer on the north side. The sewer alignment along Maple will require easements adjacent to the right-of-way line. The connection point for sewer along the south side of Maple is the existing manhole at the intersection of Maple Avenue and Woodward Avenue. Sewer has been extended west to this manhole and south along Woodward Avenue to the manhole south of the intersection of Woodward Avenue and Blanchard Street right-of-way. The connection point for sewer along the north side of Maple is the existing manhole at 5516 Maple Avenue. Table 4.3-19 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.3-20 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$2,775,000, including contingency, engineering, and easements, legal/administrative costs.

The Sherman Avenue (North) sub-basin sewer plan follows the drainage divide just south of 59th Street. This sub-basin will include unsewered properties along Sherman Avenue. Connecting to the existing manhole just south of Maple is the recommended alternative because it has the shortest sewer length while preventing deep cuts through the ridge line and provides adequate cover at the low elevation at Jefferson. The sewer alignment on Sherman should be on the east side of the right-of-way because of the existing water main is on the west side of the right-of-way. In 2017, 188 feet of sanitary sewer was installed including the 5602 Sherman Ave. service connection for a construction cost of \$22,070. Table 4.3-21 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.3-22 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$1,234,200, including contingency, engineering, and legal/administrative costs.

The Lee Avenue (North) sub-basin sewer plan follows the topography which falls to the north from the drainage divide just south of 59th Street. Serving the properties along the south side of Maple with a parallel sewer and connecting to the existing manhole at Lee and Maple requires an easement on the south side of Maple but is more cost-effective than jacking sewer services under Maple. The sewer on Lee Avenue should be placed in the west parkway, near the edge of pavement, to avoid the Village water main near the west right-of-way line and the DuPage Water Commission main in the east parkway. The cost per lot for this sub-basin is the fourth most expensive in the Downers Grove Gardens sub-area because of the granular backfill and pavement restoration that is required along the north end of Lee. Table 4.3-23 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.3-24 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$1,432,500, including contingency, engineering, easements, and legal/administrative costs.

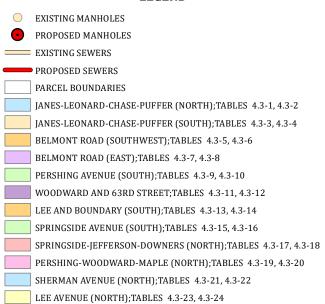
DOWNERS GROVE SANITARY DISTRICT UNSEWERED AREA PLAN

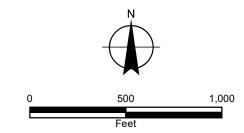
EXHIBIT 4.3

DOWNERS GROVE GARDENS POSSIBLE SEWER ALIGNMENT

MARCH 2020

LEGEND







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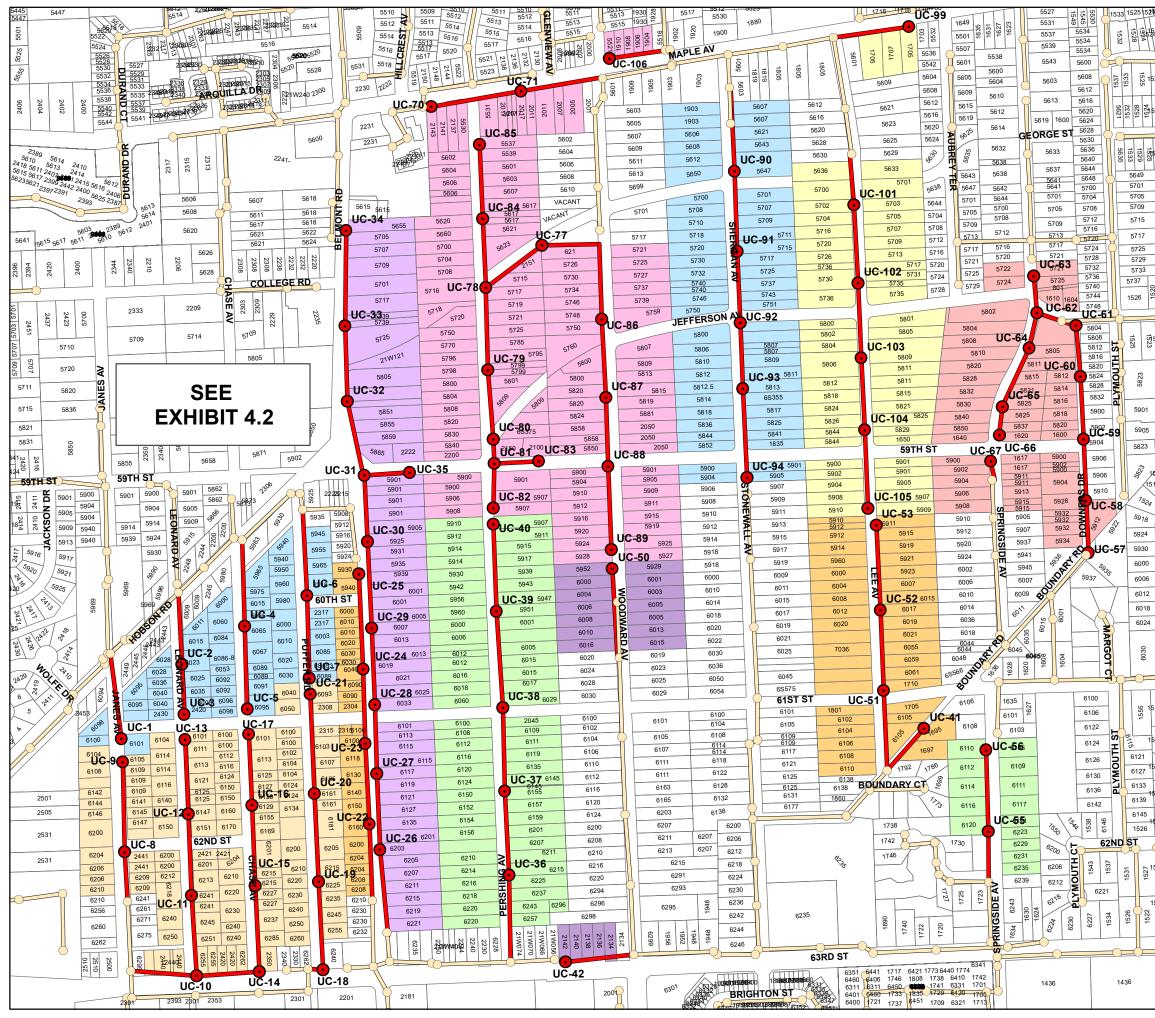


Table 4.3-1

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Janes-Leonard-Chase-Puffer (North)

Preliminary Design Layout

	Manhole Number	Rim	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
Janes Ave	<u>nue</u>					
	H-8-10-1 existing	731.4	715.01	420	1.20%	
	UC-1	736.0	725.05	420	1.20 /6	11.0
Leonard Av	<u>venue</u>					
	H-8-33 existing	731.7	719.00	400	2.20%	
	UC-2	736.0	727.80			8.2
	UC-3	742.0	733.52	220	2.60%	8.5
Chase Ave	nue					
	H-8-43 existing	733.5	726.62	410	3.00%	
	UC-4	755.0	738.92	_		16.1
	UC-5	754.0	743.02	410	1.00%	11.0
Puffer Roa	<u>d</u>					
	H-8-46 existing	741.3	731.65	450	0.400/	
	UC-6	741.5	733.45	450	0.40%	8.1
	UC-7	752.0	741.45	400	2.00%	10.6

52

Table 4.3-2

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Janes-Leonard-Chase-Puffer (North)

Engineer's Opinion of Probable Construction Cost

			Approxin	nate		Unit		
No.	Pay Item		Quanti	ity		Price		Amount
MAINLII	NE SEWER							
1	SANITARY SEWI	ER (OPEN CUT)						
	8-inch	0-8 feet deep	500	lin. ft.	\$	74.00	\$	37,000.00
		8-12 feet deep	2,210	lin. ft.	\$	86.00	\$	190,060.00
2	SANITARY MANI	JOI E8						
۷	48-inch	0-8 feet deep	2	each	\$	4,800.00	\$	9,600.00
		8-12 feet deep	5	each	\$	6,300.00	<u>\$</u> \$	31,500.00
								_
3	8-inch	O EXISTING MANHO	OLE 4	ooob	¢	6 100 00	¢	24 400 00
	o-inch		4	each	\$	6,100.00	\$	24,400.00
4	TRENCH BACKF	ILL						
	8-inch	0-8 feet deep	100	lin. ft.	<u>\$</u> \$	92.00	<u>\$</u>	9,200.00
		8-12 feet deep	822	lin. ft.	\$	112.00	<u>\$</u>	92,064.00
5	TREE TUNNELIN	IG	80	lin. ft.	\$	190.00	\$	15,200.00
6	SEWED TELEVIS	SING FOR FINAL INS	SDECTION	NI.				
U	SEVVEN TELEVIO	SING FOR FINAL IN		lin. ft.	\$	2.50	\$	6,775.00
			, -		<u>, </u>		-	-,
7	SEWER TESTING	G FOR FINAL INSPE			_			
			2,710	lin. ft.	\$	2.50	\$	6,775.00
8	CULVERT REMO	VAL AND REPLACE	MENT					
· ·	12-inch		357	lin. ft.	\$	80.00	\$	28,560.00
9	RESTORATION (
	Topsoil and		5.142	sq.yd.	\$	14.00	\$	71,988.00
	. ороси сина		٥,	0 4.7 0.1	<u> </u>		<u> </u>	1 1,000.00
10	RESTORATION (
	Bit. Concrete	Street	160	sq.yd.	\$	63.00	\$	10,080.00
11	REMOVE AND R	EPLACE DRIVEWAY	/S					
• •	Bituminous			sq.yd.	\$	48.00	\$	23,568.00
	Concrete		67	sq.yd.	\$	80.00	\$ \$	5,360.00
12	TREE REMOVAL	. AND TRIMMING			Lum	p Sum	\$	329.00

Table 4.3-2

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Janes-Leonard-Chase-Puffer (North)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxim Quantity			Unit Price		Amount
13	EROSION CONTROL			Lump	Sum	\$	1,316.00
14	TRAFFIC CONTROL			Lump	Sum	\$	7,896.00
						\$	571,671.00
SERVIC	CE LATERALS						
1	BUILDING SERVICE LINES Near side Far side		lin. ft. lin. ft.	\$ \$	49.00 49.00	\$ \$	36,260.00 91,140.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	37 31	each each	\$ \$	548.00 675.00	\$ \$	20,276.00 20,925.00
3	BUILDING SERVICE PLUGS:	68	each	\$	206.00	\$	14,008.00
4	RESTORATION OF LAWNS AND PARKWAYS Topsoil and sod	2,700	sq.yd.	\$	14.00	\$	37,800.00
5	RESTORATION OF STREETS Bit. Concrete Street	413	sq.yd.	\$	62.00	\$	25,606.00
6	TRENCH BACKFILL 0-8 feet deep	744	lin. ft.	\$	61.00	\$	45,384.00
	SUBTOTAL					\$	291,399.00
	TOTAL ESTIMATE OF CONS	STRUCTION CO	OST			\$	863,100.00
		Contingencie Engineering Legal / Admir	(20	0%) 0%) 6%)			\$172,600.00 \$172,600.00 \$72,500.00
	TOTAL OPINION OF PROBA	BLE COST				\$	1,280,800.00
					Cost pe	r lot	\$18,840.00

Table 4.3-3

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Janes-Leonard-Chase-Puffer (South)

Preliminary Design Layout

	Manhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	<u>Slope</u>	Manhole <u>Depth</u>
Janes Ave	<u>enue</u>					
	Existing	720.0	708.00	300	1.20%	
	UC-8	730.0	716.60			13.4
	UC-9	738.0	726.40	400	1.20%	11.6
63rd Stree	<u>et</u>					
	Existing	713.6	702.70	050	0.400/	
	UC-10	719.0	709.10	350	0.40%	9.9
	UC-14	724.5	715.46	340	0.40%	9.0
Leonard A	<u>Avenue</u>					
				400	3.00%	
	UC-11	730.0	721.10	400	2.00%	8.9
	UC-12	740.0	729.10	400	2.00%	10.9
	UC-13	746.0	737.10			8.9
Chase Av	<u>enue</u>					
	UC-15	730.0	719.06	450	0.80%	10.9
	UC-16	734.0	725.81	450	1.50%	8.2
	UC-17	750.0	739.31	450	3.00%	10.7
Puffer Ro	<u>ad</u>					
	H-1-98 (existing)	730.0	719.79			
	UC-18	730.0	721.29	60	2.50%	8.7
	UC-19	732.0	723.99	450	0.60%	8.0
	UC-20	736.0	727.59	450	0.80%	8.4
	UC-21	750.0	738.84	450	2.50%	11.2
		-				

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Table 4.3-4

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Janes-Leonard-Chase-Puffer (South)

Engineer's Opinion of Probable Construction Cost

			Approximate Unit					
No.	Pay Item		Quant	ity		Price		Amount
MAINLII	NE SEWER							
1	SANITARY SEWE	R (OPEN CUT)						
	8-inch	0-8 feet deep	900	lin. ft.	\$	74.00	\$	66,600.00
		8-12 feet deep	4,450	lin. ft.	\$	86.00	\$	382,700.00
2	SANITARY MANH	OLES						
۷	48-inch	0-8 feet deep	2	each	\$	4,800.00	\$	9,600.00
	10 111011	8-12 feet deep	12	each	<u>\$</u> \$	6,300.00	<u>\$</u> \$	75,600.00
		·				<u> </u>		,
3		EXISTING MANH						
	8-inch		3	each	\$	6,100.00	\$	18,300.00
4	TRENCH BACKFI	11						
·	8-inch	0-8 feet deep	50	lin. ft.	\$	92.00	\$	4,600.00
		8-12 feet deep	1,353	lin. ft.	\$ \$	112.00	\$ \$	151,536.00
_	TOEE TUNNEL IN		0.40	II. 6.	•	400.00	•	45.000.00
5	TREE TUNNELIN	G	240	lin. ft.	\$	190.00	\$	45,600.00
6	SEWER TELEVIS	ING FOR FINAL IN	SPECTIO	N				
· ·			5,350	lin. ft.	\$	2.50	\$	13,375.00
7	SEWER TESTING	FOR FINAL INSP		1: £ £	Φ.	0.50	ф	40.075.00
			5,350	lin. ft.	\$	2.50	\$	13,375.00
8	CULVERT REMO	VAL AND REPLAC	EMENT					
	12-inch		856	lin. ft.	\$	80.00	\$	68,480.00
9	RESTORATION C AND PARKWAYS							
	Topsoil and		9 789	sq.yd.	\$	14.00	\$	137,046.00
	r opcon and		0,100	04.74.	Ψ	1 1100	Ψ	107,010.00
10	RESTORATION C							
	Bit. Concrete	Street	292	sq.yd.	<u>\$</u>	63.00	\$	18,396.00
11	REMOVE AND RE	PLACE DRIVEWA	٧٩					
	Bituminous	I LAOL DIVIVEVA		sq.yd.	\$	48.00	\$	48,576.00
	Concrete			sq.yd.	\$	80.00	\$ \$	6,160.00
_								
12	TREE REMOVAL	AND TRIMMING			Lun	np Sum	\$	1,118.60
13	EROSION CONTR	ROL			Lun	np Sum	\$	1,645.00

Table 4.3-4

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Janes-Leonard-Chase-Puffer (South)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity)		Unit Price		Amount
14	TRAFFIC CONTROL			Lump Sum		\$	9,870.00
	SUBTOTAL					\$	1,072,577.60
SERVIC	CE LATERALS						
1	BUILDING SERVICE LINES Near side Far side	1,440 lin. 3,420 lin.		\$ \$	49.00 49.00	<u>\$</u>	70,560.00 167,580.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side		ich ich	\$ \$	548.00 675.00	<u>\$</u>	39,456.00 38,475.00
3	BUILDING SERVICE PLUG	129 ea	ich	\$	206.00	\$	26,574.00
4	RESTORATION OF LAWNS AND PARKWAYS Topsoil and sod	3,575 sq. _:	yd.	\$	14.00	\$	50,050.00
5	RESTORATION OF STREETS Bit. Concrete Street	1,115 sq.	yd.	\$	62.00	\$	69,130.00
6	TRENCH BACKFILL 0-8 feet deep	1,482 lin.	ft.	\$	61.00	\$	90,402.00
	SUBTOTAL					\$	552,227.00
	TOTAL ESTIMATE OF CONS	STRUCTION COS	ST			\$	1,624,800.00
		Contingencies Engineering Legal / Admin	(20° (20° (6°	%)			\$325,000.00 \$325,000.00 \$136,500.00
	TOTAL OPINION OF PROBA	BLE COST				\$	2,411,300.00
					Cost no	r lot	\$18 600 00

Cost per lot \$18,690.00

Table 4.3-5

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Belmont-Southwest

Preliminary Design Layout

	Manhole Number	Rim	<u>Invert</u>	Length (ft)	<u>Slope</u>	Manhole <u>Depth</u>
Belmont R	oad					
	H-1-94 (existing)	738.8	728.38	400	4.000/	
	UC-22	742.0	732.38	400	1.00%	9.6
	UC-23	744.0	735.98	400	0.90%	8.0
	UC-24	750.0	740.03	450	0.90%	10.0
	UC-25	750.0	741.91	470	0.40%	8.1

Table 4.3-6

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Belmont-Southwest

Engineer's Opinion of Probable Construction Cost

			Approximate Unit					
No.	Pay Item		Quant	ity		Price		Amount
MAINLI	NE SEWER							
1		PEN CUT) 0-8 feet deep 12 feet deep	500 1,220	lin. ft. lin. ft.	\$ \$	74.00 86.00	\$	37,000.00 104,920.00
2	48-inch (S 0-8 feet deep 12 feet deep	2 2	each each	\$ \$	4,800.00 6,300.00	\$ \$	9,600.00 12,600.00
3	CONNECTION TO EXI 8-inch	STING MANH	OLE 1	each	\$	6,100.00	\$	6,100.00
4		0-8 feet deep 12 feet deep	264 315	lin. ft. lin. ft.	\$ \$	92.00 112.00	\$	24,288.00 35,280.00
5	TREE TUNNELING		120	lin. ft.	\$	190.00	\$	22,800.00
6	SEWER TELEVISING	FOR FINAL IN	SPECTION 1,720		\$	2.50	\$	4,300.00
7	SEWER TESTING FOI	R FINAL INSPE	ECTION 1,720	lin. ft.	\$	2.50	\$	4,300.00
8	RESTORATION OF LA AND PARKWAYS: Topsoil and sod	WNS	3,547	sq.yd.	\$	14.00	\$	49,658.00
9	RESTORATION OF ST Bit. Concrete Street		64	sq.yd.	\$	63.00	\$	4,032.00
10	REMOVE AND REPLA Bituminous Concrete	CE DRIVEWA	269	sq.yd. sq.yd.	\$ \$	48.00 80.00	\$ \$	12,912.00 4,800.00
12	TREE REMOVAL AND	TRIMMING			Lum	o Sum	\$	1,316.00
13	EROSION CONTROL				Lum	o Sum	\$	658.00

Table 4.3-6

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Belmont-Southwest

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxin Quanti				Amount	
	TRAFFIC CONTROL		<u>, </u>	Lum	Lump Sum		8,554.00
	SUBTOTAL				P	<u>\$</u> \$	343,118.00
050/40						Ψ	010,110.00
SERVIC	CE LATERALS						
1	BUILDING SERVICE LINES	050	P . 6	•	40.00	Φ.	40.050.00
	Near side Far side	250 0	lin. ft. lin. ft.	<u>\$</u> \$	49.00 49.00	<u>\$</u> \$	12,250.00
				<u>+</u>		<u> </u>	
2	BUILDING SERVICE BRANCH FITTINGS						
	Near Side	25	each	\$	548.00	<u>\$</u> \$	13,700.00
	Far side	0	each	\$	675.00	\$	0.00
3	BUILDING SERVICE PLUG						
	Near side	25	each	\$	206.00	\$	5,150.00
4	RESTORATION OF LAWNS						
	AND PARKWAYS:	0		c	44.00	Ф	0.00
	Topsoil and sod	U	sq.yd.	\$	14.00	\$	0.00
5	RESTORATION OF STREETS			_		•	
	Bit. Concrete Street	0	sq.yd.	\$	62.00	\$	0.00
6	TRENCH BACKFILL						
	0-8 feet deep	0	lin. ft.	\$	61.00	\$	0.00
	SUBTOTAL					\$	31,100.00
	TOTAL ESTIMATE OF CONS	STRUCTION C	COST			\$	374,200.00
		Contingenci	ias (2	0%)			\$74,800.00
		Engineering		0%)			\$74,800.00
		Legal / Adm		6%)			\$31,400.00
		Easement A	Acquisitio	on			\$64,700.00
	TOTAL OPINION OF PROBA	ABLE COST				\$	619,900.00
					Cost pe	r lot	\$24,800.00

Table 4.3-7

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Belmont Road (East)

Preliminary Design Layout

	Manhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
Belmont Ro	<u>pad</u>					
	H-1-97 (existing)	739.5	724.62			
	UC-26	742.0	732.62	400	2.00%	9.4
				400	0.40%	
	UC-27	746.0	734.22	400	0.40%	11.8
	UC-28	748.0	735.82	400		12.2
	UC-29	748.0	737.42	400	0.40%	10.6
	UC-30	748.0	739.02	400	0.40%	9.0
				400	0.40%	
	UC-31	750.0	740.62	400	0.40%	9.4
	UC-32	750.0	742.22	400	2.50%	7.8
	UC-33	762.0	752.22			9.8
	UC-34	780.0	768.22	400	4.00%	11.8
59th Street						
<u> </u>				200	0.80%	
	UC-35	750.0	742.22			7.8

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Table 4.3-8

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Belmont Road (East)

Engineer's Opinion of Probable Construction Cost

			Approxin	nate	Unit			
No.	Pay Item		Quanti	ity		Price		Amount
MAINLI	NE SEWER							
1	SANITARY SEWE 8-inch	R (OPEN CUT) 0-8 feet deep 8-12 feet deep	1,000 2,800	lin. ft. lin. ft.	\$ \$	74.00 86.00	\$ \$	74,000.00 240,800.00
		o-12 leet deep	2,000	1111. 11.	Φ	00.00	Φ	240,000.00
2	SANITARY MANHO							
	48-inch	0-8 feet deep	2	each	\$	4,800.00	<u>\$</u> \$	9,600.00
		8-12 feet deep	8	each	\$	6,300.00	<u>\$</u>	50,400.00
3	CONNECTION TO	EXISTING MANHO	OLE					
	8-inch		1	each	\$	6,100.00	\$	6,100.00
4	TRENCH BACKFIL	ı						
4	8-inch	0-8 feet deep	313	lin. ft.	\$	92.00	\$	28,796.00
	0	8-12 feet deep	659	lin. ft.	<u>\$</u> \$	112.00	<u>\$</u> \$	73,808.00
_	TDEE TINKIEL 1916				_	400.00	_	
5	TREE TUNNELING	į.	280	lin. ft.	\$	190.00	\$	53,200.00
6	SEWER TELEVISI	NG FOR FINAL IN	SPECTION	N				
			3,800	lin. ft.	\$	2.50	\$	9,500.00
7	SEWER TESTING	EOD EINM INICHE	CTION					
,	SEWER TESTING	FOR FINAL INSPE	3,800	lin. ft.	\$	2.50	\$	9,500.00
			-,		<u>, </u>		-	
8	RESTORATION O	F LAWNS						
	AND PARKWAYS: Topsoil and s	end .	2 031	sq.yd.	\$	14.00	\$	28,434.00
	ropoon and c	,ou	2,001	oq.ya.	Ψ	14.00	Ψ	20,404.00
9	RESTORATION O				_		_	
	Bit. Concrete S	Street	69	sq.yd.	\$	63.00	<u>\$</u>	4,347.00
10	REMOVE AND RE	PLACE DRIVEWA	YS					
	Bituminous			sq.yd.	\$	48.00	<u>\$</u>	21,264.00
	Concrete		130	sq.yd.	\$	80.00	\$	10,400.00
11	TREE REMOVAL A	AND TRIMMING			Lum	p Sum	\$	13,160.00
12	EROSION CONTR	OL			Lum	p Sum	\$	658.00
_						•	-	

Table 4.3-8

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Belmont Road (East)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxir Quant			Unit Price		Amount
13	TRAFFIC CONTROL		-	Lump	o Sum	\$	19,740.00
	SUBTOTAL					\$	653,707.00
SERVIC	E LATERALS						
1	BUILDING SERVICE LINES Near side Far side	520 0	lin. ft. lin. ft.	<u>\$</u> \$	49.00 49.00	<u>\$</u>	25,480.00 0.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side	52	each	\$	548.00	<u>\$</u>	28,496.00
3	Far side BUILDING SERVICE PLUG Near side	0 52	each each	\$	206.00	\$	10,712.00
4	RESTORATION OF LAWNS AND PARKWAYS Topsoil and sod	0	sq.yd.	\$	14.00	\$	0.00
5	RESTORATION OF STREETS Bit. Concrete Street	0	sq.yd.	\$	62.00	\$	0.00
6	TRENCH BACKFILL 8-12 feet deep	0	lin. ft.	\$	82.00	\$	0.00
	SUBTOTAL					\$	64,688.00
	TOTAL ESTIMATE OF CONS	STRUCTION (COST			\$	718,400.00
		Contingenc Engineering Legal / Adm Easement A	g (2) nin (0%) 0%) 6%) on			\$143,700.00 \$143,700.00 \$60,300.00 \$149,000.00
	TOTAL OPINION OF PROBA	BLE COST				\$	1,215,100.00
					Cost per lo	ot	\$23,370.00

Table 4.3-9

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Pershing Avenue (South)

Preliminary Design Layout

	Manhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	<u>Slope</u>	Manhole <u>Depth</u>
Pershing A	<u>Avenue</u>					
	Existing	744.8	733.40			
	UC-36	750.0	737.90	450	1.00%	12.1
				450	0.50%	
	UC-37	750.0	740.15	450	0.50%	9.9
	UC-38	754.0	742.40			11.6
	UC-39	752.0	744.20	450	0.40%	7.8
	00-39	732.0	744.20	450	0.80%	7.0
	UC-40	762.0	747.80			14.2

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Table 4.3-10

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Pershing Avenue (South)

Engineer's Opinion of Probable Construction Cost

No.	Approximate Unit . Pay Item Quantity Price						Amount	
No.	Pay Item		Quanu	ιy		Price		Amount
MAINLI	NE SEWER							
1		PEN CUT) 8 feet deep 2 feet deep	400 1,850	lin. ft. lin. ft.	\$ \$	74.00 86.00	\$	29,600.00 159,100.00
2	·	8 feet deep	1	each	¢	4,800.00	Ф	4,800.00
		2 feet deep	4	each	\$ \$	6,300.00	<u>\$</u> \$	25,200.00
3	CONNECTION TO EXIS 8-inch	TING MANH	OLE 1	each	\$	6,100.00	\$	6,100.00
4		8 feet deep 2 feet deep	130 1,201	lin. ft. lin. ft.	\$ \$	92.00 112.00	\$ \$	11,960.00 134,512.00
5	TREE TUNNELING		70	lin. ft.	\$	190.00	\$	13,300.00
6	SEWER TELEVISING F	OR FINAL IN		N lin. ft.	\$	2.50	\$	5,625.00
7	SEWER TESTING FOR	FINAL INSPE	·	lin. ft.	\$	2.50	\$	5,625.00
8	CULVERT REMOVAL A 15-inch	ND REPLACE	EMENT 255	lin. ft.	\$	102.00	\$	26,010.00
9	RESTORATION OF LAV AND PARKWAYS: Topsoil and sod	VNS	2,616	sq.yd.	\$	14.00	\$	36,624.00
10	RESTORATION OF STF Bit. Concrete Street		756	sq.yd.	\$	63.00	\$	47,628.00
11	REMOVE AND REPLAC Bituminous Concrete	E DRIVEWA	263	sq.yd. sq.yd.	\$	48.00 80.00	\$	12,624.00 6,400.00
12	REMOVE AND REPLAC 4' Concrete	E SIDEWALI	50	sq.ft.	\$	13.00	\$	650.00

Table 4.3-10

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Pershing Avenue (South)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity		Jnit rice		Amount
13	TREE REMOVAL AND TRIMMING		Lump Su	ım	\$	3,290.00
14	EROSION CONTROL		Lump Su	ım	\$	658.00
15	TRAFFIC CONTROL		Lump Su	ım	\$	3,948.00
	SUBTOTAL				\$	533,654.00
SERVIC	CE LATERALS					
1	BUILDING SERVICE LINES Near side Far side	768 lin. ft. 1,344 lin. ft.	\$ \$	49.00 49.00	\$ \$	37,632.00 65,856.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	32 each 32 each		548.00 675.00	\$ \$	17,536.00 21,600.00
3	BUILDING SERVICE PLUG	64 each	\$	206.00	\$	13,184.00
4	RESTORATION OF LAWNS AND PARKWAYS Topsoil and sod	1,387 sq.yd.	\$	14.00	\$	19,418.00
5	RESTORATION OF STREETS Bit. Concrete Street	427 sq.yd.	\$	62.00	\$	26,474.00
6	TRENCH BACKFILL 0-8 feet deep	800 lin. ft.	<u>\$</u>	61.00	\$	48,800.00
	SUBTOTAL				\$	250,500.00
	TOTAL ESTIMATE OF CONST	RUCTION COST			\$	784,200.00
		•	20%) 20%) (6%)			\$156,800.00 \$156,800.00 \$65,900.00
	TOTAL OPINION OF PROBAB	LE COST			\$	1,163,700.00
				Cost pe	r lot	\$18,180.00

Table 4.3-11

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
Woodward and 63rd Street

Preliminary Design Layout

Preminin	ary Design Layout					Manhole
	Manhole Number	Rim	<u>Invert</u>	Length (ft)	Slope	<u>Depth</u>
63rd Stre	<u>et</u>					
	H-2-160 (existing)	736.0	730.63	320	1.20%	5.4
	UC-42	744.0	734.47	320	1.2070	9.5
Woodwa	rd Avenue					
	H-2-173 (existing)	747.0	738.79	115	0.40%	8.2
	UC-50	748.0	739.25	113	0.4070	8.8

Table 4.3-12

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Woodward and 63rd Street

Engineer's Opinion of Probable Construction Cost

	Approxim							
No.	Pay Item		Quantit	У		Price		Amount
MAINL	INE SEWER							
1	SANITARY SEW 8-inch	ER (OPEN CUT) 8-12 feet deep	435	lin. ft.	\$	86.00	\$	37,410.00
	o mon	0 12 100t d00p	100		Ψ	00.00	Ψ	07,110.00
2	SANITARY MAN							
	48-inch	0-8 feet deep	1	each	\$	4,800.00	<u>\$</u> \$	4,800.00
		8-12 feet deep	1	each	\$	6,300.00	\$	6,300.00
3	CONNECTION T	O EXISTING MANHO	DLE					
_	8-inch		2	each	\$	6,100.00	\$	12,200.00
4	TRENCH BACK	=11 1						
•	8-inch	0-8 feet deep	215	lin. ft.	\$	92.00	\$	19,780.00
		8-12 feet deep	220	lin. ft.	\$	112.00	\$	24,640.00
5	TREE TUNNELII	NG	40	lin. ft.	\$	190.00	\$	7,600.00
3	TIXEL TOMNELII	NG	40	III I. IL.	Ψ	190.00	Ψ	7,000.00
6	SEWER TELEVI	SING FOR FINAL IN	SPECTION					
			435	lin. ft.	\$	2.50	\$	1,087.50
7	SEWER TESTIN	IG FOR FINAL INSPE	CTION					
			435	lin. ft.	\$	2.50	\$	1,087.50
8	CUI VERT REMO	OVAL AND REPLACE	MENT					
Ū	15-inch	3 V / L / L / L / L / L / L / L / L / L /	80	lin. ft.	\$	102.00	\$	8,160.00
_								
9	RESTORATION AND PARKWAY							
	Topsoil and		725	sq.yd.	\$	14.00	\$	10,150.00
	r opeen and		, 20	04.74.	Ψ	1 1100	Ψ	10,100.00
10	RESTORATION							
	Bit. Concrete	e Street	0	sq.yd.	\$	63.00	\$	0.00
11	REMOVE AND F	REPLACE DRIVEWAY	rs					
	Bituminous			sq.yd.	<u>\$</u>	48.00	<u>\$</u>	8,192.00
	Concrete		10	sq.yd.	\$	80.00	\$	800.00
12	REMOVE AND F	REPLACE SIDEWALK	(
	4' Concrete		0	sq.ft.	\$	13.00	\$	0.00

Table 4.3-12

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Woodward and 63rd Street

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxim Quantit		Unit Price		Amount
13	TREE REMOVAL AND TRIMMING			Lump Sum	\$	2,632.00
14	EROSION CONTROL			Lump Sum	\$	658.00
15	TRAFFIC CONTROL			Lump Sum	\$	8,554.00
	SUBTOTAL				<u>\$</u>	154,051.00
SERVI	CE LATERALS					
1	BUILDING SERVICE LINES Near side Far side	110 189	lin. ft. lin. ft.		.00 \$.00 \$	5,390.00 9,261.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	11 7	each each	\$ 548 \$ 675		6,028.00 4,725.00
3	BUILDING SERVICE PLUG	18	each	\$ 206	.00 \$	3,708.00
4	RESTORATION OF LAWNS AND PARKWAYS Topsoil and sod	219	sq.yd.	\$ 14	.00 \$	3,064.45
5	RESTORATION OF STREETS Bit. Concrete Street	103	sq.yd.	\$ 62	.00 \$	6,365.33
6	TRENCH BACKFILL 0-8 feet deep	182	lin. ft.	\$ 61	.00 \$	11,102.00
	SUBTOTAL				<u>\$</u>	49,643.78
	TOTAL ESTIMATE OF CONS	TRUCTION CO	OST		\$	203,700.00
			\$40,700.00 \$40,700.00 \$17,100.00 \$18,100.00			
	TOTAL OPINION OF PROBAG	BLE COST			<u>\$</u>	320,300.00
				Cost per lo	t	\$17,790.00

Table 4.3-13

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Lee and Boundry (South)

Preliminary Design Layout

	Manhole Number	Rim	<u>Invert</u>	Length (ft)	<u>Slope</u>	Manhole <u>Depth</u>
Lee Aven	<u>ue</u>					
	H-2-151 (existing)	750.0	735.65	400	1.60%	14.4
	UC-51	750.0	742.05	400	1.50%	8.0
	UC-52	760.0	748.05	400	3.50%	12.0
	UC-53	770.0	762.05	400	3.30 %	8.0
Boundary	Road					
	UC-41	753.0	742.10	430	1.50%	10.9

Table 4.3-14

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Lee and Boundary (South)

Engineer's Opinion of Probable Construction Cost

Approximate Unit Quantity Price No. Pay Item Amount MAINLINE SEWER 1 SANITARY SEWER (OPEN CUT) 8-inch 0-8 feet deep 509 lin. ft. 74.00 37.666.00 \$ 8-12 feet deep 754 lin. ft. 86.00 \$ 64,844.00 \$ \$ 12-16 feet deep lin. ft. 38,535.00 367 105.00 2 SANITARY MANHOLES \$ \$ 0-8 feet deep 2 9,600.00 48-inch each 4,800.00 2 6,300.00 \$ 12,600.00 8-12 feet deep each 3 CONNECTION TO EXISTING MANHOLE 8-inch 2 each \$ 6,100.00 \$ 12,200.00 4 TRENCH BACKFILL 8-inch 0-8 feet deep 130 lin. ft. 92.00 11,960.00 \$ \$ 8-12 feet deep 225 lin. ft. 112.00 25,200.00 \$ \$ 12-16 feet deep 42 lin. ft. 136.00 5,712.00 5 TREE TUNNELING lin. ft. \$ 190.00 \$ 15,010.00 79 6 SEWER TELEVISING FOR FINAL INSPECTION 1,630 lin. ft. \$ 2.50 \$ 4,075.00 7 SEWER TESTING FOR FINAL INSPECTION 1,630 lin. ft. \$ 2.50 \$ 4,075.00 8 CULVERT REMOVAL AND REPLACEMENT 12-inch 200 lin. ft. 00.08 16,000.00 9 RESTORATION OF LAWNS AND PARKWAYS Topsoil and sod 2,901 sq.yd. \$ 14.00 \$ 40,614.00 10 RESTORATION OF STREETS Bit. Concrete Street 93 sq.yd. \$ 63.00 5,859.00 \$ \$ PCC Curb & Gutter 20 lin. ft. 41.00 820.00 11 REMOVE AND REPLACE DRIVEWAYS **Bituminous** 48.00 7,584.00 158 sq.yd. \$ \$ **PCC** Driveway 83 sq.yd. 00.08 6,640.00 Aggregate Driveway \$ 20.00 \$ 1,220.00 61 sq.yd. 12 TREE REMOVAL AND TRIMMING \$ Lump Sum 1,645.00

Table 4.3-14

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Lee and Boundary (South)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxir Quant			Unit Price		Amount
13	EROSION CONTROL			Lum	p Sum	\$	658.00
14	TRAFFIC CONTROL			Lum	p Sum	\$	7,238.00
	SUBTOTAL					\$	329,755.00
SERVIC	CE LATERALS						
1	BUILDING SERVICE LINES Near side Far side	200 1,064	lin. ft. lin. ft.	\$ \$	49.00 49.00	\$	9,800.00 52,136.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	20 19	each each	\$ \$	548.00 675.00	\$ \$	10,960.00 12,825.00
3	BUILDING SERVICE PLUG	39	each	\$	206.00	\$	8,034.00
4	RESTORATION OF LAWNS AND PARKWAYS Topsoil and sod	1,017	sq.yd.	\$	14.00	\$	14,238.00
5	RESTORATION OF STREETS Bit. Concrete Street	377	sq.yd.	\$	62.00	\$	23,374.00
6	TRENCH BACKFILL 0-8 feet deep	519	lin. ft.	\$	61.00	\$	31,659.00
	SUBTOTAL					\$	163,026.00
	TOTAL ESTIMATE OF CONS	STRUCTION (COST			\$	492,800.00
		Contingenc Engineering Legal / Adm	(2	0%) 0%) 6%)			\$98,600.00 \$98,600.00 \$41,400.00
	TOTAL OPINION OF PROBA	BLE COST				\$	731,400.00
					Cost per lo	t	\$18,750.00

Table 4.3-15

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Springside (South)

Preliminary Design Layout

<u>Ma</u>	anhole Number	Rim	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
Springside Ave	enue					
H-2	2-166 (existing)	740.0	726.63	250	0.80%	13.4
	UC-55	742.0	728.63	400	1.80%	13.4
	UC-56	749.0	735.83	400	1.00 /0	13.2

Table 4.3-16

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Springside (South)

Engineer's Opinion of Probable Construction Cost

		Approximate				
No.	Pay Item	Quanti	ty	Price		Amount
MAINLII	NE SEWER					
1	SANITARY SEWER (OPEN 8-inch 0-8 fe	I CUT) eet deep 650	lin. ft.	\$ 74.	00 \$	48,100.00
2	SANITARY MANHOLES 48-inch 0-8 fe	eet deep 2	each	\$ 4,800.	00 \$	9,600.00
3	CONNECTION TO EXISTIN 8-inch	NG MANHOLE 1	each	\$ 6,100.	00 \$	6,100.00
4	TRENCH BACKFILL 0-8 fe	eet deep 206	lin. ft.	\$ 92.	<u> </u>	18,952.00
5	TREE TUNNELING	60	lin. ft.	\$ 190.	00 \$	11,400.00
6	SEWER TELEVISING FOR	FINAL INSPECTION 650	N lin. ft.	\$ 2.	50 <u>\$</u>	1,625.00
7	SEWER TESTING FOR FIN	NAL INSPECTION 650	lin. ft.	\$ 2.	50 <u>\$</u>	1,625.00
8	CULVERT REMOVAL AND 15-inch	REPLACEMENT 150	lin. ft.	\$ 102.	00 \$	15,300.00
9	RESTORATION OF LAWNS AND PARKWAYS Topsoil and sod		sq.yd.	\$ 14.	<u> </u>	15,372.00
10	RESTORATION OF STREE Bit. Concrete Street		sq.yd.	\$ 63.	00 \$	2,205.00
11	REMOVE AND REPLACE D	_	sq.yd.	\$ 48.	00 \$	5,280.00
12	TREE REMOVAL AND TRIE	MMING		Lump Sum	\$	1,974.00
13	EROSION CONTROL			Lump Sum	\$	658.00

Table 4.3-16

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Springside (South)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxir Quant			Unit Price		Amount
	TRAFFIC CONTROL		,	Lum	p Sum	\$	3,290.00
1-7	SUBTOTAL			Lam	p Guill		
	SUBTUTAL					\$	141,481.00
SERVIC	E LATERALS						
1	BUILDING SERVICE LINES			_		_	
	Near side Far side	80 450	lin. ft. lin. ft.	<u>\$</u> \$	49.00 49.00	<u>\$</u>	3,920.00 22,050.00
2	BUILDING SERVICE			<u></u>			,
2	BRANCH FITTINGS						
	Near Side Far side	5 9	each each	<u>\$</u> \$	548.00 675.00	<u>\$</u> \$	2,740.00 6,075.00
	i di Side	3	Gaoii		073.00		0,073.00
3	BUILDING SERVICE PLUG	14	each	\$	206.00	\$	2,884.00
4	RESTORATION OF LAWNS						
	AND PARKWAYS Topsoil and sod	400	sq.yd.	\$	14.00	\$	5,600.00
	·	100	oq.yu.	Ψ	1 1.00	Ψ	0,000.00
5	RESTORATION OF STREETS Bit. Concrete Street	160	sq.yd.	\$	62.00	\$	9,920.00
			- 4-7	<u>*</u>		Ť	
6	TRENCH BACKFILL 0-8 feet deep	216	lin. ft.	\$	61.00	\$	13,176.00
	SUBTOTAL					\$	66,365.00
	TOTAL ESTIMATE OF CONS	STRUCTION (COST			\$	207,800.00
		Continuo	iaa (0	00()			\$44.000.00
		Contingenc Engineering		0%) 0%)			\$41,600.00 \$41,600.00
		Legal / Adm		6%)			\$17,500.00
	TOTAL OPINION OF PROBA	BLE COST				\$	308,500.00
					Cost per lo	ot	\$22,040.00

Table 4.3-17

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Springside-Jefferson-Downers (North)

Preliminary Design Layout

<u>Manho</u>	le Number	Rim	<u>Invert</u>	Length (ft)	<u>Slope</u>	Manhole <u>Depth</u>
Downers Drive						
H-3-2-1	4 (existing)	755.0	736.20	38	0.40%	18.8
U	IC-57	754.0	736.35			17.6
U	IC-58	756.0	737.35	250	0.40%	18.6
U	IC-59	754.0	738.36	253	0.40%	15.6
U	IC-60	757.5	739.73	341	0.40%	17.8
U	IC-61	753.0	741.09	340	0.40%	11.9
Jefferson Drive						
U	IC-62	750.0	742.09	250	0.40%	7.9
Springside Avenue						
11	IC-63	750.0	742.97	220	0.40%	7.0
				198	0.40%	
	IC-64	750.0	742.88	384	2.00%	7.1
U	IC-65	763.0	750.56	140	1.00%	12.4
U	IC-66	764.0	751.96			12.0
H-3-110 (existing)		755.3	745.25	220	2 000/	10.0
U	IC-67	764.0	754.85	320	3.00%	9.1

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Table 4.3-18

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Springside-Jefferson-Downers (North)

Engineer's Opinion of Probable Construction Cost

	Approximate Unit							
No.	Pay Item		Quant	ity		Price		Amount
MAINLII	NE SEWER							
1	SANITARY SEV	VER (OPEN CUT)						
•	8-inch	0-8 feet deep	418	lin. ft.	\$	74.00	\$	30,932.00
	55	8-12 feet deep	1,114	lin. ft.	\$ \$ \$	86.00	\$ \$ \$	95,804.00
		12-16 feet deep	588	lin. ft.	\$	105.00	\$	61,740.00
		16-20 feet deep	614	lin. ft.	\$	126.00	\$	77,364.00
2	SANITARY MAN				•		•	
	48-inch	0-8 feet deep	3	each	\$	4,800.00	\$ \$ \$	14,400.00
		8-12 feet deep	4	each	\$	6,300.00	\$	25,200.00
		12-16 feet deep	1	each	\$	7,600.00	\$	7,600.00
		16-20 feet deep	3	each	\$	10,200.00	\$	30,600.00
3	CONNECTION	TO EXISTING MANH	OLF.					
Ü	8-inch	TO EXIOTING WINNIN	2	each	\$	6,100.00	\$	12,200.00
	55		_	• • • • • • • • • • • • • • • • • • • •	<u>*</u>	3,100.00	<u> </u>	. =,=00.00
4	TRENCH BACK	(FILL						
	8-inch	0-8 feet deep	370	lin. ft.	\$	92.00	\$	34,040.00
		8-12 feet deep	680	lin. ft.	\$	112.00	\$ \$ \$	76,160.00
		12-16 feet deep	481	lin. ft.	\$	136.00	\$	65,416.00
		16-20 feet deep	608	lin. ft.	\$	178.00	\$	108,224.00
_								
5	TREE TUNNEL	ING	60	lin. ft.	\$	190.00	\$	11,400.00
6	SEWIED TELEVI	ISING FOR FINAL IN	SDECTION	NI.				
O	SEWER IELEV	ISING FOR FINAL IN	2,734	lin. ft.	\$	2.50	\$	6,835.00
			2,734	III I. IC.	Ψ	2.50	Ψ	0,033.00
7	SEWER TESTI	NG FOR FINAL INSPE	ECTION					
			2,734	lin. ft.	\$	2.50	\$	6,835.00
			,					· · · · · · · · · · · · · · · · · · ·
8		IOVAL AND REPLACE						
	12-inch		160	lin. ft.	\$	80.00	\$	12,800.00
•	DE070D47104							
9	RESTORATION							
	AND PARKWAY	_	2.050		Φ	11.00	c	F2 000 00
	Topsoil ar	ia soa	3,850	sq.yd.	\$	14.00	\$	53,900.00
10	RESTORATION	LOF STREETS						
10	Bit. Concre		625	sq.yd.	\$	63.00	\$	39,375.00
	00010		0_0	1-7	<u> </u>	33.33		23,2.2.30
11	REMOVE AND	REPLACE DRIVEWA	YS					
	Bituminous		255	sq.yd.	\$	48.00	\$	12,240.00
	Concrete		72	sq.yd.	\$	80.00	\$ \$ \$	5,760.00
	Aggregate		162	sq.yd.	\$	20.00	\$	3,240.00

Table 4.3-18

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Springside-Jefferson-Downers (North)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxir Quant			Unit Price		Amount
12	TREE REMOVAL AND TRIMMING			Lum	p Sum	\$	2,961.00
13	EROSION CONTROL			Lum	p Sum	\$	987.00
14	TRAFFIC CONTROL:			Lum	p Sum	\$	6,580.00
	SUBTOTAL					\$	796,013.00
SERVIC	E LATERALS						
1	BUILDING SERVICE LINES Near side Far side	495 912	lin. ft. lin. ft.	\$ \$	49.00 49.00	\$ \$	24,255.00 44,688.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	33 19	each each	\$ \$	548.00 675.00	<u>\$</u>	18,084.00 12,825.00
3	BUILDING SERVICE PLUG	52	each	\$	206.00	\$	10,712.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	842	sq.yd.	\$	14.00	\$	11,788.00
5	RESTORATION OF STREETS Bit. Concrete Street	388	sq.yd.	\$	62.00	\$	24,056.00
6	TRENCH BACKFILL 0-8 feet deep	494	lin. ft.	\$	61.00	\$	30,134.00
7	REMOVE AND REPLACE DRIVEWAY Bituminous		sq.yd.	\$	47.00	\$	1,128.00
	SUBTOTAL					\$	177,670.00
	TOTAL ESTIMATE OF CONSTRU	JCTION C	COST			\$	973,700.00
	Er	ontingenci ngineering egal / Adm) (2	0%) 0%) 6%)			\$194,700.00 \$194,700.00 \$81,800.00
	TOTAL OPINION OF PROBABLE	COST				\$	1,444,900.00
					Cost pe	r lot	\$27,790.00

Table 4.3-19
Downers Grove Sanitary District
Possible Special Assessment for Sanitary Sewers
Pershing-Woodward-Maple (North)
Preliminary Design Layout

riemminar	y Design Layout					Manhole
	Manhole Number	Rim	<u>Invert</u>	Length (ft)	<u>Slope</u>	<u>Depth</u>
Maple Aver	<u>nue</u>					
	2-C-131 (existing)	730.2	711.80	300	2.00%	18.4
	UC-106	740.0	729.80	300	2.0070	10.2
	2-C-151 (existing)	741.6	723.72	450	3.50%	17.9
	UC-71	752.0	739.47		2.00%	12.5
	UC-70	760.0	748.47	450	2.00%	11.5
Woodward	<u>Avenue</u>					
	2-C-155 (existing)	735.7	727.36			8.3
	UC-86	746.0	731.36	400	1.00%	14.6
	UC-87	750.0	739.36	400	2.00%	10.6
	UC-88	760.0	751.36	400	5.00%	8.6
	UC-89	778.0	761.36	400	5.00%	16.6
Blanchard S	<u>Street</u>					
	UC-77	739.0	730.94	325	1.10%	8.1
	UC-78	756.0	735.62	390	1.20%	20.4
Pershing Av	venu <u>e</u>					
_	UC-79	750.0	737.22	400	0.40%	12.8
	UC-80	747.5	738.82	400	0.40%	8.7
	UC-81	752.0	739.46	160	0.40%	12.5
	UC-82	764.0	750.07	225	5.00%	13.9
	UC-84	752.0	738.42	350	0.80%	13.6
	UC-85	750.0	741.62	400	0.80%	8.4
59th Street		700.0	171.02			0.4
<u>3011 011 001</u>	UC-83	748.5	741.06	400	0.40%	7.4
	00 00	7 70.0	7 7 1.00			7.7

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			Approx			Unit		
No.	Pay Item		Quar	ntity		Price		Amount
MAINLI	NE SEWER							
1	SANITARY SEWER (O	,						
	8-inch	0-8 feet deep	1,130	lin. ft.	\$	74.00	\$	83,620.00
		8-12 feet deep	3,300	lin. ft.	\$ \$	86.00	\$	283,800.00
		12-16 feet deep	960	lin. ft.	\$	105.00	\$ \$ \$	100,800.00
		16-20 feet deep	460	lin. ft.	\$	126.00	\$	57,960.00
2	SANITARY MANHOLES	S						
_	48-inch	0-8 feet deep	4	each	\$	4,800.00	\$	19,200.00
		8-12 feet deep	8	each	\$	6,300.00	\$	50,400.00
		12-16 feet deep	3	each	\$	7,600.00	\$	22,800.00
		16-20 feet deep	1	each	\$	10,200.00	\$ \$ \$	10,200.00
	00111507101170 514	0711101111111111						
3	CONNECTION TO EXI	STING MANHOLE	0		Φ.	0.400.00	Φ.	40.000.00
	8-inch		3	each	\$	6,100.00	\$	18,300.00
4	TRENCH BACKFILL							
	8-inch	0-8 feet deep	1,203	lin. ft.	\$	92.00	\$	110,676.00
		8-12 feet deep	1,391	lin. ft.	\$ \$ \$	112.00	\$	155,792.00
		12-16 feet deep	676	lin. ft.	\$	136.00	\$	91,936.00
		16-20 feet deep	347	lin. ft.	\$	178.00	\$ \$ \$	61,766.00
5	TREE TUNNELING		440	lin. ft.	\$	190.00	\$	83,600.00
					<u> </u>		<u> </u>	
6	SEWER TELEVISING I	FOR FINAL INSPECT	ION					
			5,850	lin. ft.	\$	2.50	\$	14,625.00
7	SEWER TESTING FOR	R FINAL INSPECTION	J					
•	OLWER TEOTINOT OF	(TINAL IIVOI LOTIOI	5 ,850	lin. ft.	\$	2.50	\$	14,625.00
			-,		<u> </u>		<u> </u>	,
8		AND REPLACEMENT						
	15-inch		10	lin. ft.	\$	102.00	\$	1,020.00
	12-inch		185	lin. ft.	\$	80.00	\$	14,800.00
۵	RESTORATION OF LA	WNS						
9	AND PARKWAYS:	VVINO						
	Topsoil and sod		6,027	sq.yd.	\$	14.00	\$	84,378.00
	ropson and sod		0,021	oq.yu.	Ψ	14.00	Ψ	04,070.00
10	RESTORATION OF ST	REETS						
	Bit. Concrete Stree	et	2,018	sq.yd.	\$	63.00	\$	127,134.00
11	REMOVE AND REPLA	CE DRI\/E\\/ \\ \\ \						
11	Bituminous	OL DINIVLWATO	695	sq.yd.	\$	48.00	\$	33,360.00
	PCC		55	sq.yd. sq.yd.	\$	80.00	<u>\$</u>	4,400.00
	1 00		55	oq.yu.	Ψ	30.00	Ψ	7,700.00

Table 4.3-20

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Pershing-Woodward-Maple (North)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approx Qua			Unit Price		Amount
12	TREE REMOVAL AND TRIMMING		-		Lump Sum	\$	1,316.00
13	EROSION CONTROL						
	Silt Fence				Lump Sum	\$	6,577.37
14	TRAFFIC CONTROL:				Lump Sum	\$	11,844.00
	SUBTOTAL					\$	1,464,929.37
SERVIC	CE LATERALS						
1	BUILDING SERVICE LINES						
	Near side	842	lin. ft.	\$	49.00	\$	41,258.00
	Far side	2,286	lin. ft.	\$	49.00	\$	112,014.00
	Riser Pipes	74	vert. ft.	\$	47.00	\$	3,478.00
2	BUILDING SERVICE						
	BRANCH FITTINGS						
	Near Side	58	each	\$	548.00	\$	31,784.00
	Far side	46	each	\$	675.00	\$	31,050.00
3	BUILDING SERVICE PLUG	104	each	\$	206.00	\$	21,424.00
4	RESTORATION OF LAWNS						
	AND PARKWAYS:	0.447		•	4400	•	00 000 00
	Topsoil and sod	2,417	sq.yd.	\$	14.00	\$	33,838.00
5	RESTORATION OF STREETS			_			
	Bit. Concrete Street	562	sq.yd.	<u>\$</u>	62.00	\$	34,844.00
6							
	0-8 feet deep	1,090	lin. ft.	\$	61.00	\$	66,490.00
	SUBTOTAL					\$	376,180.00
	TOTAL ESTIMATE OF CONSTR	UCTION COST				\$	1,841,100.00
		Contingend	cies		(20%)		\$368,200.00
		Engineerin			(20%)		\$368,200.00
		Legal / Adr			`(6%)		\$154,700.00
		Easement		on	()		\$42,800.00
	TOTAL OPINION OF PROBABLI	E COST				\$	2,775,000.00
					Cost per lo	ot	\$26,680.00

Table 4.3-21

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Sherman Avenue (North)

Preliminary Design Layout

Manhole Number	Rim	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
Sherman Avenue					
2-C-142 (existing)	734.5	726.04			8.5
UC-90	752.0	730.28	212	2.00%	21.7
110.04	740.0		400	0.40%	
UC-91	746.0	731.88	400	0.40%	14.1
UC-92	742.0	733.48	400	0.000/	8.5
UC-93	760.0	745.48	400	3.00%	14.5
			400	3.00%	
UC-94	767.0	757.48			9.5

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Table 4.3-22

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Sherman Avenue (North)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item		Approxi Quan			Unit Price		Amount
MAINLI	NE SEWER							
1	SANITARY SEWE	ER (OPEN CUT)						
	8-inch	8-12 feet deep	870	lin. ft.	\$	86.00	\$	74,820.00
		12-16 feet deep	570	lin. ft.	\$	105.00	\$ \$ \$	59,850.00
		16-20 feet deep	385	lin. ft.	\$	126.00	\$	48,510.00
2	SANITARY MANH	IOLES						
	48-inch	8-12 feet deep	2	each	\$	6,300.00	\$	12,600.00
		12-16 feet deep	2	each	\$ \$	7,600.00	\$ \$ \$	15,200.00
		16-20 feet deep	1	each	\$	10,200.00	\$	10,200.00
3	CONNECTION TO	EXISTING MANH	OLE					
	8-inch		1	each	\$	6,100.00	\$	6,100.00
4	TRENCH BACKFI	11						
·	8-inch	8-12 feet deep	870	lin. ft.	\$	112.00	\$	97,440.00
		12-16 feet deep	570	lin. ft.	\$ \$ \$	136.00	\$ \$ \$	77,520.00
		16-20 feet deep	385	lin. ft.	\$	178.00	\$	68,530.00
5	TREE TUNNELIN	G	120	lin. ft.	\$	190.00	\$	22,800.00
6	SEWER TELEVIS	ING FOR FINAL IN	SPECTIO	N				
				lin. ft.	\$	2.50	\$	4,562.50
7	SEWER TESTING	FOR FINAL INSPI	ECTION					
			1,825	lin. ft.	\$	2.50	\$	4,562.50
8	CULVERT REMO	VAL AND REPLACI	EMENT					
	12-inch		360	lin. ft.	\$	80.00	\$	28,800.00
9	RESTORATION C	F LAWNS						
	AND PARKWAYS							
	Topsoil and	sod	2,847	sq.yd.	\$	14.00	\$	39,858.00
10	RESTORATION C	F STREETS						
	Bit. Concrete	Street	89	sq.yd.	\$	63.00	\$	5,607.00
11	STORM SEWER	REMOVAL AND RE	PLACEM	ENT				
	18" RCP		20	lin. ft.	\$	102.00	\$	2,040.00
12	REMOVE AND RE	EPLACE DRIVEWA	YS					
	Bituminous		428	sq.yd.	\$	48.00	<u>\$</u> \$	20,544.00
	Concrete		43	sq.yd.	\$	80.00	\$	3,440.00

Table 4.3-22

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Sherman Avenue (North)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity	Unit Price		Amount
INO.	ray item	Quantity	FIICE		Amount
13	TREE REMOVAL AND TRIMMING		Lump Sum	\$	1,645.00
14	EROSION CONTROL		Lump Sum	\$	658.00
15	TRAFFIC CONTROL		Lump Sum	\$	6,580.00
	SUBTOTAL			\$	611,867.00
SERVIC	CE LATERALS				
1	BUILDING SERVICE LINES Near side Far side	405 lin. ft. 1,377 lin. ft.	\$ 49.00 \$ 49.00	\$ \$	19,845.00 67,473.00
	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	27 each 27 each	\$ 548.00 \$ 675.00	<u>\$</u>	14,796.00 18,225.00
3	BUILDING SERVICE PLUG	54 each	\$ 206.00	\$	11,124.00
4 5	RESTORATION OF LAWNS AND PARKWAYS Topsoil and sod RESTORATION OF STREETS	1,260 sq.yd.	\$ 14.00	\$	17,640.00
	Bit. Concrete Street	504 sq.yd.	\$ 62.00	\$	31,248.00
6	TRENCH BACKFILL 0-8 feet deep	648 lin. ft.	\$ 61.00	\$	39,528.00
	SUBTOTAL			\$	219,879.00
	TOTAL ESTIMATE OF CONST	RUCTION COST		\$	831,700.00
		Engineering (2	0%) 0%) 6%)		\$166,300.00 \$166,300.00 \$69,900.00
	TOTAL OPINION OF PROBAB	LE COST		\$	1,234,200.00

Cost per lot \$22,860.00

Table 4.3-23

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
Lee Avenue (North)

Preliminary Design Layout

	Manhole Number	Rim	<u>Invert</u>	Length (ft)	<u>Slope</u>	Manhole <u>Depth</u>
Maple Av	<u>enue</u>					
	2-C-147 (existing)	750.8	737.48	000	0.000/	13.3
	UC-99	760.0	748.88	380	3.00%	11.1
Lee Aven	<u>ue</u>					
	2-C-149 (existing)	759.1	745.52			13.6
	UC-101	762.0	746.56	260	0.40%	15.4
	UC-102	756.0	748.16	400	0.40%	7.8
				400	0.80%	
	UC-103	760.0	751.36	400	1.80%	8.6
	UC-104	767.0	758.56			8.4
	UC-105	774.0	765.76	400	1.80%	8.2

Table 4.3-24

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Lee Cost Estimate

Engineer's Opinion of Probable Construction Cost

Approximate Unit Quantity Price Amount No. Pay Item MAINLINE SEWER 1 SANITARY SEWER (OPEN CUT) 8-inch 0-8 feet deep 200 lin. ft. 74.00 14.800.00 8-12 feet deep 1,250 lin. ft. \$ 86.00 \$ 107,500.00 \$ \$ lin. ft. 105.00 14,700.00 12-16 feet deep 140 \$ 126.00 \$ 32,760.00 16-20 feet deep 260 lin. ft. 2 DIRECTIONAL DRILLING 8-inch 400 lin. ft. \$ 272.00 108,800.00 3 SANITARY MANHOLES 48-inch 0-8 feet deep 1 each 4,800.00 4,800.00 \$ \$ 12,600.00 8-12 feet deep 2 each 6,300.00 2 \$ 7,600.00 \$ 15,200.00 12-16 feet deep each \$ \$ 16-20 feet deep 1 each 10,200.00 10,200.00 4 CONNECTION TO EXISTING MANHOLE 8-inch 2 \$ each \$ 6,100.00 12,200.00 5 TRENCH BACKFILL lin. ft. 8-inch 0-8 feet deep 200 92.00 18,400.00 \$ 8-12 feet deep 1,250 112.00 \$ 140,000.00 lin. ft. \$ \$ 12-16 feet deep 140 lin. ft. 136.00 19,040.00 16-20 feet deep lin. ft. \$ 178.00 \$ 46,280.00 260 \$ 6 TREE TUNNELING lin. ft. \$ 190.00 0.00 7 SEWER TELEVISING FOR FINAL INSPECTION 2,250 lin. ft. \$ 2.50 \$ 5,625.00 8 SEWER TESTING FOR FINAL INSPECTION 2,250 lin. ft. \$ 2.50 5,625.00 9 CULVERT REMOVAL AND REPLACEMENT 12-inch 55 lin. ft. \$ 00.08 4,400.00 10 STORM SEWER REMOVAL AND REPLACEMENT 18" RCP 20 lin. ft. 102.00 \$ 2.040.00 \$ 11 RESTORATION OF LAWNS AND PARKWAYS Topsoil and sod 457 sq.yd. \$ 14.00 \$ 6.398.00 12 RESTORATION OF STREETS Bit. Concrete Street 1,678 sq.yd. \$ 63.00 105,714.00

Table 4.3-24

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Lee Cost Estimate

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxin Quant		Unit Price			Amount	
40	42. DEMOVE AND DEDLACE DRIVEWAYS							
13	REMOVE AND REPLACE DRIVE Bituminous		sq.yd.	\$	48.00	\$	34,128.00	
	Concrete		sq.yd. sq.yd.	<u>\$</u> \$	80.00	<u>\$</u> \$	14,240.00	
			- 17-				·	
14	TREE REMOVAL AND TRIMMIN	IG:		Lum	p Sum	\$	658.00	
15	EROSION CONTROL			Lum	p Sum	\$	658.00	
16	TRAFFIC CONTROL			Lump Sum		\$	9,870.00	
	SUBTOTAL					\$	746,636.00	
SERVIC	E LATERALS							
1	BUILDING SERVICE LINES							
	Near side	522	lin. ft.	\$	49.00	<u>\$</u>	25,578.00	
	Far side	1,200	lin. ft.	\$	49.00	\$	58,800.00	
2	BUILDING SERVICE BRANCH FITTINGS							
	Near Side	29	each	\$	548.00	\$	15,892.00	
	Far side	25	each	\$	675.00	\$ \$	16,875.00	
3	BUILDING SERVICE PLUG	54	each	\$	206.00	\$	11,124.00	
4	RESTORATION OF LAWNS							
	AND PARKWAYS							
	Topsoil and sod	1,156	sq.yd.	\$	14.00	\$	16,184.00	
5	RESTORATION OF STREETS							
	Bit. Concrete Street	422	sq.yd.	\$	62.00	\$	26,164.00	
6	TRENCH BACKFILL							
	0-8 feet deep	625	lin. ft.	\$	61.00	\$	38,125.00	
	SUBTOTAL					\$	208,742.00	
	TOTAL ESTIMATE OF CON	ICTULICTIC	N COST			•		
	TOTAL ESTIMATE OF CON	ISTRUCTIO	N COST			\$	955,400.00	
		Contingenc	ies (2	0%)			\$191,100.00	
Engineering (20%) Legal / Admin (6%) Easement Acquisition							\$191,100.00	
							\$80,300.00	
							\$14,600.00	
	TOTAL OPINION OF PROB	ABLE COST	Ī			\$	1,432,500.00	
					Cost per lo	ot	\$26,530.00	

Table 4.3-25

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Downers Grove Gardens Sub-Area

Cost Summary

Sub-Basin:	Near Services	Far Services	Cost		Cost per lot	
			_		_	
Janes-Leonard-Chase-Puffer (North)	37	31	\$	1,280,800.00	\$	18,840.00
Janes-Leonard-Chase-Puffer (South)	72	57	\$	2,411,300.00	\$	18,690.00
Belmont-Southwest	25	0	\$	619,900.00	\$	24,800.00
Belmont Road (East)	52	0	\$	1,215,100.00	\$	23,370.00
Pershing Avenue (South)	32	32	\$	1,163,700.00	\$	18,180.00
Woodward and 63rd Street	11	7	\$	320,300.00	\$	17,790.00
Lee and Boundary (South)	20	19	\$	731,400.00	\$	18,750.00
Springside (South)	5	9	\$	308,500.00	\$	22,040.00
Springside-Jefferson-Downers (North)	33	19	\$	1,444,900.00	\$	27,790.00
Pershing-Woodward-Maple (North)	58	46	\$	2,775,000.00	\$	26,680.00
Sherman Avenue (North)	27	27	\$	1,234,200.00	\$	22,860.00
Lee Avenue (North)	29	25	\$	1,432,500.00	\$	26,530.00
						_
TOTALS	401	272	\$	14,937,600.00	\$	22,200.00
	67	73				

4.4 Fairhaven Court

Fairhaven Court is a small service area adjacent to the Downers Grove Gardens sub-area. Exhibit 4.4 shows the approximate limits of this service area which is located north of Maple Avenue. The proposed service area currently includes 10 lots that are developed as single-family residences with septic systems. The purpose of this analysis is to establish the most cost-effective sanitary sewer plan for serving properties along Fairhaven Court.

Several factors were considered when determining the most cost-effective sewer layout. These factors include topography, tree protection, water main and existing utility location. In addition to following the ground contours, the low-cost sewer layout also needs to consider avoiding major road crossings. The one major road crossing that would significantly increase construction cost in this sub-area is Maple Avenue. Thus, alternatives were considered to minimize crossing of this roadway.

The Village of Downers Grove owns and operates a water main on Fairhaven Court. Water main locations were reviewed and field investigations of the sewer routes were completed to reduce the potential for utility conflicts and to ensure that the required ten feet of separation from water mains can be achieved.

The final component of this analysis was to evaluate the downstream capacity of the existing sewers. Our analysis determined that all of the existing sewers have adequate capacity to receive the additional flow from the Fairhaven Court sub-area.

A map of the proposed sewer plan is included in Exhibit 4.4.

The topography along Fairhaven Court is relatively flat, and thus, the direction of flow will be dictated by the available sewer depth and the most cost effective route. We identified two existing manholes that would provide adequate cover and would be feasible alternatives for connection points: the manhole located east of the dead end of Fairhaven Court and the manhole along Maple Avenue at Stonewall Avenue. We recommend the first alternative, connecting east of the dead end at Fairhaven Court to reduce the additional cost and pipe footage required to install a sewer in the Maple Avenue right-of-way.

The sewer should be placed in an easement on east side of Fairhaven Court. Previous studies have planned for the sewer to be installed east of the edge of pavement. Our field investigation determined that there is a significant amount of new landscaping, brickwork, lighting, and concrete driveways located in the proposed sewer path. Thus, we recommend that the sewer be installed in the east half of the pavement, opposite of the existing water main which is located west of the pavement centerline. Table 4.4-1 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.4-2 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$382,200, including contingency, engineering, and legal/administrative costs.

DOWNERS GROVE SANITARY DISTRICT UNSEWERED AREA PLAN

EXHIBIT 4.4

FAIRHAVEN COURT POSSIBLE SEWER ALIGNMENT

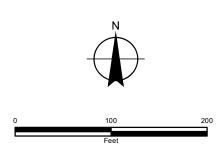
MARCH 2020

LEGEND

PROPOSED MANHOLES
PROPOSED SEWERS
EXISTING MANHOLES

EXISTING SEWERS

PARCEL BOUNDARIES
FAIRHAVEN COURT





\\corp.baxwood.com\\Projects\\Crystal Lake\\DGSD1\\200407-2020 UAP\\GIS\\MXDs\\4-4 Fairhaven_Ct.mxd 563dkc - 3/74/2020

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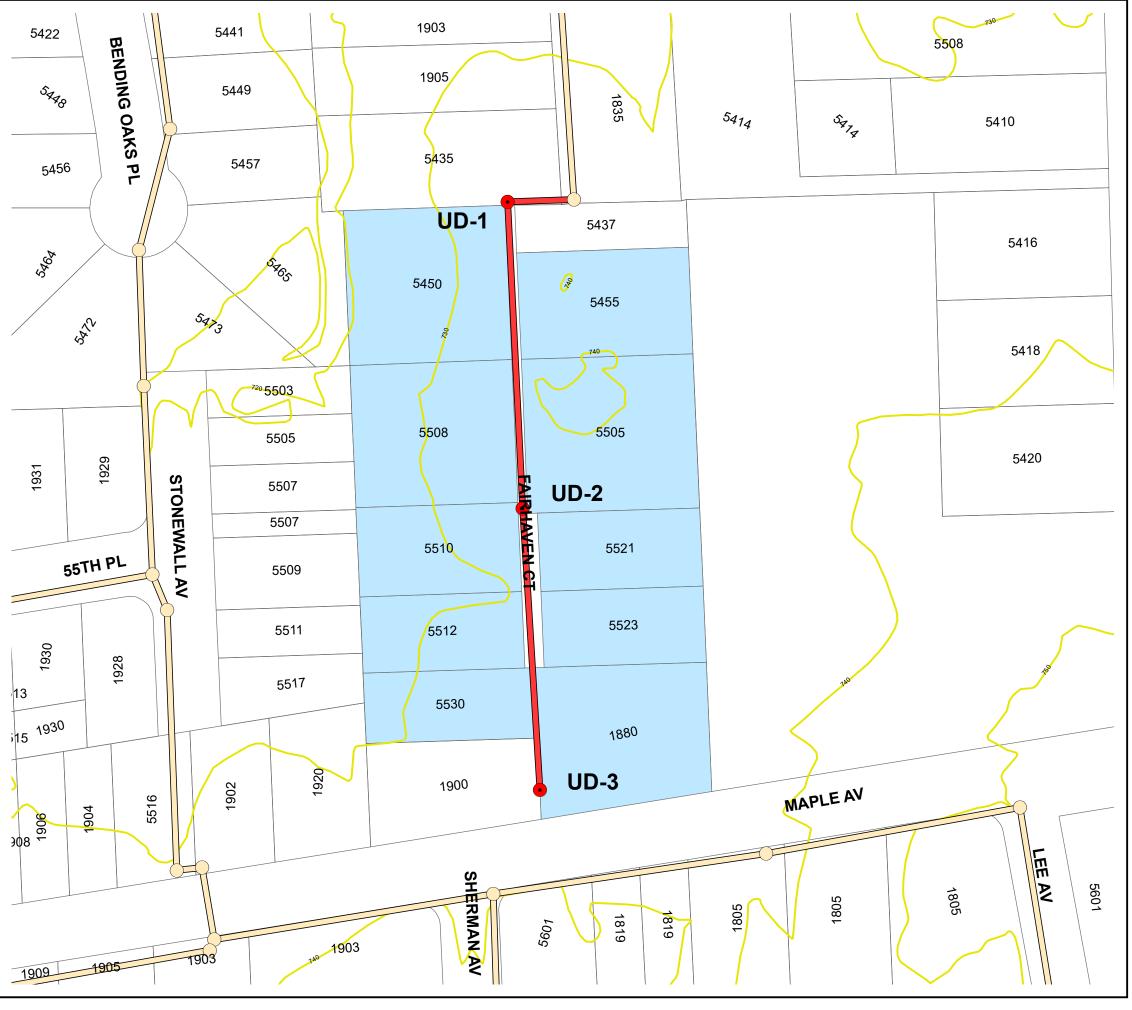


Table 4.4-1

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Fairhaven Court

Preliminary Design Layout

Manhole Numbe	<u>r Rim</u>	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
Fairhaven Court					
2-C-133 (existing) 736.0	723.00			13.0
UD-1	734.0	723.24	60	0.40%	10.8
LID 0	7040	704.04	320	0.50%	0.0
UD-2	734.0	724.84	290	0.50%	9.2
UD-3	735.0	726.29			8.7

Table 4.4-2

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Fairhaven Court

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxim Quantit		Unit Price	Amount
	•	Quantit	<u>y</u>	Filce	Amount
MAINLI	NE SEWER				
1	SANITARY SEWER (OPEN CUT) 8-inch 8-12 feet dee		lin. ft.	\$ 86.00	\$ 57,620.00
2	SANITARY MANHOLES 48-inch 8-12 feet dee	ep 3	each	\$ 6,300.00	\$ 18,900.00
3	CONNECTION TO EXISTING MA 8-inch	NHOLE 1	each	\$ 6,100.00	\$ 6,100.00
4	TRENCH BACKFILL 8-inch 8-12 feet dee	ep 630	lin. ft.	\$ 112.00	\$ 70,560.00
5	TREE TUNNELING	0	lin. ft.	\$ 190.00	\$ 0.00
6	SEWER TELEVISING FOR FINAL	INSPECTION 670	lin. ft.	\$ 2.50	\$ 1,675.00
7	SEWER TESTING FOR FINAL IN	SPECTION 670	lin. ft.	\$ 2.50	\$ 1,675.00
8	CULVERT REMOVAL AND REPL 12-inch	ACEMENT 0	lin. ft.	\$ 80.00	\$ 0.00
9	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	111	sq.yd.	\$ 14.00	\$ 1,554.00
10	RESTORATION OF STREETS Bit. Concrete Street		sq.yd.	\$ 63.00	\$ 35,280.00
11	REMOVE AND REPLACE DRIVE	WAYS 0	sq.yd.	\$ 48.00	\$ 0.00
12	TREE REMOVAL AND TRIMMING	3		Lump Sum	\$ 329.00
13	EROSION CONTROL			Lump Sum	\$ 329.00

Table 4.4-2

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Fairhaven Court

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxim Quantit			Unit Price		Amount
14	TRAFFIC CONTROL			Lum	p Sum	\$	6,580.00
	SUBTOTAL					\$	200,602.00
SERVIC	CE LATERALS						
1	BUILDING SERVICE LINES Near side Far side	100 125	lin. ft. lin. ft.	<u>\$</u>	49.00 49.00	\$ \$	4,900.00 6,125.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	5 5	each each	\$ \$	548.00 675.00	\$ \$	2,740.00 3,375.00
3	BUILDING SERVICE PLUG	10	each	\$	206.00	\$	2,060.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	139	sq.yd.	\$	14.00	\$	1,946.00
5	RESTORATION OF STREETS Bit. Concrete Street	33	sq.yd.	\$	62.00	\$	2,046.00
6	TRENCH BACKFILL 0-8 feet deep	70	lin. ft.	\$	61.00	\$	4,270.00
	SUBTOTAL					\$	27,462.00
	TOTAL ESTIMATE OF CONS	STRUCTION CC	ST			\$	228,100.00
		Contingencies Engineering Legal / Admin Easement Ac	(2	(0%) (0%) (6%)			\$45,600.00 \$45,600.00 \$19,200.00 \$43,700.00
	TOTAL OPINION OF PROBA	BLE COST				\$	382,200.00
					Cost per lo	ot	\$38,220.00

4.5 Burlington Highlands

Burlington Highlands is a large sub-area within the District's FPA that is currently unsewered. As shown on Exhibit 4.5, the approximate limits of this sub-area are Herbert Street to the north, Lacey Road to the west, Grant Street to the south, and Venard Road to the east. The proposed service area includes approximately 187 lots that are mostly developed as single-family residences with septic systems with some potential commercial lots on Ogden Avenue. The purpose of this analysis is to establish the most cost-effective sanitary sewer plan for serving properties within Burlington Highlands.

Several factors were considered when determining the most cost-effective sewer layout. These factors include topography, major road crossings, wetlands, tree protection, water main and existing utility location, and existing downstream sewer capacity. The Burlington Highlands sub-area has three major drainage divides. Serving the subject properties by following the ground contours will avoid deep cuts through the higher elevations along drainage divide. The study area can be divided into four smaller service areas. Properties to the southwest will be served by the existing sanitary sewer south of I-88 (at Lacey and Virginia). Central properties will be served by existing sewers southeast of I-88 (near Morton and Herbert). Residences on Venard Road, north of Drove Avenue will be served by the existing sewer stub 500 feet south of Parrish Court. Residences on Venard Road, just north of Ogden Avenue will be served by the existing sewer south of the park.

In addition to following the ground contours, the low-cost sewer layout also needs to consider avoiding major road crossings. The one major road crossing that would significantly increase construction cost in this sub-area is Ogden Avenue. Thus, alternatives were considered to minimize crossing of this route with both the mainline sewer and building services.

The sewer layout also considered the several wetlands that are located within the sub-area at the following locations: between Morton and Downers (proposed side yard easement), and various small wetlands located in the vacant development south of Ogden Avenue. Avoiding these wetlands will minimize the time and expense involved in the permitting process for construction in wetlands, as well as reduce the costs associated with restoring these areas.

The Village of Downers Grove and the DuPage Water Commission own and operate water mains on the streets within the sub-area. The water main design drawings were reviewed and field investigations of the sewer routes were completed to reduce the potential for utility conflicts and to ensure that the required ten feet of separation from water mains can be achieved.

The final component of this analysis was to evaluate the downstream capacity of the existing sewers. Our analysis determined that all of the existing sewers have adequate capacity to receive the additional flow from the Burlington Highlands sub-area.

For this analysis, the subject area was subdivided into smaller, more manageable sub-basins. The sub-basins were created using topography and projected sewer connection points.

The following are the proposed sub-basins:

Sub-basin	No. of Services	Layout	Cost Estimate
Morton and Downers	39	Table 4.5-1	Table 4.5-2
40 th and Seeley (North)	21	Table 4.5-3	Table 4.5-4
40 th and Northcott	14	Table 4.5-5	Table 4.5-6
Virginia-Seeley-Janet-Downers	43	Table 4.5-7	Table 4.5-8
Belle Aire and Venard	21	Table 4.5-9	Table 4.5-10
Venard Road (North)	10	Table 4.5-11	Table 4.5-12
Venard Road (South)	(completed)	<i>Table 4.5-13</i>	<i>Table 4.5-14</i>
Virginia Avenue (West)	6	Table 4.5-15	Table 4.5-16
Lacey-Carol-Northcott	1	Table 4.5-17	Table 4.5-18
Lacey and Janet	14	Table 4.5-19	Table 4.5-20
Ogden-Lacey-Grant-Lee (South)	18	Table 4.5-21	Table 4.5-22

Table 4.5-23 is a summary table of opinions of probable cost. A map of the proposed sewer plan is included in Exhibit 4.5.

The Morton and Downers sub-basin sewer plan follows the existing topography which falls from the intersection of Downers and Janet northwest to the creek crossing near Morton and I-88. In general, the sewer alignment on each street should be on the east side of the right-of-way because of the existing water main on the west side of the right-of-way. The existing sewer stub located at Herbert and Downers is too shallow to serve the subject area. The only feasible connection point is the trunk sewer located southeast of I-88. The sewer on Downers should extend west to Morton in a side yard easement along the creek north of 40th Street. This sub-basin is the second most costly per lot in Burlington Highlands due to the sewer easements that are required. Table 4.5-1 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.5-2 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$1,362,500, including contingency, engineering, easements, and legal/administrative costs.

The 40th and Seeley (North) sub-basin sewer plan also follows the existing topography which falls from Herbert and Seeley south to 40th Street and west to Downers. The sewer alignment on each street should be on the east side of the right-of-way on Seeley and the north side of 40th because of the existing water mains on the opposite sides of the right-of-way. Table 4.5-3 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.5-4 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$592,600, including contingency, engineering, and legal/administrative costs.

The 40th and Northcott sub-basin sewer plan includes the unsewered properties northeast of the ridge that runs from Virginia east of Lee to Janet west of Northcott. The sewer will flow north on Northcott to 40th and east along 40th to Downers Drive. Table 4.5-5 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.5-6 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$415,300, including contingency, engineering, and legal/administrative costs.

The Virginia-Seeley-Janet (South) sub-basin sewer plan follows the existing topography around the highpoint on Downers Dive by flowing east on Janet to Seeley, north to Virginia, and back west to Downers Drive. The proposed sewer must circle Downers Drive because the existing topography at Downers Drive and Janet Street would require a deep cut. Similar to other sub-basins, the sewer should be placed in the parkway opposite of the existing water main. A number of properties between Seeley and Belle Aire could be served by the existing sewer on Belle Aire, but it would require individual grinder pumps and force mains. In the past, the District has not allowed such connections. The proposed sewer on Seeley provides a much better way to serve these parcels by gravity. Table 4.5-7 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.5-8 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$1,122,000, including contingency, engineering, and legal/administrative costs.

The Belle Aire and Venard sub-basin sewer plan follows the same topography as the Morton and Downers sanitary sewer. All the properties on Belle Aire will flow towards Virginia Street while the sewer on Venard will flow to a low spot near the south end of the park. Similar to the Morton sewer, side yard easements should be obtained to connect Venard to Belle Aire. The required landscaping restoration and easements will be expensive, but the properties on Venard cannot be served by the existing sewer south of 4146 Venard Road or by a sewer on Drove Avenue. This sub-basin is the most costly per lot in Burlington Highlands due to the sewer easements and landscaping. Table 4.5-9 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.5-10 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$908,200, including contingency, engineering, easements, and legal/administrative costs.

The Venard Road (North) sub-basin sewer plan follows the existing District flow basin as the sewer should flow north on Venard to existing manhole V1-172 in front of 4003 Venard Road. This sewer will serve all remaining unsewered parcels north of Drove Avenue. The sewer should be placed in the east parkway between the edge-of-pavement and sidewalk. Table 4.5-11 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.5-12 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$365,800, including contingency, engineering, and legal/administrative costs.

Sanitary sewers are available to all parcels in The Venard Road (South) sub-basin as of March 2018. In 2017, approximately 88 feet of 8-inch sanitary sewer was installed with two service connections for a construction cost of \$9,916 to complete the sub-basin. In 2012, approximately 92 feet of 8-inch sanitary sewer and 2 services were constructed for a total price of \$20,000.

The Virginia Avenue (West) sub-basin sewer plan will follow the existing ridge on Virginia west to the existing manhole at 1653 Virginia Avenue. The sewer should be placed in the south right-of-way to avoid the existing water mains. Table 4.5-15 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.5-16 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$147,900, including contingency, engineering, and legal/administrative costs.

The Lacey-Carol-Northcott sub-basin sewer plan is for the address of 4219 Northcott Avenue. The best alternative is to follow the existing ground slope and connect to the manhole at 4211 Northcott Avenue. From there, the sewer will flow west on Carol Street and north on Lacey

Road. Since there is only one unsewered parcel in this basin, the project cost is high. Table 4.5-17 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.5-18 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$66,900, including contingency, engineering, and legal/administrative costs.

The Lacey and Janet sub-basin sewer plan will follow a similar drainage pattern as the sub-basin to the north. The sewer will flow west on Janet, connect to the existing manhole near 1747 Janet Street, and flow north on Lacey Road. The south right-of-way on Janet is the preferred alignment for the proposed sewer. Table 4.5-19 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.5-20 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$300,000, including contingency, engineering, and legal/administrative costs.

The Ogden-Lacey-Grant-Lee (South) sub-basin sewer plan follows the existing creek from south of Grant Street to Lacey north of Ogden. There are several potential connection points, but the existing sewer at Lacey is the only feasible alternative to serve the sub-basin because the existing manholes on Grant, Ogden, Stonewall, and Lee are too shallow. The sewers within the undeveloped property south of Ogden should be placed in utility easements. The construction cost for this sub-basin is expensive because of two reasons: the numerous easements required, and the required wetland permitting and restoration. In 2016, construction on the Packey-Webb facility was completed, eliminating a number of unsewered parcels in the sub-basin. In February 2020, Baxter & Woodman performed a special assessment evaluation on the entire Ogden-Lacey-Grant-Lee (South) sub-basin, with the exception of three parcels on the north side of Ogden Avenue. Construction on this special assessment area had not started as of March 2020. The cost per lot in the special assessment was nearly \$14,000 more than the cost per lot in this plan. This cost difference is due to the entire Ogden/Lacey/Grant/Lee (South) sub-basin needing to be built-out to service the special assessment study area. The cost per lot for the special assessment area did not include three unsewered lots along the north side of Ogden Avenue which have relatively easy and short lengths of sewer installation. Including these three easy-toconnect lots in the UAP causes the overall cost per lot to be lower than the special assessment. Table 4.5-21 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.5-22 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$2,459,700, including contingency, engineering, easements, and legal/administrative costs.

DOWNERS GROVE SANITARY DISTRICT UNSEWERED AREA PLAN

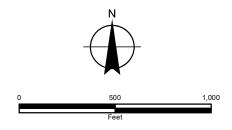
EXHIBIT 4.5

BURLINGTON HIGHLANDS POSSIBLE SEWER ALIGNMENT

MARCH 2020

LEGEND

- PROPOSED MANHOLES
 EXISTING MANHOLES
 PROPOSED SEWERS
 EXISTING SEWERS
 PARCEL BOUNDARIES
 MORTON AND DOWNERS; TABLES 4.5-1, 4.5-2
 40TH AND SEELEY (NORTH); TABLES 4.5-3, 4.5-4
- 40TH AND NORTHCOTT; TABLES 4.5-5, 4.5-6
 VIRGINIA-SEELEY-JANET-DOWNERS; TABLES 4.5-7, 4.5-8
- BELLE AIRE AND VENARD; TABLES 4.5-9, 4.5-10
- VENARD ROAD (NORTH); TABLES 4.5-11, 4.5-12
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- VIRGINIA AVENUE (WEST); TABLES 4.5-15, 4.5-16
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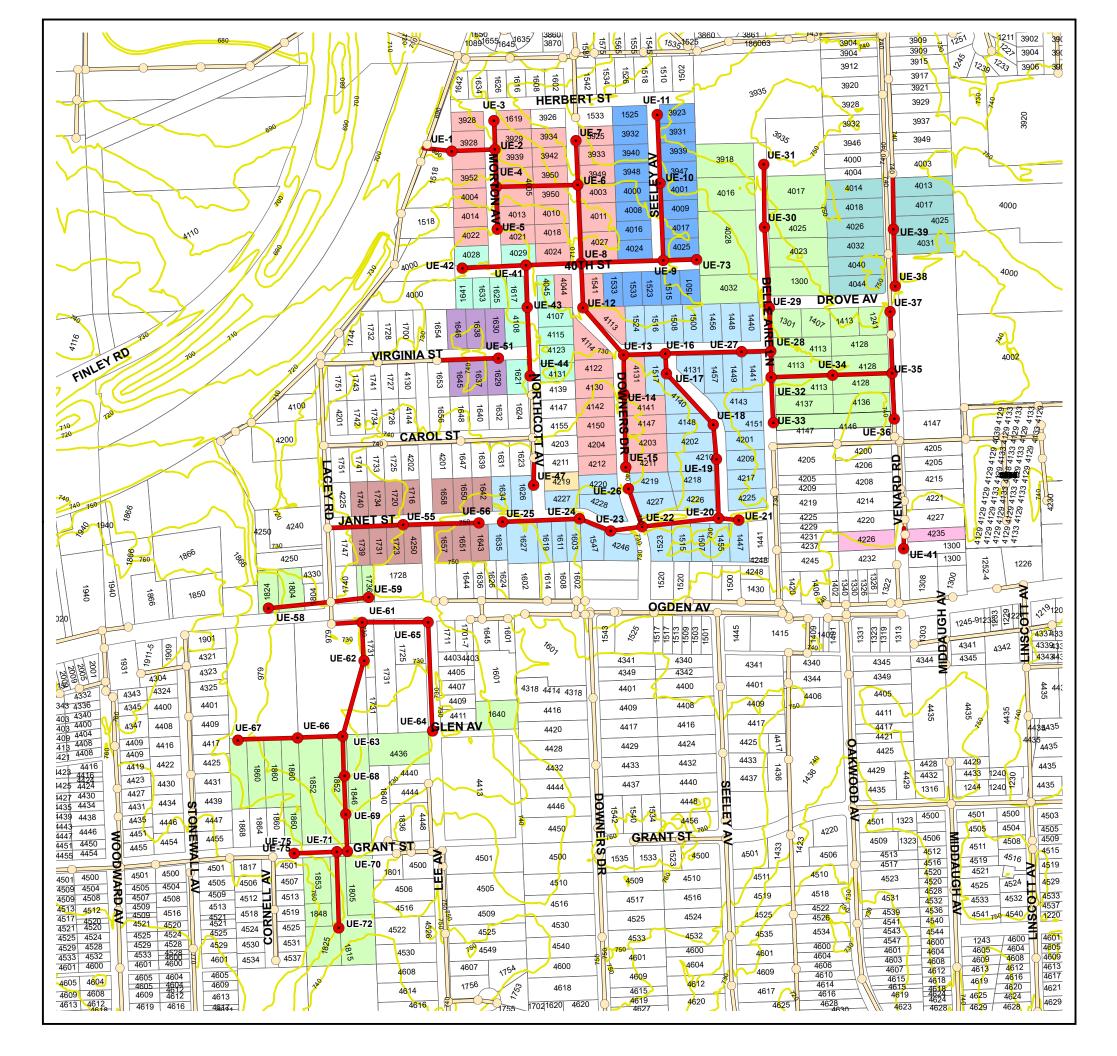


Table 4.5-1

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Morton and Downers

Preliminary Design Layout

Manhole Number	Rim	<u>Invert</u>	Length (ft)	<u>Slope</u>	Manhole <u>Depth</u>
Morton Avenue					
N-2-001 existing	690.2	685.00	400	4.000/	5.2
UE-1	694.5	686.00	100	1.00%	8.5
UE-2	698.5	688.25	225	1.00%	10.3
UE-3	705.5	694.95	150	3.00%	10.6
UE-4	703.3	690.45	220	1.00%	12.8
UE-5	720.0	707.45	220	5.00%	12.6
	720.0	707.43			12.0
<u>Downers Drive</u>					
UE-6	716.0	698.45	400	2.00%	17.6
UE-7	724.0	710.95	250	5.00%	13.1
UE-8	713.5	704.45	400	1.50%	9.0
UE-12	719.5	709.45	250	2.00%	10.1
UE-13	729.0	714.25	320	1.50%	14.8
			180	3.00%	
UE-14	738.0	719.65	400	2.50%	18.4
UE-15	741.0	729.65			11.4

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MAII			Quan	imate itity	Unit Price			Amount
	NLINE SEWER							
1	SANITARY SEWER (C	PEN CUT)						
	8-inch	0-8 feet deep	100	lin. ft.	\$	74.00	\$	7,400.00
		8-12 feet deep	1,295	lin. ft.	\$	86.00	<u>\$</u>	111,370.00
		12-16 feet deep	1,485	lin. ft.	\$	105.00	\$	155,925.00
		16-20 feet deep	235	lin. ft.	\$	126.00	\$	29,610.00
2	SANITARY MANHOLE	S						
	48-inch	0-8 feet deep	0	each	\$	4,800.00	\$	0.00
		8-12 feet deep	6	each	\$	6,300.00	\$ \$ \$	37,800.00
		12-16 feet deep	4	each	\$	7,600.00	\$	30,400.00
		16-20 feet deep	2	each	\$	10,200.00	\$	20,400.00
3	CONNECTION TO EX	STING MANHOLE						
	8-inch		1	each	\$	6,100.00	\$	6,100.00
4	TRENCH BACKFILL							
	8-inch	0-8 feet deep	0	lin. ft.	\$	92.00	\$	0.00
		8-12 feet deep	165	lin. ft.	\$	112.00	\$	18,480.00
		12-16 feet deep	520	lin. ft.	\$	136.00	\$	70,720.00
		16-20 feet deep	60	lin. ft.	\$	178.00	\$	10,680.00
5	TREE TUNNELING		110	lin. ft.	\$	190.00	\$	20,900.00
6	AUGER UNDER EXIS	TING BOX CULVERT	20	lin. ft.	\$	472.00	\$	9,440.00
7	SEWER TELEVISING	FOR FINAL INSPECTION	3,115	lin. ft.	\$	2.50	\$	7,787.50
8	SEWER TESTING FO	R FINAL INSPECTION	3,115	lin. ft.	\$	2.50	\$	7,788
9	CULVERT REMOVAL . 12-inch	AND REPLACEMENT	160	lin. ft.	\$	80.00	\$	12,800.00
10	RESTORATION OF LA Topsoil and sod	WNS AND PARKWAYS	5,000	sq.yd.	\$	14.00	\$	70,000.00
11	RESTORATION OF ST	REETS						
	Bit. Concrete Stree		85	sq.yd.	\$	63.00	\$	5,355.00
	PCC Sidewalk	•	2,500	sq. ft		13.00	\$	32,500.00
12	REMOVE AND REPLA	CE DRIVEWAYS						
	Bituminous		230	sq.yd.	\$	48.00	\$	11,040.00
	Concrete		120	sq.yd.		80.00	\$	9,600.00

No.	Pay Item	Approx Quai		Unit Price		Amount
13	TREE REMOVAL AND TRIMMING:			Lump Sum	\$	19,740.00
14	EROSION CONTROL:			Lump Sum	\$	13,160.00
15	TRAFFIC CONTROL:			Lump Sum	\$	13,160.00
	SUBTOTAL				\$	732,155.00
SEI	RVICE LATERALS					
1	BUILDING SERVICE LINES Near side Far side Riser Pipes	320 950 75	lin. ft. lin. ft. vert. ft.	\$ 49.00 \$ 49.00 \$ 47.00	\$ \$ \$	15,680.00 46,550.00 3,525.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	20 19	each each	\$ 548.00 \$ 675.00	\$	10,960.00 12,825.00
3	BUILDING SERVICE PLUG:	39	each	\$ 206.00	\$	8,034.00
4	RESTORATION OF LAWNS AND PARKWA Topsoil and sod	YS 490	sq.yd.	\$ 14.00	\$	6,860.00
5	RESTORATION OF STREETS: Bit. Concrete Street	340	sq.yd.	\$ 62.00	\$	21,080.00
6	TRENCH BACKFILL 8-12 feet deep	600	lin. ft.	\$ 82.00	\$	49,200
	SUBTOTAL				\$	174,714.00
	TOTAL ESTIMATE OF CONSTRUCTION	N COST			\$	906,900.00
	Contingencies (20%) Engineering (20%) Legal / Admin (6%) Easement Acquisition					\$181,400.00 \$181,400.00 \$76,200.00 \$16,600.00
	TOTAL OPINION OF PROBABLE COS	\$	1,362,500.00			
				Cost per lot		\$34,940.00

Table 4.5-3

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
40th and Seely (North)

Preliminary Design Layout

	Manhole Number	Rim	Invert	Length (ft)	Slope	Manhole <u>Depth</u>
40th Place						
	UE-8	713.5	704.45	405	0.700/	9.0
	UE-9	719.0	707.43	425	0.70%	11.6
	UE-73	722.0	712.23	160	3.00%	9.8
Seely Aven	<u>ue</u>					
				400	2.00%	
	UE-10	725.0	715.43	335	3.00%	9.6
	UE-11	736.0	725.48	230	2.2070	10.5

No.	Pay Item		Approxi Quan			Unit Price	Amount
	INLINE SEWER			,			,
1	SANITARY SEWER (O	DEN CUT)					
,	8-inch	0-8 feet deep	80	lin. ft.	\$	74.00	\$ 5,920.00
		8-12 feet deep	1,240	lin. ft.	\$	86.00	\$ 106,640.00
2	SANITARY MANHOLE	S					
	48-inch	0-8 feet deep	0	each	\$	4,800.00	\$ 0.00
		8-12 feet deep	4	each	\$	6,300.00	\$ 25,200.00
3	CONNECTION TO EXI	STING MANHOLE					
	8-inch		1	each	\$	6,100.00	\$ 6,100.00
4	TRENCH BACKFILL						
	8-inch	0-8 feet deep	50	lin. ft.	\$	92.00	\$ 4,600.00
		8-12 feet deep	402	lin. ft.	\$	112.00	\$ 45,024.00
5	TREE TUNNELING		80	lin. ft.	\$	190.00	\$ 15,200.00
6	SEWER TELEVISING	FOR FINAL INSPECTION	1,320	lin. ft.	\$	2.50	\$ 3,300.00
7	SEWER TESTING FOR	R FINAL INSPECTION	1,320	lin. ft.	\$	2.50	\$ 3,300
8	CULVERT REMOVAL	AND REPLACEMENT					
	12-inch		188	lin. ft.	\$	80.00	\$ 15,040.00
9	RESTORATION OF LA	WNS AND PARKWAYS					
	Topsoil and sod		1,895	sq.yd.	\$	14.00	\$ 26,530.00
10	RESTORATION OF ST	REETS					
	Bit. Concrete Stree	et	20	sq.yd.	\$	63.00	\$ 1,260.00
11	REMOVE AND REPLA	CE DRIVEWAYS					
	Bituminous		126	sq.yd.	\$	48.00	\$ 6,048.00
	Concrete		0	sq.yd.	\$	80.00	\$ 0.00
12	TREE REMOVAL AND	TRIMMING:			Lur	mp Sum	\$ 658.00

Table 4.5-4

Downers Grove Sanitary District

Proposed Special Assessment

40th and Seely (North)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxi Quan		Unit Price		Amount
13	EROSION CONTROL:			Lump Sum	\$	658.00
14	TRAFFIC CONTROL:			Lump Sum	\$	6,580.00
	SUBTOTAL				\$	272,058.00
SE	RVICE LATERALS					
1	BUILDING SERVICE LINES Near side Far side	378 1,008	lin. ft. lin. ft.	\$ 49.00 \$ 49.00	<u>\$</u>	18,522.00 49,392.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	9 12	each each	\$ 548.00 \$ 675.00	<u>\$</u>	4,932.00 8,100.00
3	BUILDING SERVICE PLUG:	21	each	\$ 206.00	\$	4,326.00
4	RESTORATION OF LAWNS AND PARKWA Topsoil and sod	AYS 500	sq.yd.	\$ 14.00	\$	7,000.00
5	RESTORATION OF STREETS: Bit. Concrete Street	168	sq.yd.	\$ 62.00	\$	10,416.00
6	TRENCH BACKFILL 8-12 feet deep	300	lin. ft.	\$ 82.00	\$	24,600.00
	SUBTOTAL				\$	127,288.00
	TOTAL ESTIMATE OF CONSTRUCTION	ON COST			\$	399,300.00
		Contingencies Engineering Legal / Admin	(20%) (20%) (6%)			\$79,900.00 \$79,900.00 \$33,500.00
	TOTAL OPINION OF PROBABLE COS	ST			\$	592,600.00
				Cost per lot		\$28,220.00

Table 4.5-5

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
40th and Northcott

Preliminary Design Layout

	Manhole Number	Rim	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
40th Place						
	UE-8	713.5	704.45			9.0
	UE-41	721.0	710.05	280	2.00%	10.9
	UE-42	729.0	716.05	300	2.00%	12.9
Northcott A	_					
NOTHICOLL F	<u>tvenue</u>			250	1.00%	
	UE-43	725.0	712.55	350	2.00%	12.4
	UE-44	731.0	719.55	23.0	=:5070	11.4

	5		Approxi			Unit		
No.	Pay Item		Quan	tity		Price		Amount
MA	INLINE SEWER							
1	SANITARY SEWER (O	PEN CUT)						
•	8-inch	0-8 feet deep	15	lin. ft.	\$	74.00	\$	1,110.00
		8-12 feet deep	1,025	lin. ft.	\$	86.00	\$	88,150.00
		12-16 feet deep	140	lin. ft.	\$	105.00	\$	14,700.00
2	SANITARY MANHOLE	S						
	48-inch	0-8 feet deep	0	each	\$	4,800.00	\$	0.00
		8-12 feet deep	4	each	\$	6,300.00	\$	25,200.00
		12-16 feet deep	0	each	\$	7,600.00	\$	0.00
3	CONNECTION TO EXI	STING MANHOLE						
	8-inch		1	each	\$	6,100.00	\$	6,100.00
4	TRENCH BACKFILL							
	8-inch	0-8 feet deep	0	lin. ft.	\$	92.00	\$	0.00
		8-12 feet deep	239	lin. ft.	\$	112.00	\$ \$	26,768.00
		12-16 feet deep	15	lin. ft.	\$	136.00	\$	2,040.00
5	TREE TUNNELING		50	lin. ft.	\$	190.00	\$	9,500.00
6	SEWER TELEVISING	FOR FINAL INSPECTION	1,180	lin. ft.	\$	2.50	\$	2,950.00
7	SEWER TESTING FOR	R FINAL INSPECTION	1,180	lin. ft.	\$	2.50	\$	2,950
8	CULVERT REMOVAL	AND REPLACEMENT						
	12-inch		30	lin. ft.	\$	80.00	\$	2,400.00
9	RESTORATION OF LA	WNS AND PARKWAYS						
	Topsoil and sod		1,692	sq.yd.	\$	14.00	\$	23,688.00
10	RESTORATION OF ST	REETS						
	Bit. Concrete Stree	et	39	sq.yd.	\$	63.00	\$	2,457.00
	PCC Sidewalk		0	sq. ft.	\$	13.00	\$	0.00
11	REMOVE AND REPLA	CE DRIVEWAYS						
	Bituminous		29	sq.yd.	\$	48.00	<u>\$</u>	1,392.00
	Concrete		0	sq.yd.	\$	80.00	\$	0.00
12	TREE REMOVAL AND	TRIMMING:			Lur	mp Sum	\$	658.00

Table 4.5-6

Downers Grove Sanitary District

Proposed Special Assessment

40th and Northcott

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxi Quan		Unit Price		Amount
13	EROSION CONTROL:	<u> </u>	,	Lump Sum	\$	658.00
	TRAFFIC CONTROL:			Lump Sum	\$	5,922.00
	SUBTOTAL			Zump Gum	\$	216,643.00
O.F.I					Ψ	210,040.00
SEI	RVICE LATERALS					
1	BUILDING SERVICE LINES Near side Far side	75 459	lin. ft. lin. ft.	\$ 49.00 \$ 49.00	\$	3,675.00 22,491.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	5 9	each each	\$ 548.00 \$ 675.00	\$	2,740.00 6,075.00
3	BUILDING SERVICE PLUG:	14	each	\$ 206.00	\$	2,884.00
4	RESTORATION OF LAWNS AND PARKWA' Topsoil and sod	YS 281	sq.yd.	\$ 14.00	\$	3,934.00
5	RESTORATION OF STREETS: Bit. Concrete Street	132	sq.yd.	\$ 62.00	\$	8,184.00
6	TRENCH BACKFILL 0-8 feet deep	216	lin. ft.	\$ 61.00	\$	13,176.00
	SUBTOTAL				\$	63,159.00
	TOTAL ESTIMATE OF CONSTRUCTIO	N COST			\$	279,800.00
		Contingencies Engineering Legal / Admin	(20%) (20%) (6%)			\$56,000.00 \$56,000.00 \$23,500.00
	TOTAL OPINION OF PROBABLE COST	Г			\$	415,300.00
				Cost per lot		\$29,660.00

Table 4.5-7

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Virginia-Seeley-Janet-Downers

Preliminary Design Layout

<u>Mar</u>	nhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	<u>Slope</u>	Manhole <u>Depth</u>
Virginia Street						
	UE-13	729.0	714.25	000	0.400/	14.8
	UE-16	726.0	715.05	200	0.40%	11.0
	UE-27	725.5	716.65	400	0.40%	8.9
	UE-28	728.0	717.31	165	0.40%	10.7
Seeley Avenue						
	UE-17	726.0	715.49	110	0.40%	10.5
	UE-18	728.0	716.83	335	0.40%	11.2
	UE-19	727.0	717.59	190	0.40%	9.4
	UE-20	728.0	718.87	320	0.40%	9.1
Janet Street						• • •
<u>odnot Gtroot</u>				100	1.00%	
	UE-21	730.0	719.87	400	0.40%	10.1
	UE-22	730.0	720.47			9.5
	UE-23	736.0	722.07	160	1.00%	13.9
	UE-24	740.0	726.57	150	3.00%	13.4
	UE-25	752.0	738.57	400	3.00%	13.4
Downers Drive						
	UE-26	736.0	722.97	250	1.00%	13.0

No.	Pay Item		Approx Quar		Unit Price		Amount
MA	INLINE SEWER			·			
1	SANITARY SEWER (O	PEN CUT)					
•	8-inch	0-8 feet deep	720	lin. ft.	\$	74.00	\$ 53,280.00
		8-12 feet deep	2,460	lin. ft.	\$	86.00	\$ 211,560.00
2	SANITARY MANHOLES	3					
	48-inch	0-8 feet deep	4	each	\$	4,800.00	\$ 19,200.00
		8-12 feet deep	9	each	\$	6,300.00	\$ 56,700.00
3	CONNECTION TO EXIS	STING MANHOLE					
	8-inch		1	each	\$	6,100.00	\$ 6,100.00
4	TRENCH BACKFILL						
-	8-inch	0-8 feet deep	86	lin. ft.	\$	92.00	\$ 7,912.00
		8-12 feet deep	796	lin. ft.	\$	112.00	\$ 89,152.00
5	TREE TUNNELING		90	lin. ft.	\$	190.00	\$ 17,100.00
6	SEWER TELEVISING F	FOR FINAL INSPECTION	3,180	lin. ft.	\$	2.50	\$ 7,950.00
7	SEWER TESTING FOR	R FINAL INSPECTION	3,180	lin. ft.	\$	2.50	\$ 7,950
8	CULVERT REMOVAL A	AND REPLACEMENT					
	12-inch		205	lin. ft.	\$	80.00	\$ 16,400.00
9	RESTORATION OF LA	WNS AND PARKWAYS					
	Topsoil and sod		4,312	sq.yd.	\$	14.00	\$ 60,368.00
10	RESTORATION OF ST	REETS					
	Bit. Concrete Stree	t	109	sq.yd.	\$	63.00	\$ 6,867.00
	PCC Sidewalk		50	sq. ft.	\$	13.00	\$ 650.00
11	REMOVE AND REPLACE	CE DRIVEWAYS					
	Bituminous		268	sq.yd.	\$	48.00	\$ 12,864.00
	Concrete		0	sq.yd.	\$	80.00	\$ 0.00
12	TREE REMOVAL AND	TRIMMING:			Lur	mp Sum	\$ 1,316.00

No.	Pay Item	Approx Quar		Unit Price	Amount
13	EROSION CONTROL:			Lump Sum	\$ 1,316.00
14	TRAFFIC CONTROL:			Lump Sum	\$ 13,160.00
	SUBTOTAL				\$ 589,845.00
SEI	RVICE LATERALS				
1	BUILDING SERVICE LINES Near side Far side	375 918	lin. ft. lin. ft.	\$ 49.00 \$ 49.00	 18,375.00 44,982.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	25 18	each each	\$ 548.00 \$ 675.00	 13,700.00 12,150.00
3	BUILDING SERVICE PLUG:	43	each	\$ 206.00	\$ 8,858.00
4	RESTORATION OF LAWNS AND PARKWAYS Topsoil and sod	878	sq.yd.	\$ 14.00	\$ 12,292.00
5	RESTORATION OF STREETS: Bit. Concrete Street	252	sq.yd.	\$ 62.00	\$ 15,624.00
6	TRENCH BACKFILL 8-12 feet deep	486	lin. ft.	\$ 82.00	\$ 39,852.00
7	REMOVE AND REPLACE DRIVEWAYS Bituminous	10	sq. yd.	\$ 47.00	\$ 470.00
	SUBTOTAL				\$ 166,303.00
	TOTAL ESTIMATE OF CONSTRUCTION	COST			\$ 756,100.00
	1	entingencies Engineering egal / Admin	(20%) (20%) (6%)		\$151,200.00 \$151,200.00 \$63,500.00
	TOTAL OPINION OF PROBABLE COST				\$ 1,122,000.00
				Cost per lot	\$26,090.00

Table 4.5-9

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Belle Aire and Venard

Preliminary Design Layout

-	- ,					Manhole
<u>Ma</u>	anhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	<u>Slope</u>	<u>Depth</u>
Belle Aire Lan	<u>e</u>					
	UE-28	728.0	717.31	235	0.80%	10.7
	UE-29	732.0	719.19			12.8
	UE-30	736.0	723.19	400	1.00%	12.8
	UE-31	744.0	730.39	360	2.00%	13.6
	UE-32	728.0	717.83	130	0.40%	10.2
				280	2.00%	
	UE-33	736.0	723.43			12.6
Backyard Eas	<u>ement</u>			330	0.40%	
	UE-34	730.0	719.15			10.9
	UE-35	735.0	721.71	320	0.80%	13.3
Venard Road						
				270	2.00%	
	UE-36	738.0	727.11			10.9
	UE-37	738.0	727.71	300	2.00%	10.3

Table 4.5-10

Downers Grove Sanitary District

Proposed Special Assessment

Belle Aire and Venard

Engineer's Opinion of Probable Construction Cost

	5 1		Approx					
No.	Pay Item		Quar	ntity		Price		Amount
MA	INLINE SEWER							
1	SANITARY SEWER (OF 8-inch	PEN CUT) 0-8 feet deep 8-12 feet deep	150 2,475	lin. ft. lin. ft.	\$ \$	74.00 86.00	\$ \$	11,100.00 212,850.00
2	SANITARY MANHOLES 48-inch	O-8 feet deep 8-12 feet deep	0 9	each each	\$ \$	4,800.00 6,300.00	\$	0.00 56,700.00
3	CONNECTION TO EXIS 8-inch	STING MANHOLE	1	each	\$	6,100.00	\$	6,100.00
4	TRENCH BACKFILL 8-inch	0-8 feet deep 8-12 feet deep	0 758	lin. ft. lin. ft.	\$	92.00 112.00	\$ \$	0.00 84,896.00
5	TREE TUNNELING		90	lin. ft.	\$	190.00	\$	17,100.00
6	SEWER TELEVISING F	OR FINAL INSPECTION	2,625	lin. ft.	\$	2.50	\$	6,562.50
7	SEWER TESTING FOR	FINAL INSPECTION	2,625	lin. ft.	\$	2.50	\$	6,563
8	CULVERT REMOVAL A 12-inch	ND REPLACEMENT	20	lin. ft.	\$	80.00	\$	1,600.00
9	RESTORATION OF LAY Topsoil and sod	WNS AND PARKWAYS	3,536	sq.yd.	\$	14.00	\$	49,504.00
10	RESTORATION OF ST Bit. Concrete Street PCC Sidewalk		530 50	sq.yd. sq. ft.	\$ \$	63.00 13.00	\$ \$	33,390.00 650.00
11	REMOVE AND REPLACE Bituminous Concrete	CE DRIVEWAYS	167 15	sq.yd. sq.yd.	\$ \$	48.00 80.00	\$	8,016.00 1,200.00
12	TREE REMOVAL AND	TRIMMING:			Lun	np Sum	\$	16,450.00
13	EROSION CONTROL:				Lun	np Sum	\$	9,870.00

Table 4.5-10

Downers Grove Sanitary District

Proposed Special Assessment

Belle Aire and Venard

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approx Quar		Unit Price			Amount
14	TRAFFIC CONTROL:			Lum	p Sum	\$	9,870.00
	SUBTOTAL					\$	532,421.00
SEI	RVICE LATERALS						
1	BUILDING SERVICE LINES Near side Far side	225 306	lin. ft. lin. ft.	\$ \$	49.00 49.00	\$	11,025.00 14,994.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	15 6	each each	\$ \$	548.00 675.00	\$ \$	8,220.00 4,050.00
3	BUILDING SERVICE PLUG:	21	each	\$	206.00	\$	4,326.00
4	RESTORATION OF LAWNS AND PARKW Topsoil and sod	AYS 367	sq.yd.	\$	14.00	\$	5,138.00
5	RESTORATION OF STREETS: Bit. Concrete Street	84	sq.yd.	\$	62.00	\$	5,208.00
6	TRENCH BACKFILL 0-8 feet deep	162	lin. ft.	\$	61.00	\$	9,882.00
	SUBTOTAL					\$	62,843.00
	TOTAL ESTIMATE OF CONSTRUCTI	ON COST				\$	595,300.00
		Contingencies (20%) Engineering (20%) Legal / Admin (6%) Easement Acquisition					\$119,100.00 \$119,100.00 \$50,000.00 \$24,700.00
	TOTAL OPINION OF PROBABLE COS	ST				\$	908,200.00
				Co	ost per lot		\$43,250.00

Table 4.5-11

Possible Special Assessment for Sanitary Sewers
Burlington Highlands
Venard Road (North)

Preliminary Design Layout

<u>N</u>	lanhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
Venard Road	<u>d</u>					
V	/1-172 (existing)	742.0	734.24	300	0.40%	7.8
	UE-39	746.0	735.44			10.6
	UE-38	746.0	736.64	300	0.40%	9.4

			Approx			Unit		
No.	Pay Item		Quar	ntity		Price		Amount
MA	INLINE SEWER							
1	SANITARY SEWER (OI	*						
	8-inch	0-8 feet deep 8-12 feet deep	150 450	lin. ft. lin. ft.	<u>\$</u> \$	74.00 86.00	<u>\$</u> \$	11,100.00 38,700.00
2	SANITARY MANHOLES	3						
_	48-inch	0-8 feet deep	0	each	\$	4,800.00	\$	0.00
		8-12 feet deep	2	each	\$	6,300.00	\$	12,600.00
3	CONNECTION TO EXIS	STING MANHOLE						
	8-inch		1	each	\$	6,100.00	\$	6,100.00
4	TRENCH BACKFILL				_		_	
	8-inch	0-8 feet deep	150	lin. ft.	<u>\$</u> \$	92.00	<u>\$</u> \$	13,800.00
		8-12 feet deep	450	lin. ft.	<u> </u>	112.00	Φ	50,400.00
5	TREE TUNNELING		0	lin. ft.	\$	190.00	\$	0.00
6	SEWER TELEVISING F	FOR FINAL INSPECTION	600	lin. ft.	\$	2.50	\$	1,500.00
7	SEWER TESTING FOR	R FINAL INSPECTION	600	lin. ft.	\$	2.50	\$	1,500
8	CULVERT REMOVAL A 12-inch	AND REPLACEMENT	40	lin. ft.	\$	80.00	\$	3,200.00
9	RESTORATION OF LA	WNS AND PARKWAYS						
	Topsoil and sod		1,333	sq.yd.	\$	14.00	\$	18,662.00
10	RESTORATION OF ST		0		Ф	C2 00	ф	0.00
	Bit. Concrete Stree PCC Sidewalk	l	0 2,000	sq.yd. sq. ft.	<u>\$</u> \$	63.00 13.00	<u>\$</u> \$	26,000.00
			2,000	oq. 1t.	Ψ	10.00	Ψ	20,000.00
11	REMOVE AND REPLACE Bituminous	CE DRIVEWAYS	142	sq.yd.	\$	48.00	Φ.	6,816.00
	Concrete		27	sq.yd.	\$	80.00	\$ \$	2,160.00
12	TREE REMOVAL AND	TRIMMING:			Lur	mp Sum	\$	329.00
13	EROSION CONTROL:				Lur	mp Sum	\$	329.00

Table 4.5-12

Downers Grove Sanitary District

Proposed Special Assessment

Venard Road (North)

Engineer's Opinion of Probable Construction Cost

		Approx		Un		
No.	Pay Item	Quar	itity	Pric	e	Amount
14	TRAFFIC CONTROL:			Lump Su	m	\$ 8,554.00
	SUBTOTAL					\$ 201,750.00
SE	RVICE LATERALS					
1	BUILDING SERVICE LINES Near side Far side	60 306	lin. ft. lin. ft.		9.00	\$ 2,940.00 14,994.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	4	each each		8.00	\$ 2,192.00 4,050.00
3	BUILDING SERVICE PLUG:	10	each	\$ 20	6.00	\$ 2,060.00
4	RESTORATION OF LAWNS AND PARKWA Topsoil and sod	AYS 244	sq.yd.	\$ 1	4.00	\$ 3,416.00
5	RESTORATION OF STREETS: Bit. Concrete Street	84	sq.yd.	\$ 6	2.00	\$ 5,208.00
6	TRENCH BACKFILL 0-8 feet deep	162	lin. ft.	\$ 6	1.00	\$ 9,882.00
	SUBTOTAL					\$ 44,742.00
	TOTAL ESTIMATE OF CONSTRUCTION	ON COST				\$ 246,500.00
		Contingencies Engineering Legal / Admin	(20%) (20%) (6%)			\$49,300.00 \$49,300.00 \$20,700.00
	TOTAL OPINION OF PROBABLE COS	ST				\$ 365,800.00
				Cost po	er lot	\$36,580.00

Table 4.5-13

Possible Special Assessment for Sanitary Sewers
Burlington Highlands
Venard Road (South)

Preliminary Design Layout

Manhole NumberRimInvertLength (ft)SlopeDepth

(Sanitary sewers are available as of March 2018.)

Table 4.5-14

Downers Grove Sanitary District

Proposed Special Assessment

Venard Road (South)

Engineer's Opinion of Probable Construction Cost

		Approximate	Unit	
No.	Pay Item	Quantity	Price	Amount

(Sanitary sewers are available as of March 2018.)

Table 4.5-14

Downers Grove Sanitary District

Proposed Special Assessment

Venard Road (South)

Engineer's Opinion of Probable Construction Cost

		Approximate	Unit	
No.	Pay Item	Quantity	Price	Amount

(Sanitary sewers are available as of March 2018.)

Table 4.5-15

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Virginia Avenue (West)

Preliminary Design Layout

Manhole Number	Rim	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
<u>Virginia Street</u>					
SA-N-1-138	732.4	720.69	220	2.500/	11.7
UE-51	738.0	728.94	330	2.50%	9.1

Table 4.5-16

Downers Grove Sanitary District

Proposed Special Assessment

Virginia Avenue (West)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item		Approx Qua			Unit Price		Amount
MA	INLINE SEWER							
1	SANITARY SEWER (O 8-inch	PEN CUT) 8-12 feet deep 12-16 feet deep	80 250	lin. ft. lin. ft.	\$	86.00 105.00	\$	6,880.00 26,250.00
2	SANITARY MANHOLES 48-inch	S 8-12 feet deep 12-16 feet deep	1	each each	\$ \$	6,300.00 7,600.00	<u>\$</u>	6,300.00 0.00
3	CONNECTION TO EXISTENCE 8-inch	STING MANHOLE	1	each	\$	6,100.00	\$	6,100.00
4	TRENCH BACKFILL 8-inch	8-12 feet deep 12-16 feet deep	20 40	lin. ft. lin. ft.	\$ \$	112.00 136.00	\$ \$	2,240.00 5,440.00
5	TREE TUNNELING		0	lin. ft.	\$	190.00	\$	0.00
6	SEWER TELEVISING F	FOR FINAL INSPECTION	330	lin. ft.	\$	2.50	\$	825.00
7	SEWER TESTING FOR	R FINAL INSPECTION	330	lin. ft.	\$	2.50	\$	825.00
8	CULVERT/STORM REI 12-inch	MOVAL AND REPLACEME	ENT 60	lin. ft.	\$	80.00	\$	4,800.00
9	RESTORATION OF LA Topsoil and sod	WNS AND PARKWAYS	890	sq.yd.	\$	14.00	\$	12,459.58
10	RESTORATION OF ST Bit. Concrete Stree PCC Sidewalk		0	sq.yd. sq. ft.	\$	63.00 13.00	\$	0.00 0.00
11	REMOVE AND REPLACE Bituminous Aggregate	CE DRIVEWAYS	28 14	sq.yd. sq.yd.	\$	48.00 20.00	<u>\$</u>	1,365.33 284.44
12	TREE REMOVAL AND	TRIMMING:			Lun	np Sum	\$	329.00
13	EROSION CONTROL:				Lum	np Sum	\$	329.00

Table 4.5-16

Downers Grove Sanitary District

Proposed Special Assessment

Virginia Avenue (West)

Engineer's Opinion of Probable Construction Cost

Na	Day Mare	Approx		Unit		A
No.	Pay Item	Qua	ntity	Price		Amount
14	TRAFFIC CONTROL:			Lump Sum	\$	1,316.00
	SUBTOTAL				\$	75,743.36
SEI	RVICE LATERALS					
1	BUILDING SERVICE LINES Near side Far side	39 159	lin. ft. lin. ft.	\$ 49.00 \$ 49.00	\$ \$	1,911.00 7,791.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	3	each each	\$ 548.00 \$ 675.00	\$ \$	1,644.00 2,025.00
3	BUILDING SERVICE PLUG:	6	each	\$ 206.00	\$	1,236.00
4	RESTORATION OF LAWNS AND PARKWAY Topsoil and sod	′S 143	sq.yd.	\$ 14.00	\$	2,006.67
5	RESTORATION OF STREETS: Bit. Concrete Street	48	sq.yd.	\$ 62.00	\$	2,976.00
6	TRENCH BACKFILL 0-8 feet deep	72	lin. ft.	\$ 61.00	\$	4,392.00
	SUBTOTAL				\$	23,981.67
	TOTAL ESTIMATE OF CONSTRUCTION	N COST			\$	99,700.00
		ontingencies Engineering egal / Admin	(20%) (20%) (6%)			\$19,900.00 \$19,900.00 \$8,400.00
	TOTAL OPINION OF PROBABLE COST				\$	147,900.00
				Cost per lot		\$24,650.00

Table 4.5-17

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Lacey-Carol-Northcott

Preliminary Design Layout

Manhole Number	Rim	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
Northcott Avenue					
SA-N-1-143	739.5	729.20	4.40	4.500/	10.3
UE-47	741.0	731.30	140	1.50%	9.7

Table 4.5-18

Downers Grove Sanitary District

Proposed Special Assessment

Lacey-Carol-Northcott

Engineer's Opinion of Probable Construction Cost

				rimate		Unit		
No.	Pay Item		Qua	ntity		Price		Amount
MA	INLINE SEWER							
1	SANITARY SEWER (OF	PEN CUT)						
-	8-inch	0-8 feet deep	40	lin. ft.	\$	74.00	\$	2,960.00
		8-12 feet deep	100	lin. ft.	\$	86.00	\$	8,600.00
2	SANITARY MANHOLES	3						
_	48-inch	0-8 feet deep	1	each	\$	3,500.00	\$	3,500.00
3	CONNECTION TO EXIS	STING MANHOLE						
3	8-inch	STING WANHOLE	1	each	\$	6,100.00	\$	6,100.00
					-	<u>, </u>		,
4	TRENCH BACKFILL 8-inch	12-16 feet deep	15	lin. ft.	\$	136.00	\$	2,040.00
	0-111011	12-10 leet deep	10	III I. IL.	Ψ	130.00	Ψ	2,040.00
5	TREE TUNNELING		0	lin. ft.	\$	190.00	\$	0.00
6	SEWER TELEVISING F	OR FINAL INSPECTION	140	lin. ft.	\$	2.50	\$	350.00
7	SEWER TESTING FOR	FINAL INSPECTION	140	lin. ft.	<u>\$</u>	2.50	\$	350.00
8	CULVERT REMOVAL A	ND REPLACEMENT						
	12-inch		0	lin. ft.	\$	80.00	\$	0.00
9	RESTORATION OF LAV	WNS AND PARKWAYS						
	Topsoil and sod		194	sq.yd.	\$	14.00	\$	2,722.22
10	RESTORATION OF STI	REETS						
.0	Bit. Concrete Street	_	20	sq.yd.	\$	63.00	\$	1,232.00
11	REMOVE AND REPLAC	SE DRIVEWAYS						
11	Bituminous	DINIVEVATO	14	sq.yd.	\$	48.00	\$	682.67

No.	Pay Item	Approx Qua		Unit Price		Amount
12	REMOVE AND REPLACE AGGREGATE DITCH	78	sq.yd.	\$ 20.00	\$	1,555.56
13	TREE REMOVAL AND TRIMMING:			Lump Sum	\$	329.00
14	EROSION CONTROL			Lump Sum	\$	329.00
15	TRAFFIC CONTROL			Lump Sum	\$	1,316.00
	SUBTOTAL				\$	32,066.44
SEI 1	RVICE LATERALS BUILDING SERVICE LINES					
	Near side	0	lin. ft.	\$ 49.00	\$	0.00
	Far side	1	lin. ft.	\$ 49.00	\$	49.00
2	BUILDING SERVICE BRANCH FITTINGS					
	Near Side	0	each	\$ 548.00	\$	0.00
	Far side	1	each	\$ 675.00	\$	675.00
3	BUILDING SERVICE PLUG:	1	each	\$ 62.00	\$	62.00
4	RESTORATION OF LAWNS AND PARKWAYS Topsoil and sod	73	sq.yd.	\$ 14.00	\$	1,026.67
5	RESTORATION OF STREETS:	450		Ф 02.00	Ф	0.070.00
	Bit. Concrete Street	156	sq.yd.	\$ 62.00	\$	9,672.00
6	TRENCH BACKFILL 0-8 feet deep	26	lin. ft.	\$ 61.00	\$	1,586.00
	·			·		
	SUBTOTAL				\$	13,070.67
	TOTAL ESTIMATE OF CONSTRUCTION C	OST			\$	45,100.00
		ngencies	(20%)			\$9,000.00
		gineering	(20%)			\$9,000.00
	Lega	l / Admin	(6%)			\$3,800.00
	TOTAL ESTIMATE OF COST				\$	66,900.00
				Cost per lot	\$	66,900.00

Table 4.5-19

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Lacey and Janet

Preliminary Design Layout

	Manhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	<u>Slope</u>	Manhole <u>Depth</u>
Lacey Roa	<u>d</u>					
(existing)	SA-N-1-134	724.3	711.86			12.4
Janet Stree	<u>et</u>					
				400	1.20%	
	UE-55	730.0	716.66	400	0.80%	13.3
	UE-56	730.0	719.86			10.1

Table 4.5-20

Downers Grove Sanitary District

Proposed Special Assessment

Lacey and Janet

Engineer's Opinion of Probable Construction Cost

	Day Itom		Approximate			Unit	A
No.	Pay Item		Quar	itity		Price	Amount
MA	INLINE SEWER						
1	SANITARY SEWER (O	PEN CUT)					
	8-inch	8-12 feet deep	40	lin. ft.	\$	86.00	\$ 3,440.00
		12-16 feet deep	720	lin. ft.	\$	105.00	\$ 75,600.00
		16-20 feet deep	40	lin. ft.	\$	126.00	\$ 5,040.00
2	SANITARY MANHOLE	S					
	48-inch	8-12 feet deep	2	each	\$	6,300.00	\$ 12,600.00
		12-16 feet deep	0	each	\$	7,600.00	\$ 0.00
		16-20 feet deep	0	each	\$	10,200.00	\$ 0.00
3	CONNECTION TO EXI	STING MANHOLE					
	8-inch		1	each	\$	6,100.00	\$ 6,100.00
4	TRENCH BACKFILL						
	8-inch	8-12 feet deep	0	lin. ft.	\$	112.00	\$ 0.00
		12-16 feet deep	128	lin. ft.	\$	136.00	\$ 17,408.00
		16-20 feet deep	0	lin. ft.	\$	178.00	\$ 0.00
5	TREE TUNNELING		22	lin. ft.	\$	190.00	\$ 4,180.00
6	SEWER TELEVISING	FOR FINAL INSPECTION	800	lin. ft.	\$	2.50	\$ 2,000.00
7	SEWER TESTING FOR	R FINAL INSPECTION	800	lin. ft.	\$	2.50	\$ 2,000.00
8	CULVERT REMOVAL	AND REPLACEMENT					
ŭ	12-inch		0	lin. ft.	\$	80.00	\$ 0.00
9	RESTORATION OF LA	WNS AND PARKWAYS					
	Topsoil and sod		107	sq.yd.	\$	14.00	\$ 1,498.00
10	RESTORATION OF ST	REETS					
	Bit. Concrete Stree	et	27	sq.yd.	\$	63.00	\$ 1,701.00
11	REMOVE AND REPLA	CE DRIVEWAYS					
	Bituminous		98	sq.yd.	\$	48.00	\$ 4,704.00
12	TREE REMOVAL AND	TRIMMING:			Lu	mp Sum	\$ 987.00

Table 4.5-20

Downers Grove Sanitary District

Proposed Special Assessment

Lacey and Janet

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approx Quar		Unit Price		Amount
13	EROSION CONTROL:			Lump Sum	\$	658.00
14	TRAFFIC CONTROL:			Lump Sum	\$	4,606.00
	SUBTOTAL				\$	142,522.00
SEI	RVICE LATERALS					
1	BUILDING SERVICE LINES Near side Far side	105 357	lin. ft. lin. ft.	\$ 49.00 \$ 49.00	\$	5,145.00 17,493.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	7 7	each each	\$ 548.00 \$ 675.00	\$ \$	3,836.00 4,725.00
3	BUILDING SERVICE PLUG:	14	each	\$ 206.00	\$	2,884.00
4	RESTORATION OF LAWNS AND PARKWAY Topsoil and sod		sq.yd.	\$ 14.00	\$	4,900.00
5	RESTORATION OF STREETS: Bit. Concrete Street	103	sq.yd.	\$ 62.00	\$	6,386.00
6	TRENCH BACKFILL 8-12 feet deep	175	lin. ft.	\$ 82.00	\$	14,350.00
	SUBTOTAL				\$	59,719.00
	TOTAL ESTIMATE OF CONSTRUCTION	COST			\$	202,200.00
		ontingencies Engineering egal / Admin				\$40,400.00 \$40,400.00 \$17,000.00
	TOTAL OPINION OF PROBABLE COST				\$	300,000.00
				Cost per lot		\$21,430.00

Table 4.5-21

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Ogden-Lacey-Grant-Lee (South)

Preliminary Design Layout

i i Cilillillai	y Design Layout					Manhole
	Manhole Number	Rim	<u>Invert</u>	Length (ft)	<u>Slope</u>	<u>Depth</u>
Lacey Road	<u>d</u>					
(existing)	SA-N-1-135	728.0	713.37			14.6
Ogden Ave	<u>nue</u>					
				300	3.00%	4= 0
	UE-58	740.0	722.37	215	3.00%	17.6
	UE-59	740.0	719.82			20.2
(existing)	SA-N-1-136	730.3	713.83			16.4
	UE-61	730.0	714.55	180	0.40%	15.4
	UE-65	739.0	715.80	250	0.50%	23.2
		739.0	7 15.60			23.2
Ogden Ave	<u>nue Farms</u>					
	UE-62	730.0	717.55	300	1.00%	12.4
				280	0.40%	
	UE-63	729.0	718.67	350	2.50%	10.3
	UE-66	736.0	727.42	300	3.00%	8.6
	UE-67	746.0	736.42			9.6
	UE-68	731.0	720.27	400	0.40%	10.7
	UE-69	729.0	720.75	120	0.40%	8.2
	UE-70	740.0	728.55	260	3.00%	11.4
				65	2.00%	
	UE-71	742.0	729.85	400	2.50%	12.2
	UE-72	749.0	739.85	220	4.00%	9.1
	UE-75	755.0	739.35	220	1.0070	15.7
Lee Avenue	<u>9</u>			000	0.50%	
	UE-64	730.0	718.80	600	0.50%	11.2

No.	Pay Item		Approx Qua			Unit Price		Amount
	•		Qua	·······y		1 1100		, unodin
MA	INLINE SEWER							
1	SANITARY SEWER (OF	PEN CUT)						
	8-inch	0-8 feet deep	0	lin. ft.	\$	74.00	\$	\$0
		8-12 feet deep	2,184	lin. ft.	\$	86.00	\$ \$ \$	\$187,824
		12-16 feet deep	1,184	lin. ft.	\$	105.00	\$	\$124,320
		16-20 feet deep	683	lin. ft.	\$	126.00	\$	\$86,058
2	SANITARY MANHOLES							
	48-inch	0-8 feet deep	0	each	\$	4,800.00	\$	\$0
		8-12 feet deep	8	each	\$	6,300.00	\$	\$50,400
		12-16 feet deep	5	each	\$	7,600.00	\$	\$38,000
		16-20 feet deep	2	each	\$	10,200.00	\$	\$20,400
3	CONNECTION TO EXIS	STING MANHOLE						
	8-inch		3	each	\$	6,100.00	\$	\$18,300
4	TRENCH BACKFILL							
	8-inch	0-8 feet deep	0	lin. ft.	\$	92.00	\$	\$0
		8-12 feet deep	2,184	lin. ft.	\$	112.00	<u>\$</u> \$	\$244,608
		12-16 feet deep	1,184	lin. ft.	\$	136.00	\$	\$161,024
		16-20 feet deep	683	lin. ft.	\$	178.00	\$	\$121,574
5	TREE TUNNELING		310	lin. ft.	\$	190.00	\$	\$58,900
6	SEWER TELEVISING F	OR FINAL INSPECTION	4,051	lin. ft.	\$	2.50	\$	\$10,128
7	SEWER TESTING FOR	FINAL INSPECTION	4,051	lin. ft.	\$	2.50	\$	\$10,128
8	CULVERT REMOVAL A	ND REPLACEMENT						
	12-inch		105	lin. ft.	\$	80.00	\$	\$8,400
9	RESTORATION OF LAV	VNS AND PARKWAYS						
	Topsoil and sod		8,859	sq.yd.	\$	14.00	\$	\$124,026
10	RESTORATION OF WE	TLANDS AND BUFFERS						
	Wetland		708	sq.yd.	\$	30.00	\$	21,240
	Wetland Buffer		4,667	sq.yd.	_	15.00	\$ \$	70,005
11	RESTORATION OF STR	REETS						
	Bit. Concrete Street		787	sq.yd.	\$	63.00	\$	\$49,581
	PCC Sidewalk		1,500	sq. ft.	\$	13.00	\$	\$19,500
12	REMOVE AND REPLAC	E DRIVEWAYS						
	Bituminous		338	sq.yd.	\$	48.00	\$	\$16,224
	Concrete		100	sq.yd.	\$	80.00	\$	\$8,000
13	TREE REMOVAL AND T	TRIMMING:			Lur	np Sum	\$	\$19,082

Table 4.5-22

Downers Grove Sanitary District

Proposed Special Assessment

Ogden-Lacey-Grant-Lee (South)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approx Qua		Unit Price	Amount
14	EROSION CONTROL:			Lump Sum	\$ \$15,792
15	TRAFFIC CONTROL:			Lump Sum	\$ \$18,424
	SUBTOTAL				\$ \$1,501,937
SEI	RVICE LATERALS				
1	BUILDING SERVICE LINES Near side Far side	180 306	lin. ft. lin. ft.	\$ 49.00 \$ 49.00	\$ \$8,820 \$14,994
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	12 6	each each	\$ 548.00 \$ 675.00	\$ \$6,576 \$4,050
3	BUILDING SERVICE PLUG:	18	each	\$ 206.00	\$ \$3,708
4	RESTORATION OF LAWNS AND PARKW Topsoil and sod	/AYS 400	sq.yd.	\$ 14.00	\$ \$5,600
5	RESTORATION OF STREETS: Bit. Concrete Street	128	sq.yd.	\$ 62.00	\$ \$7,936
6	TRENCH BACKFILL 8-12 feet deep	168	lin. ft.	\$ 82.00	\$ \$13,776
7	REMOVE AND REPLACE DRIVEWAYS Bituminous	0	sq. yd.	\$ 47.00	\$ \$0
	SUBTOTAL				\$ \$65,460
	TOTAL ESTIMATE OF CONSTRUCT	ION COST			\$ \$1,567,400
		Contingencies Engineering Legal / Admin Easement Acqu	(20%) (20%) (6%) uisition		\$313,500 \$313,500 \$131,700 \$133,600
	TOTAL OPINION OF PROBABLE CO	ST			\$ \$2,459,700
				Cost per lot	\$136,650

Table 4.5-23

Downers Grove Sanitary District

Proposed Special Assessments

Burlington Highlands Sub-Area

Cost Summary

Sub-Basin:	Near Services	Far Services	Cost	Cost per lot
Morton and Downers	20	19	\$ 1,362,500	\$ 34,940
40th and Seely (North)	9	12	\$ 592,600	\$ 28,220
40th and Northcott	5	9	\$ 415,300	\$ 29,660
Virginia-Seely-Janet-Downers	25	18	\$ 1,122,000	\$ 26,090
Belle Aire and Venard	15	6	\$ 908,200	\$ 43,250
Vernard Road (North)	4	6	\$ 365,800	\$ 36,580
Vernard Road (South) (completed)	0	0	\$ -	\$ -
Virginia Avenue (West)	3	3	\$ 147,900	\$ 24,650
Lacey-Carol-Northcott	0	1	\$ 66,900	\$ 66,900
Lacey and Janet	7	7	\$ 300,000	\$ 21,430
Ogden-Lacey-Grant-Lee (South)	12	6	\$ 2,459,700	\$ 136,650
TOTALS	100	87	\$ 7,740,900	\$ 41,400
	18	37		

4.6 Golf Addition

Golf Addition is a sub-area within the District's FPA that is currently unsewered. As shown on Exhibit 4.6, the approximate limits of this sub-area are Warrenville Road to the north, Walnut Avenue to the west, Burlington Avenue to the south, and Belmont Road to the east. The proposed service area includes approximately 48 single-family residences with septic systems, commercial lots without gravity sewer service, Downers Grove Park District property, and several undeveloped residential and commercial parcels. The purpose of this analysis is to establish the most cost-effective sanitary sewer plan for serving unsewered properties within the Golf Addition sub-area.

A number of factors were considered when determining the most cost-effective sewer layout. These factors include topography, major road crossings, easements, wetlands, tree protection, water main and existing utility location, and existing downstream sewer capacity. The Golf Addition sub-area has four major drainage divides. Serving the subject properties by following the ground contours will avoid deep cuts through the higher elevations along drainage divides. The study area can be divided into four smaller service areas. Properties to north of Indianapolis Avenue will be served by the existing sewers on Ogden Avenue. Properties on Drendel and Granville, south of Indianapolis Avenue, will be served by the existing sewer on Burlington Avenue. The Park District parcels at the northeast corner of Walnut and Burlington will be served by the trunk sewer on Walnut Avenue. Parcels on Puffer Road, north of Prairie Avenue, will be served by the sewer at the intersection of Belmont Road and Prairie Avenue.

In addition to following the ground contours, the low-cost sewer layout also needs to consider avoiding major road crossings. The major road crossings that would significantly increase construction cost in this sub-area are Ogden Avenue and Belmont Road. Thus, alternatives were considered to minimize crossing of these routes with both the mainline sewer and building services.

The Village of Downers Grove owns and operates water mains on the streets within the sub-area. The water main design drawings were reviewed and field investigations of the sewer routes were completed to reduce the potential for utility conflicts and to ensure that the required ten feet of separation from water mains can be achieved.

The final component of this analysis was to evaluate the downstream capacity of the existing sewers. Our analysis determined that all of the existing sewers have adequate capacity to receive the additional flow from the Golf Addition sub-area.

For this analysis, the subject area was subdivided into smaller, more manageable sub-basins. The sub-basins were created using topography and projected sewer connection points.

The following are the proposed sub-basins:

Sub-basin	No. of Services	Layout	Cost Estimate
Drendel and Ogden	(completed)	<i>Table 4.6-1</i>	<i>Table 4.6-2</i>
Cross and Ogden (South)	(completed)	<i>Table 4.6-3</i>	<i>Table 4.6-4</i>
Cross and Ogden (North)	2	Table 4.6-5	Table 4.6-6
Drendel and Granville (South)	28	Table 4.6-7	Table 4.6-8
Burlington and Walnut (South)	2	Table 4.6-9	Table 4.6-10
Puffer North of Prairie	16	Table 4.6-11	Table 4.6-12

Table 4.6-13 is a summary table of opinions of probable cost. A map of the proposed sewer plan is included in Exhibit 4.6.

Sanitary sewers are available to all parcels in the Drendel and Ogden sub-basin and the Cross and Ogden (South) sub-basin as of March 2010. Approximately 3,150 feet of 8-inch sanitary sewer and 41 services were constructed for a total bid price of \$603,700 by Archon Construction Co, Inc. in spring of 2010 with partial funding from ARRA of 2009. The average cost per lot was approximately \$14,720.

The Cross and Ogden (North) sub-basin sewer plan follows the existing topography which falls southwest towards the manhole in front of the new Culver's Restaurant. This sewer will allow the private pump station and force main of the Max Madsen car dealership at 2438 Ogden (northeast corner of Cross and Ogden) and the private septic system on the west side of Cross Street (4340 Cross) to be abandoned. Easements will be required along both Cross and Ogden to construct this sewer. The cost per lot was not calculated because this sub-area is only comprised of the several large commercial parcels. Table 4.6-5 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.6-6 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$378,500, including contingency, engineering, easements, and legal/administrative costs.

The Drendel and Granville (South) sub-basin sewer plan follows the existing topography which falls from Drendel and Indianapolis south to the intersection of Granville and Burlington Avenue. The sewer will extend north from the existing sewer at Burlington and Granville. Easements will be required to cross the existing Downers Grove Park District property. The parcels on Drendel could also be served by the existing trunk sewer on Walnut, but additional sewer length and easements would be required. The sewer on Drendel should be placed in the west right-of-way, to avoid the water main, and in the east right-of-way on Granville to avoid the existing trees. This sub-basin is the third most costly per lot in the Golf Addition due to the sewer and easements required to cross the Park District property. Table 4.6-7 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.6-8 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$822,200, including contingency, engineering, easements, and legal/administrative costs.

The Burlington and Walnut (South) sub-basin sewer plan will flow west on Burlington Avenue from the Park District parcel west of Granville to the existing sanitary manhole at Walnut and Burlington. The sewer should be placed in the south right-way-way to avoid the existing water main and overhead electric. The cost per lot was not calculated because this sub-area only includes several large parcels owned by the Park District. Table 4.6-9 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.6-10 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$202,000, including contingency, engineering, and legal/administrative costs.

The Puffer North of Prairie sub-basin sewer plan will connect to the sewer on Belmont Road. Currently, the sewer does not have adequate cover to serve Puffer Road. The impending Metra-Belmont underpass project will include the replacement of the existing sewer on Belmont, from Burlington to Prairie, at a flatter slope to provide the additional depth required to allow sewer service on Puffer. This sub-basin is the most costly per lot in the Golf Addition due to the pavement restoration and tree tunneling required, in addition to the small number of lots associated with the project. Table 4.6-11 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.6-12 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$627,200, including contingency, engineering, easements, and legal/administrative costs.

DOWNERS GROVE SANITARY DISTRICT UNSEWERED AREA PLAN

EXHIBIT 4.6

GOLF ADDITION
POSSIBLE SEWER ALIGNMENT

MARCH 2020

LEGEND

PROPOSED MANHOLES

PROPOSED SEWERS

EXISTING MANHOLES

EXISTING SEWERS

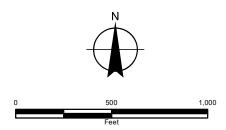
PARCEL BOUNDARIES

CROSS AND OGDEN (NORTH); TABLES 4.6-5, 4.6-6

DRENDEL AND GRANVILLE (SOUTH); TABLES 4.6-7, 4.6-8

BURLINGTON AND WALNUT (SOUTH); TABLES 4.6-9, 4.6-10

PUFFER NORTH OF PRAIRIE; TABLES 4.6-11, 4.6-12





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4-6 Golf Addition.mxd 563dks - 3/24/2020
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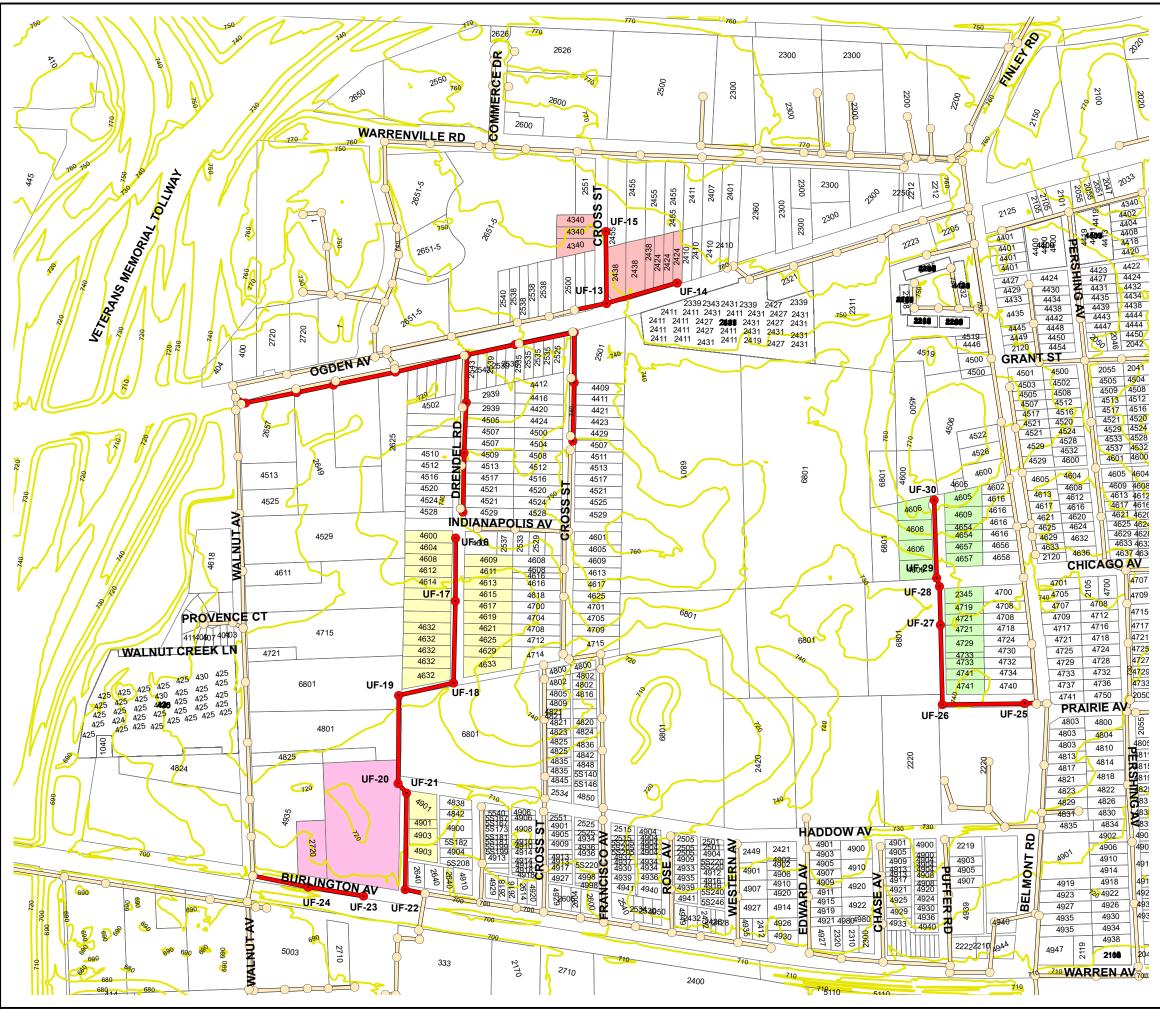


Table 4.6-1

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Drendel and Ogden

Preliminary Design Layout

Table 4.6-2 Downers Grove Sanitary District Possible Special Assessment for Sanitary Sewers Drendel and Ogden

Engineer's Opinion of Probable Construction Cost

March 2020

		Approximate	Unit	
No.	Pay Item	Quantity	Price	Amount

Table 4.6-2 Downers Grove Sanitary District Possible Special Assessment for Sanitary Sewers Drendel and Ogden

Engineer's Opinion of Probable Construction Cost

March 2020

		Approximate	Unit	
No.	Pay Item	Quantity	Price	Amount

Table 4.6-3

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Cross and Ogden (South)

Preliminary Design Layout

					Manhole
Manhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	<u>Slope</u>	<u>Depth</u>

Table 4.6-4

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Cross and Ogden (South)

Engineer's Opinion of Probable Construction Cost

		Approximate	Unit	
No.	Pay Item	Quantity	Price	Amount

Table 4.6-4

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Cross and Ogden (South)

Engineer's Opinion of Probable Construction Cost

		Approximate	Unit	
No.	Pay Item	Quantity	Price	Amount

Table 4.6-5

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Cross and Ogden (North)

Preliminary Design Layout

	Manhole Number	Rim	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
Ogden Aver	nue					
	3-A-88 (existing)	741.9	725.00	205	4.00%	16.9
	UF-13	748.0	733.20	370	3.00%	14.8
	UF-14	756.0	744.30	0.0	0.0070	11.7
Cross Stree	<u>et</u>			370	2.50%	
	UF-15	751.0	742.45	370	2.50 /0	8.5

Table 4.6-6

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Cross and Ogden (North)

Engineer's Opinion of Probable Construction Cost

		A	pproxima	te		Unit		
No.	Pay Item		Quantity			Price		Amount
MAINLINE SEWER								
1	SANITARY SEW	ER (OPEN CUT)						
•	8-inch	8-12 feet deep	240	lin. ft.	\$	86.00	\$	20,640.00
		12-16 feet deep	705	lin. ft.	\$	105.00	\$	74,025.00
2	SANITARY MANI	HOI ES						
_	48-inch	8-12 feet deep	2	each	\$	6,300.00	\$	12,600.00
		12-16 feet deep	1	each	\$	7,600.00	\$	7,600.00
3	CONNECTION T	O EXISTING MANHOLE						
O	8-inch	O EXIOTING WIX WITGEL	1	each	\$	6,100.00	\$	3,500.00
		··· ·						
4	TRENCH BACKF 8-inch	ILL 8-12 feet deep	240	lin. ft.	\$	112.00	\$	26,880.00
	O IIIOII	12-16 feet deep	200	lin. ft.	<u>\$</u> \$	136.00	<u>\$</u> \$	27,200.00
		. = . о . о о с а о о р	_00		<u> </u>		<u> </u>	
5	TREE TUNNELIN	NG	0	lin. ft.	\$	190.00	\$	0.00
6	SEWER TELEVIS	SING FOR FINAL INSPEC	CTION					
Ü	OLVILIC TELEVIC		945	lin. ft.	\$	2.50	\$	2,362.50
_	OFWED TEOTIN	0 500 5000 100050710						
7	SEWER TESTIN	G FOR FINAL INSPECTION	JN 945	lin. ft.	\$	2.50	\$	2,362.50
			940	III I. IL.	Ψ	2.50	Ψ	2,302.30
8		OVAL AND REPLACEMEN	IT					
	12-inch		0	lin. ft.	\$	80.00	\$	0.00
9	RESTORATION	OF LAWNS						
· ·	AND PARKWAYS							
	Topsoil and	l Sod	1,342	sq.yd.	\$	14.00	\$	18,788.00
10	RESTORATION	OF STREETS:						
10	Bit. Concrete		50	sq.yd.	\$	63.00	\$	3,150.00
	Curb & Gutte		40	lin. ft.	\$ \$ \$	41.00	\$ \$ \$	1,640.00
	PCC Sidewa		200	sq. ft.	\$	13.00	\$	2,600.00
11		EPLACE DRIVEWAYS						
11	Bituminous	EFLACE DRIVEWAYS	67	sq.yd.	\$	48.00	\$	3,216.00
	2.0		0.	J4.74.	<u> </u>	10.00	<u> </u>	3,210.00
12	TREE REMOVAL	AND TRIMMING:			Lum	p Sum	\$	0.00

Table 4.6-6

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Cross and Ogden (North)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity	Unit Price		Amount
		Quantity			
13	EROSION CONTROL		Lump Sum	\$	0.00
14	TRAFFIC CONTROL:		Lump Sum	\$	19,740.00
	SUBTOTAL			\$	226,304.00
SERVI	CE LATERALS				
1	BUILDING SERVICE LINES Near side Far side	10 lin. ft. 48 lin. ft.	\$ 49.00 \$ 49.00	\$ \$	490.00 2,352.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	1 each 1 each	\$ 548.00 \$ 675.00	\$ \$	548.00 675.00
3	BUILDING SERVICE PLUG:	2 each	\$ 206.00	\$	412.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and Sod	28 sq.yd.	\$ 14.00	\$	392.00
5	RESTORATION OF STREETS: Bit. Concrete Street	21 sq.yd.	\$ 62.00	\$	1,302.00
6	TRENCH BACKFILL 0-8 feet deep	35 lin. ft.	\$ 61.00	\$	2,135.00
	SUBTOTAL			\$	8,306.00
	TOTAL ESTIMATE OF CONS	TRUCTION COST		\$	234,600.00
		Contingencies (20%) Engineering (20%) Legal / Admin (6%) Easement Acquisition			\$46,900.00 \$46,900.00 \$19,700.00 \$30,400.00
	TOTAL OPINION OF PROBAG	BLE COST		\$	378,500.00

Table 4.6-7

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Drendel and Granville (South)

Preliminary Design Layout

1	Manhole Number	Rim	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
Burlington Av	<u>renue</u>					
	3-B-3 (existing)	702.3	687.50	440		14.8
	UF-22	703.0	689.70	110	2.00%	13.3
Granville Ave	enue					
	UF-21	714.0	701.70	480	2.50%	12.3
	UF-20	715.0	703.10	70	2.00%	11.9
Park District		7 10.0	700.10			11.0
Park District				450	1.80%	
	UF-19	722.0	711.20			10.8
Drendel Road	<u>d</u>			280	0.40%	
	UF-18	722.0	712.32	400	0.40%	9.7
	UF-17	722.0	713.92			8.1
	UF-16	735.0	726.52	360	3.50%	8.5

Table 4.6-8

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Drendel and Granville (South)

Engineer's Opinion of Probable Construction Cost

	Approximate Unit			Unit				
No.	Pay Item		Quantity			Price		Amount
MAINI	INE SEWER							
WAINL	INE SEWER							
1	SANITARY SEW	ER (OPEN CUT)						
	8-inch	0-8 feet deep	60	lin. ft.	\$	74.00	\$	4,440.00
		8-12 feet deep	1,850	lin. ft.	\$ \$ \$	86.00	\$ \$	159,100.00
		12-16 feet deep	240	lin. ft.	\$	105.00	\$	25,200.00
2	SANITARY MAN	HOI ES						
2	48-inch	0-8 feet deep	1	each	Ф	4,800.00	¢	4,800.00
	40-111011	8-12 feet deep	4	each	\$ \$ \$	6,300.00	\$ \$ \$	25,200.00
		12-16 feet deep	2	each	Φ Φ	7,600.00	Φ	15,200.00
		12-10 leet deep	2	eacii	φ	7,000.00	Ψ	15,200.00
3	CONNECTION T	O EXISTING MANHO)LE					
	8-inch		1	each	\$	6,100.00	\$	3,500.00
4	TDENCH DACK	-11 1						
4	TRENCH BACKE 8-inch	0-8 feet deep	230	lin. ft.	\$	92.00	\$	21,160.00
	0 111011	8-12 feet deep	185	lin. ft.	\$ \$ \$	112.00	\$ \$ \$	20,720.00
		12-16 feet deep	69	lin. ft.	\$	136.00	\$	9,384.00
		12 10 1001 000p	00		Ψ	100.00	Ψ	0,001.00
5	TREE TUNNELIN	NG	345	lin. ft.	\$	190.00	\$	65,550.00
•	05W5D 75L5W	01N10 E0D E1N141 IN10	DECTION					
6	SEWER TELEVI	SING FOR FINAL INS		г. 6	Φ.	0.50	Φ.	5.075.00
			2,150	lin. ft.	\$	2.50	\$	5,375.00
7	SEWER TESTIN	G FOR FINAL INSPE	CTION					
•			2,150	lin. ft.	\$	2.50	\$	5,375.00
								·
8		OVAL AND REPLACE			_		_	
	12-inch		115	lin. ft.	\$	80.00	\$	9,200.00
9	RESTORATION	OFLAWNS						
Ū	AND PARKWAY							
	Topsoil and		3,158	sq.yd.	\$	14.00	\$	44,212.00
	·		•	1,	·		-	· ·
10								
	Bit. Concrete	e Street	13	sq.yd.	\$	63.00	\$	819.00
11	REMOVE AND E	REPLACE DRIVEWAY	·S					
11	Bituminous	CLI LAGE DRIVEWAT		sq.yd.	\$	48.00	\$	11,088.00
	Ditallillous		201	oq.yu.	Ψ	-10.00	Ψ	11,000.00
12	TREE REMOVAL	_ AND TRIMMING:			Lum	p Sum	\$	8,883.00

Table 4.6-8

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Drendel and Granville (South)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity	Unit Price	Amount
	•	Quantity		
13	EROSION CONTROL		Lump Sum	\$ 2,303.00
14	TRAFFIC CONTROL:		Lump Sum	\$ 3,948.00
	SUBTOTAL			\$ 445,457.00
SERVI	CE LATERALS			
1	BUILDING SERVICE LINES			
	Near side	124 lin. ft.	\$ 49.00 \$ 49.00	\$ 6,076.00 \$ 29,400.00
	Far side	600 lin. ft.	\$ 49.00	\$ 29,400.00
2	BUILDING SERVICE			
	BRANCH FITTINGS	40	A 540.00	
	Near Side Far side	18 each 10 each	\$ 548.00 \$ 675.00	\$ 9,864.00 \$ 6,750.00
	i ai side	TO CAGIT	ψ 073.00	ψ 0,730.00
3	BUILDING SERVICE PLUG:	28 each	\$ 206.00	\$ 5,768.00
4	RESTORATION OF LAWNS			
	AND PARKWAYS:			
	Topsoil and Sod	367 sq.yd.	\$ 14.00	\$ 5,138.00
5	RESTORATION OF STREETS:			
	Bit. Concrete Street	189 sq.yd.	\$ 62.00	\$ 11,718.00
0	TDENCLIDACKELL			
6	TRENCH BACKFILL 0-8 feet deep	350 lin. ft.	\$ 61.00	\$ 21,350.00
	SUBTOTAL			\$ 96,064.00
	SUBTUTAL			\$ 96,064.00
	TOTAL ESTIMATE OF CONS	STRUCTION COST		\$ 541,500.00
		Contingencies (20%)		\$108,300.00
		Engineering (20%)		\$108,300.00
		Legal / Admin (6%)		\$45,500.00
		Easement Acquisition		\$18,600.00
	TOTAL OPINION OF PROBA	BLE COST		\$ 822,200.00
			Cost per lo	st \$29,360.00

Table 4.6-9

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Burlington and Walnut (South)

Preliminary Design Layout

	Manhole Number	Rim	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>					
Burlington A	Burlington Avenue										
	3-A-34 (existing)	700.0	683.01	300	3.00%	17.0					
	UF-24	704.0	692.01			12.0					
	UF-23	708.0	700.05	300	2.68%	8.0					

Table 4.6-10

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Burlington and Walnut (South)

Engineer's Opinion of Probable Construction Cost

		А	Approximate			Unit		
No.	Pay Item		Quantity			Price		Amount
MAINL	INE SEWER							
1	SANITARY SEW	ER (OPEN CUT)						
·	8-inch	0-8 feet deep	60	lin. ft.	\$	74.00	\$	4,440.00
		8-12 feet deep	500	lin. ft.	\$ \$ \$	86.00	\$	43,000.00
		12-16 feet deep	40	lin. ft.	\$	105.00	\$	4,200.00
								_
2	•				•	4 000 00	•	4 000 00
	48-inch	0-8 feet deep	1	each	<u>\$</u> \$	4,800.00	<u>\$</u> \$	4,800.00
		8-12 feet deep	1	each	\$	6,300.00	\$	6,300.00
3	CONNECTION T	O EXISTING MANHOLE						
3	8-inch	O EXIOTINO MAINTOLL	1	each	\$	6,100.00	\$	3,500.00
	55				<u>*</u>	3,:00:00	*	0,000.00
4	TRENCH BACKF	TLL						
	8-inch	0-8 feet deep	60	lin. ft.	<u>\$</u> \$	92.00	<u>\$</u> \$	5,520.00
		8-12 feet deep	120	lin. ft.	\$	112.00	\$	13,440.00
_								
5	TREE TUNNELIN	lG	50	lin. ft.	\$	190.00	\$	9,500.00
6	SEWED TELEVIS	SING FOR FINAL INSPEC	TION					
0	SEVVER TELEVIO	SING FOR FINAL INSPEC	600	lin. ft.	\$	2.50	\$	1,500.00
			000		Ψ	2.50	Ψ	1,000.00
7	SEWER TESTIN	G FOR FINAL INSPECTION	NC					
			600	lin. ft.	\$	2.50	\$	1,500.00
8		OVAL AND REPLACEMEN						
	12-inch		10	lin. ft.	\$	80.00	\$	800.00
0	DECTODATION	OE LAMANO						
9	RESTORATION (
	Topsoil and		833	sq.yd.	\$	14.00	\$	11,662.00
	1 003011 4110	1000	000	sq.yu.	Ψ	14.00	Ψ	11,002.00
10	RESTORATION (OF STREETS:						
	Bit. Concrete	Street	89	sq.yd.	\$	63.00	\$	5,607.00
11	_	EPLACE DRIVEWAYS		_				
	Bituminous		0	sq.yd.	\$	48.00	\$	0.00
12	TREE REMOVAL	. AND TRIMMING:			Lum	p Sum	\$	1,974.00
12	THE HEMOVAL	TAIL TRIIVIIVIII VO.			Luili	Poun	Ψ	1,577.00

Table 4.6-10

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Burlington and Walnut (South)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity	Unit Price		Amount
110.		Quartity			
13	EROSION CONTROL		Lump Sum	\$	658.00
14	TRAFFIC CONTROL:		Lump Sum	\$	2,632.00
	SUBTOTAL			\$	121,033.00
SERVI	CE LATERALS				
1	BUILDING SERVICE LINES Near side Far side	0 lin. ft. 120 lin. ft.	\$ 49.00 \$ 49.00	\$	0.00 5,880.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	0 each 2 each	\$ 548.00 \$ 675.00	\$ \$	0.00 1,350.00
3	BUILDING SERVICE PLUG:	2 each	\$ 206.00	\$	412.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and Sod	93 sq.yd.	\$ 14.00	\$	1,302.00
5	RESTORATION OF STREETS: Bit. Concrete Street	37 sq.yd.	\$ 62.00	\$	2,294.00
6	TRENCH BACKFILL 0-8 feet deep	64 lin. ft.	\$ 61.00	\$	3,904.00
	SUBTOTAL			\$	15,142.00
	TOTAL ESTIMATE OF CONS	STRUCTION COST		\$	136,200.00
		Contingencies (20%) Engineering (20%) Legal / Admin (6%)			\$27,200.00 \$27,200.00 \$11,400.00
	TOTAL OPINION OF PROBA	BLE COST		\$	202,000.00

Table 4.6-11

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Puffer North of Prairie

Preliminary Design Layout

	Manhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
Prairie Ave	<u>nue</u>					
	3-A-12 (existing) ¹	735.2	724.00	60	0.40%	11.2
	UF-25	734.0	724.24	420	0.40%	9.8
	UF-26	736.0	725.92	420	0.4070	10.1
Puffer Road	<u>d</u>					
	UF-27	735.0	727.52	400	0.40%	7.5
	UF-28	738.0	729.72	220	1.00%	8.3
				30	0.40%	
	UF-29	738.0	729.84	410	6.00%	8.2
	UF-30	766.0	754.44	-		11.6

Note 1: Proposed invert is after the replacement of the sewer on Belmont as part of the Metra project

Table 4.6-12

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Puffer North of Prairie

Engineer's Opinion of Probable Construction Cost

No.	Pay Item		Approxima Quantity			Unit Price		Amount
	•		Quartity			1 1100		7 tillount
MAINL	INE SEWER							
1	SANITARY SEW	/ER (OPEN CUT)						
	8-inch	0-8 feet deep	200	lin. ft.	<u>\$</u> \$	74.00	<u>\$</u> \$	14,800.00
		8-12 feet deep	1,280	lin. ft.	\$	86.00	\$	110,080.00
		12-16 feet deep	60	lin. ft.	\$	105.00	\$	6,300.00
2	SANITARY MAN	IHOLES						
	48-inch	0-8 feet deep	1	each	\$	4,800.00	\$	4,800.00
		8-12 feet deep	5	each	\$ \$	6,300.00	\$ \$	31,500.00
3	CONNECTION	TO EXISTING MANHO	DLE					
	8-inch		1	each	\$	6,100.00	\$	3,500.00
4	TRENCH BACK	FILL						
	8-inch	0-8 feet deep	200	lin. ft.	\$	92.00	\$	18,400.00
		8-12 feet deep	410	lin. ft.	\$	112.00	\$ \$	45,920.00
		12-16 feet deep	30	lin. ft.	\$ \$	136.00	\$	4,080.00
5	TREE TUNNELI	NG	165	lin. ft.	\$	190.00	\$	31,350.00
6	SEWER TELEV	ISING FOR FINAL INS	SPECTION					
·			1,540	lin. ft.	\$	2.50	\$	3,850.00
7	QEWED TEQTIN	NG FOR FINAL INSPE	CTION					
,	SEWER TESTI	NO FOR FINAL INOFE	1,540	lin. ft.	\$	2.50	\$	3,850.00
8	CIII VEDT DEM	OVAL AND REPLACE	MENIT					
0	12-inch	OVAL AND KEPLACE	50	lin. ft.	\$	80.00	\$	4,000.00
9	RESTORATION	OF LAWNS						
J	AND PARKWAY							
	Topsoil an		1,533	sq.yd.	\$	14.00	\$	21,462.00
10	RESTORATION	OF STREETS:						
	Bit. Concret		333	sq.yd.	\$	63.00	\$	20,979.00
	Curb & Gutt		0		\$	41.00	\$ \$ \$	0.00
	PCC Sidew		50		\$ \$	13.00	\$	650.00
11	REMOVE AND F	REPLACE DRIVEWAY	'S					
	Bituminous			sq.yd.	\$	48.00	\$	1,056.00

Table 4.6-12

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Puffer North of Prairie

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity	Unit Price		Amount
12	TREE REMOVAL AND TRIMMING	•	Lump Sum	\$	2,632.00
13	EROSION CONTROL		Lump Sum	\$	658.00
14	TRAFFIC CONTROL:		Lump Sum	\$	2,632.00
	SUBTOTAL			\$	332,499.00
SERVI	CE LATERALS				
1	BUILDING SERVICE LINES Near side Far side	10 lin. ft. 750 lin. ft.	\$ 49.00 \$ 49.00	\$ \$	490.00 36,750.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	1 each 15 each	\$ 548.00 \$ 675.00	\$ \$	548.00 10,125.00
3	BUILDING SERVICE PLUG:	16 each	\$ 206.00	\$	3,296.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and Sod	344 sq.yd.	\$ 14.00	\$	4,816.00
5	RESTORATION OF STREETS: Bit. Concrete Street	158 sq.yd.	\$ 62.00	\$	9,796.00
6	TRENCH BACKFILL 0-8 feet deep	285 lin. ft.	\$ 61.00	\$	17,385.00
	SUBTOTAL			\$	83,206.00
	TOTAL ESTIMATE OF CONS	TRUCTION COST		\$	415,700.00
		Contingencies (20%) Engineering (20%) Legal / Admin (6%) Easement Acquisition			\$83,100.00 \$83,100.00 \$34,900.00 \$10,400.00
	TOTAL OPINION OF PROBAI	BLE COST		\$	627,200.00
			Cost per le	ot	\$39,200.00

Table 4.6-13

Downers Grove Sanitary District

Possible Special Assessments for Sanitary Sewer

Golf Addition Sub-Area

Cost Summary

Sub-Basin:	Near	Far	Cost		(Cost per lot	
Drendel and Ogden (completed)	0	0	\$	_	\$	_	
Cross and Ogden (South) (completed)	0	0	\$	-	\$	-	
Cross and Ogden (North)	1	1	\$	378,500.00		N/A	
Drendel and Granville (South)	18	10	\$	822,200.00	\$	29,360.00	
Burlington and Walnut (South)	0	2	\$	202,000.00		N/A	
Puffer North of Prairie	1	15	\$	627,200.00	\$	39,200.00	
TOTALS	20	28	\$	2,029,900.00	\$	32,940.00	

4.7 Florence Avenue

Florence Avenue is a small service area located within the District's FPA boundary. Exhibit 4.7 shows the approximate limits of this service area which is located west of Fairview Avenue and north of Ogden Avenue. The proposed service area currently includes 11 lots that are either developed as single-family residences with septic systems or vacant. The purpose of this analysis is to establish the most cost-effective sanitary sewer plan for serving properties along Florence Avenue.

Several factors were considered when determining the most cost-effective sewer layout. These factors include topography, tree protection, water main and existing utility location. In addition to following the ground contours, the low-cost sewer layout also needs to consider avoiding major road crossings. The one major road crossing that would significantly increase construction cost in this sub-area is Ogden Avenue. Thus, alternatives were considered to minimize crossing of this roadway. The Village of Downers Grove does not own any water mains within the subject area limits. The only utilities that would impact sewer construction are gas mains and overhead electric.

The final component of this analysis was to evaluate the downstream capacity of the existing sewers. Our analysis determined that the existing sewer has adequate capacity to receive the additional flow from Florence Avenue.

A map of the proposed sewer plan is included in Exhibit 4.7.

The topography along Florence Avenue is relatively flat, and thus, the direction of flow will be dictated by the available sewer depth and the most cost effective route. We identified one feasible connection point, the existing manhole in the northern westbound lane of Ogden Avenue (1-J-136).

We recommend the sewer be installed in the west right-of-way to avoid the existing power lines, gas mains, and major landscaping located in the east right-of-way. Table 4.7-1 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.7-2 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$241,400, including contingency, engineering, and legal/administrative costs.

DOWNERS GROVE SANITARY DISTRICT UNSEWERED AREA PLAN

EXHIBIT 4.7

FLORENCE AVENUE

POSSIBLE SEWER ALIGNMENT

MARCH 2020

LEGEND

PROPOSED MANHOLES

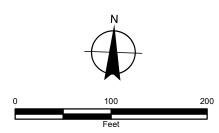
PROPOSED SEWER

EXISTING MANHOLES

= EXISTING SEWERS

PARCEL BOUNDARIES

FLORENCE AVENUE





 $\label{logsd1} $$ \operatorname{Crystal Lake} \Omega -2020 UAP\GIS\MXDs\4-7 FlorenceAve.mxd 563dks - 3/24/2020 $$$

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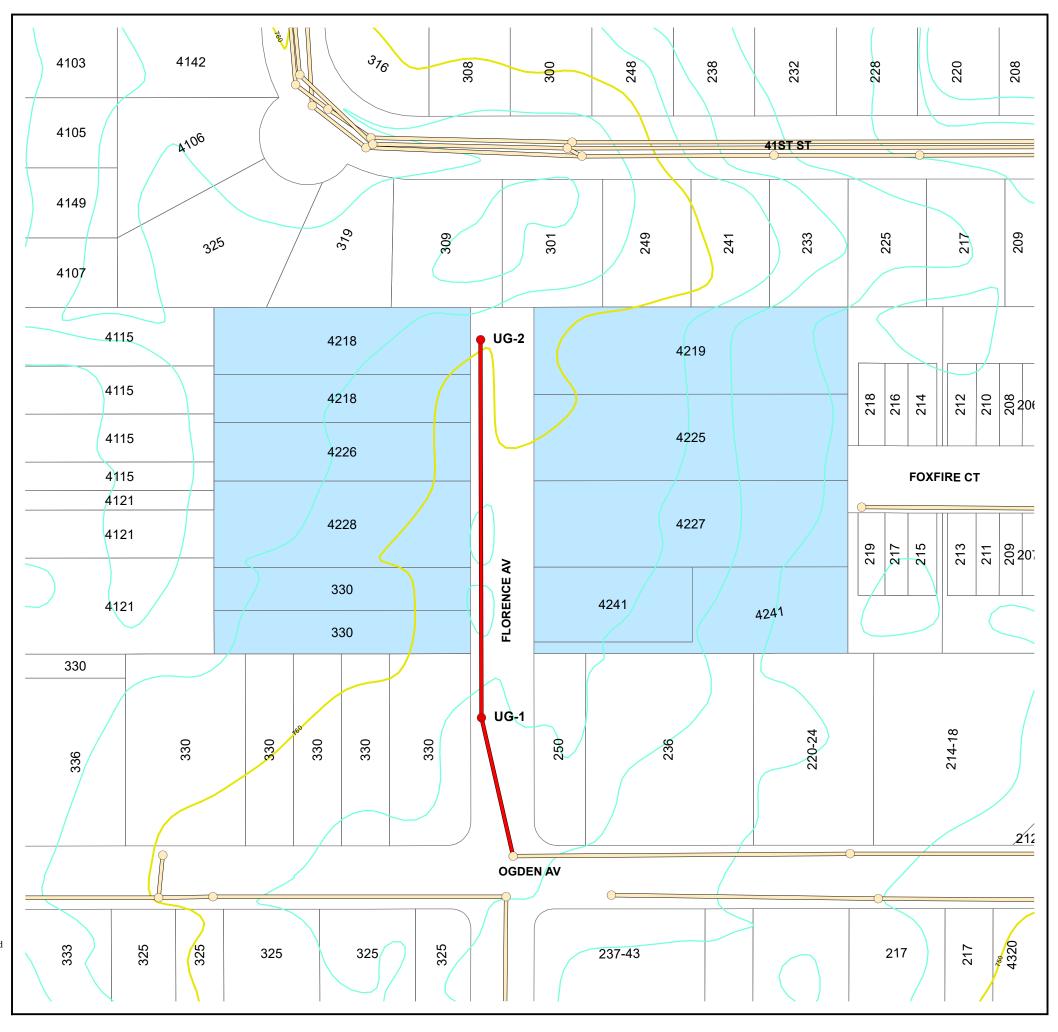


Table 4.7-1

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Florence Avenue

Preliminary Design Layout

<u>Man</u>	hole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	<u>Slope</u>	Manhole <u>Depth</u>				
Florence Avenu	Florence Avenue									
1-J-	136 (existing)	756.0	748.54	140	0.40%	7.5				
	UG-1	757.5	749.10	400	0.50%	8.4				
	UG-2	761.0	751.10	400	0.50 /6	9.9				

Table 4.7-2

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Florence Avenue

Engineer's Opinion of Probable Construction Cost

No.	Appr Pay Item Qu			9		Unit Price		Amount	
	E SEWER	-	<u> </u>						
1	SANITARY SEWER 8-inch	R (OPEN CUT) 0-8 feet deep 8-12 feet deep	40 500	lin. ft. lin. ft.	\$ \$	74.00 86.00	\$ \$	2,960.00 43,000.00	
2	SANITARY MANHO 48-inch	DLES 0-8 feet deep 8-12 feet deep	0 2	each each	<u>\$</u> \$	4,800.00 6,300.00	\$ \$	0.00	
3	CONNECTION TO 8-inch	EXISTING MANHOLE	1	each	\$	6,100.00	\$	6,100.00	
4	TRENCH BACKFIL 8-inch	L 0-8 feet deep 8-12 feet deep	19 177	lin. ft. lin. ft.	\$ \$	92.00 112.00	\$ \$	1,748.00 19,824.00	
5	TREE TUNNELING		30	lin. ft.	\$	190.00	\$	5,700.00	
6	SEWER TELEVISI	NG FOR FINAL INSPECTION	ON 540	lin. ft.	\$	2.50	\$	1,350.00	
7	SEWER TESTING	FOR FINAL INSPECTION	540	lin. ft.	\$	2.50	\$	1,350.00	
8	CULVERT REMOV 12-inch	AL AND REPLACEMENT	20	lin. ft.	\$	80.00	\$	1,600.00	
9	RESTORATION OF AND PARKWAYS: Topsoil and s		575	sq.yd.	\$	14.00	\$	8,050.00	
10	RESTORATION OF Bit. Concrete S		89	sq.yd.	\$	63.00	\$	5,607.00	
11	REMOVE AND REF Concrete Bituminous Aggregate	PLACE DRIVEWAYS	13 65 13	sq.yd. sq.yd. sq.yd.	\$ \$	80.00 48.00 20.00	\$ \$ \$	1,040.00 3,120.00 260.00	

No.	Pay Item	Approximate Quantity	Э		Unit Price		Amount
12	TREE REMOVAL AND TRIMMING	G:		Lump	Sum	\$	658.00
13	EROSION CONTROL			Lump	Sum	\$	658.00
14	TRAFFIC CONTROL:			Lump	Sum	\$	5,264.00
	SUBTOTAL					\$	120,889.00
SERVICE	LATERALS						
1	BUILDING SERVICE LINES Near side Far side	90 255	lin. ft. lin. ft.	\$ \$	49.00 49.00	\$	4,410.00 12,495.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	6 5	each each	<u>\$</u> \$	548.00 675.00	<u>\$</u>	3,288.00 3,375.00
3	BUILDING SERVICE PLUG:	11	each	\$	206.00	\$	2,266.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	158	sq.yd.	\$	14.00	\$	2,212.00
5	RESTORATION OF STREETS: Bit. Concrete Street	80	sq.yd.	\$	62.00	\$	4,960.00
6	TRENCH BACKFILL 0-8 feet deep	145	lin. ft.	\$	61.00	\$	8,845.00
	SUBTOTAL					\$	41,851.00
	TOTAL ESTIMATE OF CONS	STRUCTION COST				\$	162,700.00
		Contingencies Engineering Legal / Admin	(20%) (20%) (6%)				\$32,500.00 \$32,500.00 \$13,700.00
	TOTAL OPINION OF PROBA	BLE COST				\$	241,400.00
					Cost per lo	ot	\$21,950.00

4.8 Meyers and 31st

Meyers and 31st is a sub-area within the northeast corner of the District's planning area that is currently unsewered. Several lots are located outside of the District FPA, but can not be served by the adjacent Hinsdale Sanitary District in an economical manner. As shown on Exhibit 4.8, the approximate limits of this sub-area are White Oak Lane to the north, Meyers Road to the east, and 35th Street to the south. The proposed service area includes approximately 7 single-family residences with septic systems. The purpose of this analysis is to establish the recommended sanitary sewer plan for serving all unsewered properties within the Meyers and 31st sub-area.

A number of factors were considered when determining the most cost-effective sewer layout. These factors include topography, major road crossings, easements, wetlands, tree protection, water main and existing utility location, and existing downstream sewer capacity. Please note that some of the parcels identified in these sub-basins may require a close evaluation of the legal issues and financial feasibility considerations associated with acquiring private easement or other land use rights from adjacent or nearby property owners in order to install a sanitary sewer service line from the parcel in question to the District's new sewer main. The Meyers and 31st sub-area has multiple drainage divides and low spots. The study area can be divided into two smaller service areas, properties between White Oak Lane and Heritage Oaks Lane and properties between 35th Street and Heritage Oaks Lane. Each of these two areas has centrally located low spots, which complicate serving each sub-basin in a cost effective manner.

In addition to following the ground contours, the low-cost sewer layout also needs to consider avoiding major road crossings. The one major road crossing that would significantly increase construction cost in this sub-area is Meyers Road. Thus, alternatives were considered to minimize construction in the right-of-way.

The DuPage Water Commission and Village of Oak Brook own and operate water mains and a transmission main on various streets within the sub-area. The water main design drawings were reviewed and field investigations of the sewer routes were completed to reduce the potential for utility conflicts and to ensure that the required ten feet of separation from water mains can be achieved.

The final component of this analysis was to evaluate the downstream capacity of the existing sewers. Our analysis determined that all of the existing sewers have adequate capacity to receive the additional flow from the Meyers and 31st sub-area.

For this analysis, the subject area was subdivided into smaller, more manageable sub-basins. The sub-basins were created using topography and projected sewer connection points.

The following are the proposed sub-basins:

Sub-basin	No. of Services	Property	Cost Estimate
Meyers Road (North)	1	3200 Meyers	Table 4.8-1
	1	3210 Meyers	Table 4.8-2
	1	3220 Meyers	Table 4.8-3
Meyers Road (South)	1	3400 Meyers	Table 4.8-4
	1	3404 Meyers	Table 4.8-5
	1	3408 Meyers	Table 4.8-6
	1	3412 Meyers	Table 4.8-7

Table 4.8-8 is a summary table of opinions of probable cost. A map of the proposed sewer plan is included in Exhibit 4.8.

The Meyers Road (North) sub-basin was thoroughly investigated and five feasible alternatives were identified. Each of the alternatives was described in detail in a letter report dated October 4, 2006. In summary, this sub-basin cannot be served by a conventional gravity sewer because of the topography or by a central lift station because minimum cleansing velocities cannot be accomplished in a force main. As a result, the three properties must be served by a low pressure sanitary sewer system. We examined two types of low pressures systems: individual grinder pumps discharging into a common force main (District owned) or individual grinder pumps discharging into individual force mains (privately owned). The common force main option was not recommended because the force mains would be placed in wooded, rear yard easements, which would be difficult to maintain by the District. Therefore, the recommended plan includes three, separate grinder pump and force main systems. Each system is costly due to the long, directional drilled force mains, multiple rear yard easements, and the existing creek within the project limits. Exhibit 4.8 shows the most cost effective route for serving each property. Tables 4.8-1, 4.8-2, and 4.8-3 include breakdowns of the unit quantities and unit prices used to prepare the opinion of probable cost for each individual low-pressure sanitary sewer system.

Multiple alternatives for the Meyers Road (South) sub-basin were also investigated and similar conclusions to the north sub-basin were arrived at. The four properties south of Heritage Oaks Lane cannot be served by gravity sewer, due to the topography adjacent to the pond north of the service area. The recommended plan includes four, separate grinder pump and force main systems. Exhibit 4.8 shows the most cost effective route for serving each property. As with the north sub-basin, the cost per lot is high due to the long, directional drilled force mains and multiple rear and side yard easements required. Tables 4.8-4, 4.8-5, 4.8-6, and 4.8-7 include breakdowns of the unit quantities and unit prices used to prepare the opinion of probable cost for each individual low-pressure sanitary sewer system.

DOWNERS GROVE SANITARY DISTRICT UNSEWERED AREA PLAN

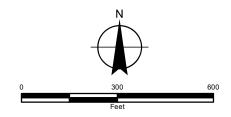
EXHIBIT 4.8

MEYERS ROAD AND 31ST STREET

POSSIBLE FORCE MAIN ALIGNMENT

MARCH 2020

PRIVATE FORCE MAINS PARCEL BOUNDARIES MEYERS ROAD (NORTH) MEYERS ROAD (SOUTH) PROPOSED EASEMENT





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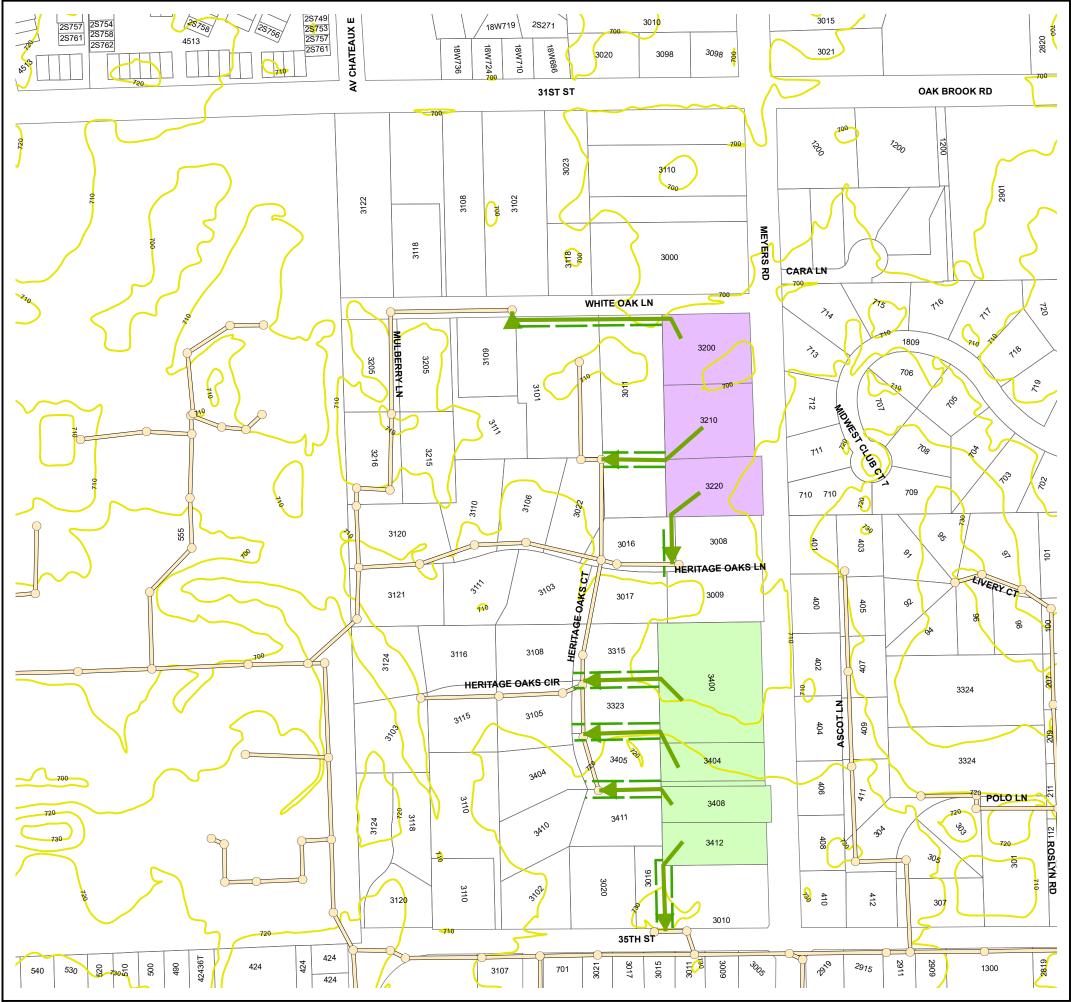


Table 4.8-1

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Meyers Road (North)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxima Quantity		Unit Price		Amount
SERVIO	CE LATERALS					
1	GRINDER PUMP SYSTEM:	1	each	\$ 11,000.00	\$	11,000.00
2	BUILDING SERVICE LINES: 1-1/4" HDPE (OPEN CUT)	65	lin. ft.	\$ 43.00	\$	2,795.00
	1-1/4" HDPE (DRILL)	472	lin. ft.	\$ 55.00	\$	25,960.00
3	CONNECTION TO EXISTING MANH	OLE:	each	\$ 6,100.00	\$	6,100.00
4	CLEAN-OUTS:	2	each	\$ 2,700.00	\$	5,400.00
5	AIR RELEASE VALVES:	1	each	\$ 1,054.00	\$	1,054.00
6	BUILDING SERVICE FITTINGS:	0	each	\$ 211.00	\$	0.00
7	BUILDING SERVICE PLUG:	1	each	\$ 211.00	\$	211.00
8	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and Sod	117	sq.yd.	\$ 14.00	\$	1,638.00
9	REMOVE AND REPLACE DRIVEWA Bituminous		sq.yd.	\$ 47.00	\$	470.00
10	RESTORATION OF STREETS: Bit. Concrete Street	11	sq.yd.	\$ 62.00	\$	682.00
11	TRENCH BACKFILL: 0-8 feet deep	15	lin. ft.	\$ 61.00	\$	915.00
12	TREE REMOVAL AND TRIMMING:			Lump Sum	\$	1,974.00
13	EROSION CONTROL:			Lump Sum	\$	329.00
14	TRAFFIC CONTROL:			Lump Sum	\$	658.00
	TOTAL ESTIMATE OF CONSTR	UCTION COS	Т		\$	59,200.00
	Contingencies (20%) Engineering (20%) Easement Acquisition					
	TOTAL OPINION OF PROBABLI	E COST			<u>\$</u>	102,300.00

Table 4.8-2

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Meyers Road (North)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity		Unit Price		Amount		
SERVICE LATERALS								
1	GRINDER PUMP SYSTEM:	1	each	\$ 11,000.00	\$	11,000.00		
2	BUILDING SERVICE LINES: 1-1/4" HDPE (OPEN CUT)	50	lin. ft.	\$ 43.00	\$	2,150.00		
	1-1/4" HDPE (DRILL)	300	lin. ft.	\$ 55.00	\$	16,500.00		
3	CONNECTION TO EXISTING MAN	HOLE:	each	\$ 6,100.00	\$	6,100.00		
4	CLEAN-OUTS:	1	each	\$ 2,700.00	\$	2,700.00		
5	AIR RELEASE VALVES:	1	each	\$ 1,054.00	\$	1,054.00		
6	BUILDING SERVICE FITTINGS:	0	each	\$ 211.00	\$	0.00		
7	BUILDING SERVICE PLUG:	1	each	\$ 211.00	\$	211.00		
8	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and Sod	106	sq.yd.	\$ 14.00	\$	1,484.00		
9	REMOVE AND REPLACE DRIVEW Bituminous		sq.yd.	\$ 47.00	\$	0.00		
10	RESTORATION OF STREETS: Bit. Concrete Street	0	sq.yd.	\$ 62.00	\$	0.00		
11	TRENCH BACKFILL: 0-8 feet deep	0	lin. ft.	\$ 61.00	\$	0.00		
12	TREE REMOVAL AND TRIMMING:			Lump Sum	\$	2,632.00		
13	EROSION CONTROL:			Lump Sum	\$	987.00		
14	TRAFFIC CONTROL:			Lump Sum	\$	0.00		
TOTAL ESTIMATE OF CONSTRUCTION COST						44,800.00		
		Contingencies Engineering Easement Acqu	(20%) (20%) isition			\$9,000.00 \$9,000.00 \$8,500.00		
TOTAL OPINION OF PROBABLE COST					\$	71,300.00		

Table 4.8-3

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Meyers Road (North)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity		Unit Price		Amount		
SERVICE LATERALS								
1	GRINDER PUMP SYSTEM:	1	each	\$ 11,0	00.00 \$	11,000.00		
2	BUILDING SERVICE LINES: 1-1/4" HDPE (OPEN CUT)	150	lin. ft.	\$	43.00 \$	6,450.00		
	1-1/4" HDPE (DRILL)	170	lin. ft.	\$	55.00 \$	9,350.00		
3	CONNECTION TO EXISTING MANHO	OLE:	each	\$ 6,1	00.00 \$	6,100.00		
4	CLEAN-OUTS:	1	each	\$ 2,7	00.00 \$	2,700.00		
5	AIR RELEASE VALVES:	1	each	\$ 1,0	<u> \$4.00</u>	1,054.00		
6	BUILDING SERVICE FITTINGS:	0	each	\$ 2	11.00 \$	0.00		
7	BUILDING SERVICE PLUG:	1	each	\$ 2	11.00 \$	211.00		
8	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and Sod	217	sq.yd.	\$	14.00 <u>\$</u>	3,038.00		
9	REMOVE AND REPLACE DRIVEWAY Bituminous	YS:	sq.yd.	\$	<u>47.00</u> <u>\$</u>	0.00		
10	RESTORATION OF STREETS: Bit. Concrete Street	0	sq.yd.	\$	62.00 \$	0.00		
11	TRENCH BACKFILL: 0-8 feet deep	0	lin. ft.	\$	61.00 <u>\$</u>	0.00		
12	TREE REMOVAL AND TRIMMING:			Lump Sum	<u>\$</u>	1,974.00		
13	EROSION CONTROL:			Lump Sum	<u>\$</u>	987.00		
14	TRAFFIC CONTROL:			Lump Sum	<u>\$</u>	329.00		
TOTAL ESTIMATE OF CONSTRUCTION COST						43,200.00		
	Contingencies (20%) Engineering (20%) Easement Acquisition							
TOTAL OPINION OF PROBABLE COST						67,300.00		

Table 4.8-4

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Meyers Road (South)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity		Unit Price		Amount		
SERVICE LATERALS								
1	GRINDER PUMP SYSTEM:	1	each	\$ 11,000.00	\$	11,000.00		
2	BUILDING SERVICE LINES: 1-1/4" HDPE (OPEN CUT)	115	lin. ft.	\$ 43.00	\$	4,945.00		
	1-1/4" HDPE (DRILL)	250	lin. ft.	\$ 55.00	\$	13,750.00		
3	CONNECTION TO EXISTING MAN	HOLE:	each	\$ 6,100.00	\$	6,100.00		
4	CLEAN-OUTS:	1	each	\$ 2,700.00	\$	2,700.00		
5	AIR RELEASE VALVES:	1	each	\$ 1,054.00	\$	1,054.00		
6	BUILDING SERVICE FITTINGS:	0	each	\$ 211.00	\$	0.00		
7	BUILDING SERVICE PLUG:	1	each	\$ 211.00	\$	211.00		
8	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and Sod	178	sq.yd.	\$ 14.00	\$	2,492.00		
9	REMOVE AND REPLACE DRIVEW Bituminous		sq.yd.	\$ 47.00	\$	0.00		
10	RESTORATION OF STREETS: Bit. Concrete Street	3	sq.yd.	\$ 62.00	\$	186.00		
11	TRENCH BACKFILL: 0-8 feet deep	10	lin. ft.	\$ 61.00	\$	610.00		
12	TREE REMOVAL AND TRIMMING:			Lump Sum	\$	1,316.00		
13	EROSION CONTROL:			Lump Sum	\$	658.00		
14	TRAFFIC CONTROL:			Lump Sum	\$	658.00		
TOTAL ESTIMATE OF CONSTRUCTION COST						45,700.00		
		Contingencies Engineering Easement Acqu	(20%) (20%) isition			\$9,100.00 \$9,100.00 \$10,500.00		
	TOTAL OPINION OF PROBAB	BLE COST			\$	74,400.00		

Table 4.8-5

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Meyers Road (South)

Engineer's Opinion of Probable Construction Cost

No.	Day Itom	Approxima Quantity		Unit Price		Amount		
	Pay Item	Quantity		FIICE		Amount		
SERVICE LATERALS								
1	GRINDER PUMP SYSTEM:	1	each	\$ 11,000.00	\$	11,000.00		
2	BUILDING SERVICE LINES: 1-1/4" HDPE (OPEN CUT)	105	lin. ft.	\$ 43.00	\$	4,515.00		
	1-1/4" HDPE (DRILL)	240	lin. ft.	\$ 55.00	\$	13,200.00		
3	CONNECTION TO EXISTING MANH	HOLE:	each	\$ 6,100.00	\$	6,100.00		
4	CLEAN-OUTS:	1	each	\$ 2,700.00	\$	2,700.00		
5	AIR RELEASE VALVES:	1	each	\$ 1,054.00	\$	1,054.00		
6	BUILDING SERVICE FITTINGS:	0	each	\$ 211.00	\$	0.00		
7	BUILDING SERVICE PLUG:	1	each	\$ 211.00	\$	211.00		
8	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and Sod	167	sq.yd.	\$ 14.00	\$	2,338.00		
9	REMOVE AND REPLACE DRIVEWA	AYS:	sq.yd.	\$ 47.00	\$	0.00		
10	RESTORATION OF STREETS: Bit. Concrete Street	3	sq.yd.	\$ 62.00	\$	186.00		
11	TRENCH BACKFILL: 0-8 feet deep	10	lin. ft.	\$ 61.00	\$	610.00		
12	TREE REMOVAL AND TRIMMING:			Lump Sum	\$	1,316.00		
13	EROSION CONTROL:			Lump Sum	\$	658.00		
14	TRAFFIC CONTROL:			Lump Sum	\$	658.00		
TOTAL ESTIMATE OF CONSTRUCTION COST						44,500.00		
		Contingencies Engineering Easement Acqu	(20%) (20%) isition			\$8,900.00 \$8,900.00 \$10,300.00		
TOTAL OPINION OF PROBABLE COST						72,600.00		

Table 4.8-6

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Meyers Road (South)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity		Unit Price	Amount
SERVI	CE LATERALS				
1	GRINDER PUMP SYSTEM:	1	each	\$ 11,000.00	\$ 11,000.00
2	BUILDING SERVICE LINES: 1-1/4" HDPE (OPEN CUT)	130	lin. ft.	\$ 43.00	\$ 5,590.00
	1-1/4" HDPE (DRILL)	210	lin. ft.	\$ 55.00	\$ 11,550.00
3	CONNECTION TO EXISTING MAN	HOLE:	each	\$ 6,100.00	\$ 6,100.00
4	CLEAN-OUTS:	1	each	\$ 2,700.00	\$ 2,700.00
5	AIR RELEASE VALVES:	1	each	\$ 1,054.00	\$ 1,054.00
6	BUILDING SERVICE FITTINGS:	0	each	\$ 211.00	\$ 0.00
7	BUILDING SERVICE PLUG:	1	each	\$ 211.00	\$ 211.00
8	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and Sod	194	sq.yd.	\$ 14.00	\$ 2,716.00
9	REMOVE AND REPLACE DRIVEW Bituminous		sq.yd.	\$ 47.00	\$ 0.00
10	RESTORATION OF STREETS: Bit. Concrete Street	3	sq.yd.	\$ 62.00	\$ 186.00
11	TRENCH BACKFILL: 0-8 feet deep	10	lin. ft.	\$ 61.00	\$ 610.00
12	TREE REMOVAL AND TRIMMING:			Lump Sum	\$ 1,316.00
13	EROSION CONTROL:			Lump Sum	\$ 658.00
14	TRAFFIC CONTROL:			Lump Sum	\$ 658.00
	TOTAL ESTIMATE OF CONST	RUCTION COS	Т		\$ 44,300.00
		Contingencies Engineering Easement Acqu	(20%) (20%) isition		\$8,900.00 \$8,900.00 \$8,900.00
	TOTAL OPINION OF PROBAB	LE COST			\$ 71,000.00

Table 4.8-7

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Meyers Road (South)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxima Quantity		Unit Price	Amount
SERVIC	CE LATERALS				
1	GRINDER PUMP SYSTEM:	1	each	\$ 11,000.00	\$ 11,000.00
2	BUILDING SERVICE LINES: 1-1/4" HDPE (OPEN CUT)	140	lin. ft.	\$ 43.00	\$ 6,020.00
	1-1/4" HDPE (DRILL)	215	lin. ft.	\$ 55.00	\$ 11,825.00
3	CONNECTION TO EXISTING MANH	HOLE:	each	\$ 6,100.00	\$ 6,100.00
4	CLEAN-OUTS:	1	each	\$ 2,700.00	\$ 2,700.00
5	AIR RELEASE VALVES:	1	each	\$ 1,054.00	\$ 1,054.00
6	BUILDING SERVICE FITTINGS:	0	each	\$ 211.00	\$ 0.00
7	BUILDING SERVICE PLUG:	1	each	\$ 211.00	\$ 211.00
8	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and Sod	206	sq.yd.	\$ 14.00	\$ 2,884.00
9	REMOVE AND REPLACE DRIVEWA	AYS:	sq.yd.	\$ 47.00	\$ 329.00
10	RESTORATION OF STREETS: Bit. Concrete Street	0	sq.yd.	\$ 62.00	\$ 0.00
11	TRENCH BACKFILL: 0-8 feet deep	10	lin. ft.	\$ 61.00	\$ 610.00
12	TREE REMOVAL AND TRIMMING:			Lump Sum	\$ 1,316.00
13	EROSION CONTROL:			Lump Sum	\$ 658.00
14	TRAFFIC CONTROL:			Lump Sum	\$ 1,974.00
	TOTAL ESTIMATE OF CONSTR	RUCTION COS	Г		\$ 46,700.00
	I	Contingencies Engineering Easement Acqu	(20%) (20%) isition		\$9,300.00 \$9,300.00 \$5,500.00
	TOTAL OPINION OF PROBABL	E COST			\$ 70,800.00

4.9 57th and Grant

57th and Grant is a small service area located within the District's FPA boundary. Exhibit 4.9 shows the approximate limits of this service area which is located west of Cass Avenue on 57th Street. The District's collection system has been extended to all properties in this service area.

A map of the collection system is included in Exhibit 4.9.

Sanitary sewers are available to all parcels in the 57th and Grant sub-basin as of March 2015. Approximately 315 feet of 8-inch sanitary sewer, two manholes, and one service connection was constructed in 2014 by a developer for an estimated cost of \$40,000, including engineering costs. The service connection was provided to the house being constructed by the developer. The Engineer's estimate for extending this sewer and installing four service connections was \$169,000, including contingency, engineering, legal/administrative, and easement costs with the average cost per lot at approximately \$28,320.

DOWNERS GROVE SANITARY DISTRICT UNSEWERED AREA PLAN

EXHIBIT 4.9

57th & GRANT ST

POSSIBLE SEWER ALIGNMENT

MARCH 2020

LEGEND

PROPOSED MANHOLES

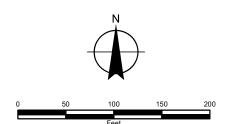
PROPOSED SEWERS

EXISTING MANHOLES

EXISTING SEWERS

PARCEL BOUNDARIES

EXISTING EASEMENT





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4-9 57th.mxd 563dks - 3/24/2020
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Table 4.9-1

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

57th and Grant

Preliminary Design Layout

ManholeManholeManholeManhole NumberRimInvertLength (ft)SlopeDepth

(Sanitary sewers are available as of March 2015.)

Table 4.9-2

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

57th and Grant

Engineer's Opinion of Probable Construction Cost

		Approximate	Unit	
No.	Pay Item	Quantity	Price	Amount

(Sanitary sewers are available as of March 2015.)

Table 4.9-2 **Downers Grove Sanitary District Possible Special Assessment for Sanitary Sewers 57th and Grant**

Engineer's Opinion of Probable Construction Cost

March 2020

		Approximate	Unit	
No.	Pay Item	Quantity	Price	Amount

(Sanitary sewers are available as of March 2015.)

4.10 60th and Cumnor

60th and Cumnor is a sub-area within the District's FPA that is currently unsewered. As shown on Exhibit 4.10, the approximate limits of this sub-area are Fairview Avenue to the west, 59th Street to the north, Williams Street to the east, and 61st Street to the south. The proposed service area includes approximately 57 single-family residences with septic systems or vacant lots. The purpose of this analysis is to establish the most cost-effective sanitary sewer plan for serving unsewered properties within the 60th and Cumnor sub-area.

A number of factors were considered when determining the most cost-effective sewer layout. These factors include topography, major road crossings, easements, wetlands, tree protection, water main and existing utility location, and existing downstream sewer capacity. The 60th and Cumnor sub-area has a high point near 60th and Cumnor and the topography generally falls to the north and east. However, there are multiple smaller drainage divides in the sub-area. Serving the subject properties by following the ground contours will avoid deep cuts through the higher elevations along drainage divides. The study area can be divided into multiple smaller service areas in order to create the most cost effective plan.

In addition to following the ground contours, the low-cost sewer layout also needs to consider avoiding major road crossings. The one major road crossing that would significantly increase construction cost in this sub-area is Fairview Avenue. Thus, alternatives were considered to minimize crossing of this route with both the mainline sewer and building services.

The Village of Westmont owns and operates water mains on the streets within the sub-area. Water main atlases were reviewed and field investigations of the sewer routes were completed to reduce the potential for utility conflicts and to ensure that the required ten feet of separation from water mains can be achieved.

The final component of this analysis was to evaluate the downstream capacity of the existing sewers. Our analysis determined that all of the existing sewers have adequate capacity to receive the additional flow from the 60th and Cumnor sub-area.

For this analysis, the subject area was subdivided into smaller, more manageable sub-basins. The sub-basins were created using topography and projected sewer connection points.

The following are the proposed sub-basins:

Sub-basin	No. of Services	Layout	Cost Estimate
59 th (West)	15	Table 4.10-1	Table 4.10-2
59 th (East)	4	Table 4.10-3	Table 4.10-4
60 th (West)	11	Table 4.10-5	Table 4.10-6
60 th and Cumnor	7	Table 4.10-7	Table 4.10-8
60 th (East)	3	Table 4.10-9	Table 4.10-10
Cumnor (South)	2	Table 4.10-11	Table 4.10-12
61st and Cumnor	12	Table 4.10-13	Table 4.10-14
61 st (East)	3	Table 4.10-15	Table 4.10-16

Table 4.10-17 is a summary table of opinions of probable cost. A map of the proposed sewer plan is included in Exhibit 4.10.

The 59th (West) sub-basin sewer plan follows the topography which falls from Fairview east to Raintree Lane. The sewer should be placed in the north right-of-way to avoid the water main and overhead power lines in the south right-of-way. In 2012 approximately 100 feet of 8-inch sanitary sewer and 1 service were constructed for a total price of \$22,000. Table 4.10-1 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.10-2 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$357,100 including contingency, engineering, and legal/administrative costs.

The 59th (East) sub-basin sewer plan follows the topography east to Williams Street. The sewer must be placed in the pavement to avoid utilities and trees in both parkways. This is the most costly sub-basin because of the pavement restoration, trench backfill, and small number of serviceable lots. Table 4.10-3 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.10-4 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$309,900, including contingency, engineering, and legal/administrative costs.

The 60th (West) sub-basin sewer plan follows the existing topography which falls west towards Fairview Avenue. The sewer should be placed in the south parkway to match the alignment of the existing sewer and avoid a road crossing. Table 4.10-5 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.10-6 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$217,500, including contingency, engineering, and legal/administrative costs.

The 60th and Cumnor sub-basin sewer plan follows the existing topography which falls from 293 W. 60th Street east to 217 W. 60th Street. Similar to the previous sub-basin, this sewer should be placed in the south parkway to avoid the existing water main and overhead power lines in the north parkway. Table 4.10-7 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.10-8 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$147,400, including contingency, engineering, and legal/administrative costs.

The 60th (East) sub-basin sewer plan will flow east from 105 W. 60th Street to the existing sanitary manhole at 35 W. 60th Street. The sewer should be placed in the south right-of-way to match the existing sewer alignment and avoid a road crossing. Table 4.10-9 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.10-10 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$79,500, including contingency, engineering, and legal/administrative costs.

The Cumnor (South) sub-basin sewer plan will connect to the sewer on 61st Street, west of the existing manhole W-1-41. The existing sewer that is south of the intersection of 60th and

Cumnor does not have adequate cover to serve the sub-basin. This sub-basin is the second most costly per lot in the 60th and Cumnor sub-basin due to the small number of lots associated with the project. Table 4.10-11 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.10-12 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$110,600, including contingency, engineering, and legal/administrative costs.

The 61st and Cumnor sub-basin sewer plan will connect to the sewer at the southeast corner of Cumnor and 61st. The sewer should be placed in the west-bound travel lane to avoid the water main in the south parkway and the power lines, underground communication, and wetlands in the north parkway. Table 4.10-13 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.10-14 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$382,200 including contingency, engineering, and legal/administrative costs.

The 61st (East) sub-basin sewer plan will connect to the manhole 200 feet west of the northwest intersection of Williams and 61st. Unlike the sewer to the west, this sewer can be placed in the north parkway despite the utilities. Table 4.10-15 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.10-16 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$85,100, including contingency, engineering, and legal/administrative costs.

DOWNERS GROVE SANITARY DISTRICT UNSEWERED AREA PLAN

EXHIBIT 4.10

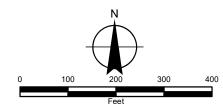
60TH AND CUMNOR

POSSIBLE SEWER ALIGNMENT

MARCH 2020

PROPOSED MANHOLES PROPOSED SEWERS EXISTING MANHOLES EXISTING SEWERS PARCEL BOUNDARIES 59TH (WEST);TABLES 4.10-1, 4.10-2 59TH (EAST);TABLES 4.10-3, 4.10-4 60TH (WEST);TABLES 4.10-5, 4.10-6 60TH AND CUMNOR;TABLES 4.10-7, 4.10-8 60TH (EAST);TABLES 4.10-9, 4.10-10

CUMNOR (SOUTH);TABLES 4.10-11, 4.10-12 61ST AND CUMNOR;TABLES 4.10-13, 4.10-14 61ST (EAST);TABLES 4.10-15, 4.10-16





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MapDocuments\4-10 Cumnor.mxd 563dks - 3/24/2020
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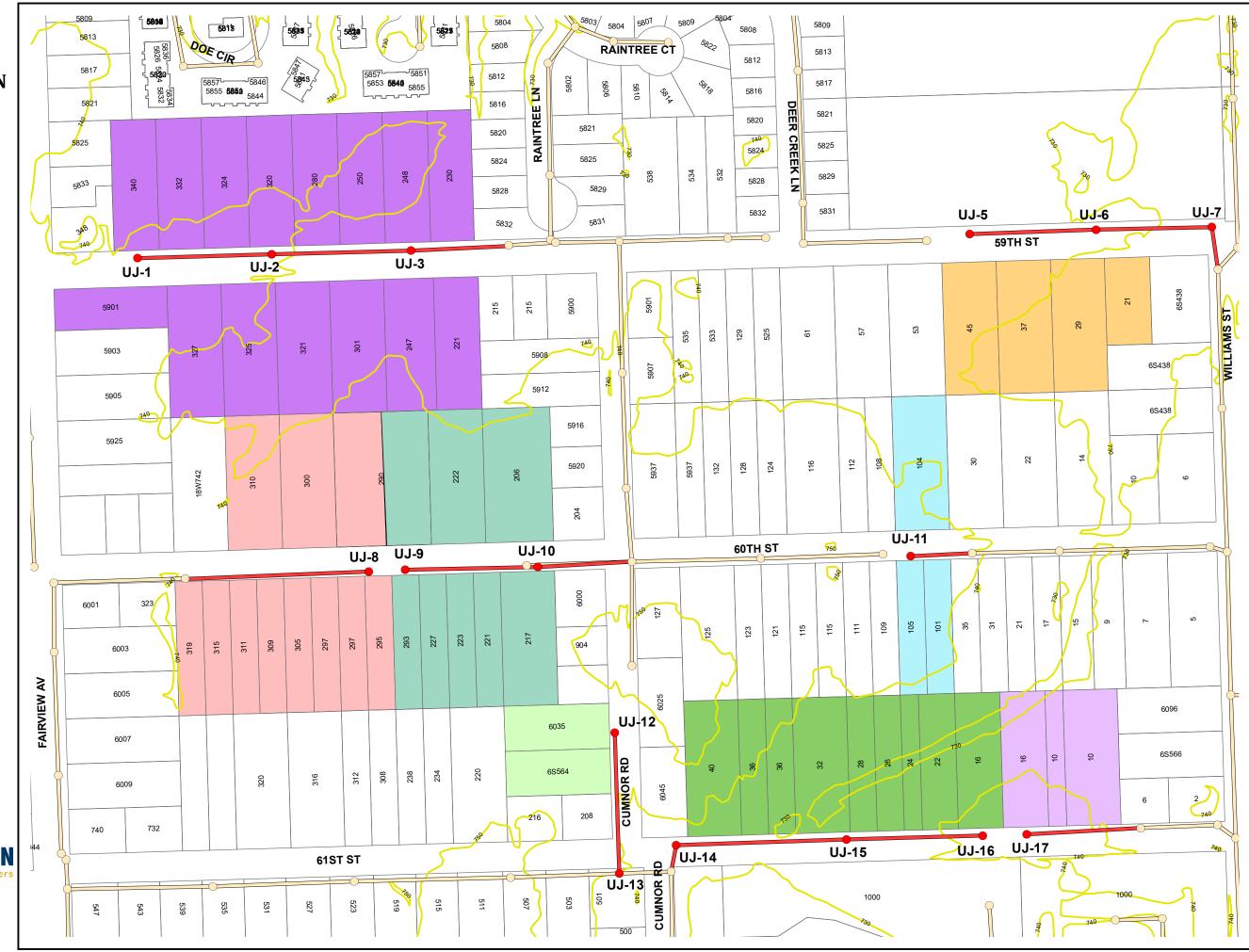


Table 4.10-1

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
59th (West)

Preliminary Design Layout

	Manhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	<u>Slope</u>	Manhole <u>Depth</u>
59th Street	G-5-093 (existing)	736.0	723.50			12.5
	UJ-3	736.0	726.69	230	1.39%	9.3
				300	1.10%	
	UJ-2	740.0	729.99	300	1.00%	10.0
	UJ-1	741.0	732.99			8.0

Table 4.10-2

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

59th (West)

Engineer's Opinion of Probable Construction Cost

	Approximate			te		Unit		
No.	Pay Item		Quantity			Price	Amount	
MAINLIN	NE SEWER							
1	SANITARY SEWER	R (OPEN CUT) 8-12 feet deep	830	lin. ft.	\$	86.00	\$ 71,380.00	
2	SANITARY MANHO 48-inch	DLES 8-12 feet deep	3	each	\$	6,300.00	\$ 18,900.00	
3	CONNECTION TO 8-inch	EXISTING MANHOLI	E 1	each	\$	6,100.00	\$ 6,100.00	
4	TRENCH BACKFIL 8-inch	L 8-12 feet deep	140	lin. ft.	\$	112.00	\$ 15,680.00	
5	TREE TUNNELING	;	130	lin. ft.	\$	190.00	\$ 24,700.00	
6	SEWER TELEVISI	NG FOR FINAL INSP	ECTION 830	lin. ft.	\$	2.50	\$ 2,075.00	
7	SEWER TESTING	FOR FINAL INSPECT	FION 830	lin. ft.	\$	2.50	\$ 2,075.00	
8	CULVERT REMOV 12-inch	AL AND REPLACEM	ENT 90	lin. ft.	\$	80.00	\$ 7,200.00	
9	RESTORATION OF AND PARKWAYS: Topsoil and s		1,533	sq.yd.	\$	14.00	\$ 21,462.00	
10	RESTORATION OF Bit. Concrete S		0	sq.yd.	\$	63.00	\$ 0.00	
11	REMOVE AND RE Bituminous Aggregate	PLACE DRIVEWAYS	160 18	sq.yd. sq.yd.	\$ \$	48.00 20.00	\$ 7,680.00 360.00	

Table 4.10-2

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
59th (West)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxima Quantity	te	Unit Price	Amount	
						_
12	TREE REMOVAL AND TRIMMING	3 :		Lump Sum	\$	1,974.00
13	EROSION CONTROL			Lump Sum	\$	658.00
14	TRAFFIC CONTROL:			Lump Sum	\$	1,974.00
	SUBTOTAL				\$	182,218.00
SERVIC	E LATERALS					
1	BUILDING SERVICE LINES Near side Far side	80 350	lin. ft. lin. ft.	\$ 49.00 \$ 49.00	\$	3,920.00 17,150.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	8 7	each each	\$ 548.00 \$ 675.00	\$ \$	4,384.00 4,725.00
3	BUILDING SERVICE PLUG:	15	each	\$ 206.00	\$	3,090.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	400	sq.yd.	\$ 14.00	\$	5,600.00
5	RESTORATION OF STREETS: Bit. Concrete Street	137	sq.yd.	\$ 62.00	\$	8,494.00
6	TRENCH BACKFILL 0-8 feet deep	182	lin. ft.	\$ 61.00	\$	11,102.00
	SUBTOTAL				\$	58,465.00
	TOTAL ESTIMATE OF CONS	TRUCTION COST	Γ		\$	240,700.00
		Contingencies Engineering Legal / Admin	(20%) (20%) (6%)	2.00		\$48,100.00 \$48,100.00 \$20,200.00
	TOTAL OPINION OF PROBA	BLE COST			\$	357,100.00
				Cost per lo	ot	\$23,810.00

Table 4.10-3

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
59th (East)

Preliminary Design Layout

	Manhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
59th Street						
	W-1-13 (existing)	728.0	714.68			13.3
	UJ-7	728.0	717.48	56	5.00%	10.5
	UJ-6	731.0	721.98	300	1.50%	9.0
				280	1.50%	
	UJ-5	737.0	726.18			10.8

Table 4.10-4

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
59th (East)

Engineer's Opinion of Probable Construction Cost

Approximate

		Approximate		Unit				
No.	Pay Item		Quantity			Price		Amount
MAINLIN	NE SEWER							
1	SANITARY SEWI	ER (OPEN CUT)						
	8-inch	8-12 feet deep	620	lin. ft.	\$	86.00	\$	53,320.00
		12-16 feet deep	16	lin. ft.	\$	105.00	\$	1,680.00
2	SANITARY MANI	HOLES						
_	48-inch	8-12 feet deep	3	each	\$	6,300.00	\$	18,900.00
		12-16 feet deep	0	each	\$	7,600.00	\$	0.00
_			_					_
3	CONNECTION TO 8-inch	O EXISTING MANHOLE	= 1	each	\$	6,100.00	\$	6,100.00
	0-111011		ı	eacm	Φ	6,100.00	Φ	6,100.00
4	TRENCH BACKF	ILL						
	8-inch	8-12 feet deep	620	lin. ft.	\$	112.00	\$	69,440.00
		12-16 feet deep	16	lin. ft.	\$	136.00	\$	2,176.00
5	TREE TUNNELIN	IG	0	lin. ft.	\$	190.00	\$	0.00
6	QEWED TELEVIO	SING FOR FINAL INSPI	ECTION					
O	SEWEN TELEVIO	DING FOR FINAL INSFI	636	lin. ft.	\$	2.50	\$	1,590.00
					<u>*</u>		<u> </u>	.,
7	SEWER TESTING	G FOR FINAL INSPECT	_					
			636	lin. ft.	\$	2.50	\$	1,590.00
8	CULVERT REMO	VAL AND REPLACEM	ENT					
	12-inch	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0	lin. ft.	\$	80.00	\$	0.00
_								
9	RESTORATION (AND PARKWAYS							
	Topsoil and		50	sq.yd.	\$	14.00	\$	700.00
				04.70.	<u> </u>		<u> </u>	
10	RESTORATION (_		_	
	Bit. Concrete	Street	565	sq.yd.	\$	63.00	\$	35,595.00
11	REMOVE AND R	EPLACE DRIVEWAYS						
	Bituminous		0	sq.yd.	\$	48.00	\$	0.00

Table 4.10-4

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
59th (East)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxima Quantity	te	Unit Price		Amount	
12	TRAFFIC CONTROL:			Lump Sur	n	\$	4,606.00
	SUBTOTAL					\$	195,697.00
SERVIC	E LATERALS						
1	BUILDING SERVICE LINES Near side Far side	100 0	lin. ft. lin. ft.	<u>\$</u> \$	49.00 49.00	\$ \$	4,900.00 0.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	4 0	each each		548.00 675.00	\$ \$	2,192.00 0.00
3	BUILDING SERVICE PLUG:	4	each	\$ 2	206.00	\$	824.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	91	sq.yd.	\$	14.00	\$	1,274.00
5	RESTORATION OF STREETS: PCC Curb & Gutter	40	lin. ft.	\$	36.00	\$	1,440.00
6	TRENCH BACKFILL 0-8 feet deep	40	lin. ft.	\$	61.00	\$	2,440.00
	SUBTOTAL					\$	13,070.00
	TOTAL ESTIMATE OF CON	STRUCTION COST	Γ			\$	208,800.00
		Contingencies Engineering Legal / Admin	(20%) (20%) (6%)				\$41,800.00 \$41,800.00 \$17,500.00
	TOTAL OPINION OF PROBA	ABLE COST				\$	309,900.00
				Co	st per lo	ot	\$77,480.00

Table 4.10-5

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
60th (West)

Preliminary Design Layout

	Manhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
60th St	reet					
	W-1-104-E (existing)	741.2	735.84	400	0.40%	5.3
	UJ-8	746.0	737.44	.00	0.1070	8.6

Table 4.10-6

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

60th (West)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item		Approxima Quantity	te		Unit Price		Amount
	·		Quantity			1 1100		Amount
MAINLIN	IE SEWER							
1	SANITARY SEWE	•			_		_	
	8-inch	0-8 feet deep 8-12 feet deep	150 250	lin. ft. lin. ft.	<u>\$</u> \$	74.00 86.00	\$ \$	11,100.00 21,500.00
		6-12 leet deep	250	III I. I (.	φ	80.00	φ	21,300.00
2	SANITARY MANH							
	48-inch	0-8 feet deep	0	each	\$	4,800.00	<u>\$</u> \$	0.00
		8-12 feet deep	1	each	\$	6,300.00	<u>\$</u>	6,300.00
3	CONNECTION TO	EXISTING MANHOL	.E					
	8-inch		1	each	\$	6,100.00	\$	6,100.00
4	TRENCH BACKFI	11						
7	8-inch	8-12 feet deep	160	lin. ft.	\$	112.00	\$	17,920.00
_		_			_		_	
5	TREE TUNNELIN	G	100	lin. ft.	\$	190.00	\$	19,000.00
6	SEWER TELEVIS	ING FOR FINAL INSF	PECTION					
			400	lin. ft.	\$	2.50	\$	1,000.00
7	SEWIED TESTING	FOR FINAL INSPEC	TION					
,	SEVVER LESTING	FOR FINAL INSPEC	400	lin. ft.	\$	2.50	\$	1,000.00
					<u> </u>		<u> </u>	1,00000
8		VAL AND REPLACEN		U 60	Φ.	00.00	Φ.	0.400.00
	12-inch		105	lin. ft.	\$	80.00	\$	8,400.00
9	RESTORATION C	F LAWNS						
	AND PARKWAYS				•	4400	•	40.000.00
	Topsoil and	sod	733	sq.yd.	\$	14.00	\$	10,262.00
10	RESTORATION C	F STREETS:						
	Bit. Concrete	Street	0	sq.yd.	\$	63.00	\$	0.00
11	REMOVE AND RE	EPLACE DRIVEWAYS	;					
	Bituminous	L. OL DINIVEVVATO	100	sq.yd.	\$	48.00	\$	4,800.00
	Aggregate		9	sq.yd.	\$	20.00	\$ \$	180.00
12	TREE REMOVAL	AND TRIMMING:			Lum	Sum	\$	2,303.00
12	TREE REMOVAL	AND TRIMMING:			Lump	Sum	\$	2,303.00

Table 4.10-6

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
60th (West)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxima Quantity			Unit Price		Amount
13	EROSION CONTROL			Lump	Sum	\$	658.00
14	TRAFFIC CONTROL:			Lump	Sum	\$	1,974.00
	SUBTOTAL					\$	112,497.00
SERVIC	E LATERALS						
1	BUILDING SERVICE LINES Near side Far side	128 150	lin. ft. lin. ft.	\$ \$	49.00 49.00	<u>\$</u>	6,272.00 7,350.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	8 3	each each	<u>\$</u> \$	548.00 675.00	\$	4,384.00 2,025.00
3	BUILDING SERVICE PLUG:	11	each	\$	206.00	\$	2,266.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	222	sq.yd.	<u>\$</u>	14.00	\$	3,108.00
5	RESTORATION OF STREETS: Bit. Concrete Street	61	sq.yd.	\$	62.00	\$	3,782.00
6	TRENCH BACKFILL 0-8 feet deep	81	lin. ft.	\$	61.00	\$	4,941.00
	SUBTOTAL					\$	34,128.00
	TOTAL ESTIMATE OF CONS	STRUCTION COST	Γ			\$	146,600.00
		Contingencies Engineering Legal / Admin	(20%) (20%) (6%)				\$29,300.00 \$29,300.00 \$12,300.00
	TOTAL OPINION OF PROBA	ABLE COST				\$	217,500.00
					Cost per lo	ot	\$19,770.00

Table 4.10-7

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
60th and Cumnor

Preliminary Design Layout

	Manhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	<u>Slope</u>	Manhole <u>Depth</u>
60th Stree	<u>t</u>					
	G-5-095 (existing)	747.0	735.10	267	0.40%	11.9
	UJ-9	745.0	736.17	207	0.4070	8.8

Table 4.10-8

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
60th and Cumnor

Engineer's Opinion of Probable Construction Cost

No.	Pay Item		Approxima Quantity	te		Unit Price		Amount
	·		Quantity			FIICE		Amount
MAINLIN	IE SEWER							
1	SANITARY SEWE 8-inch	R (OPEN CUT) 8-12 feet deep	267	lin. ft.	\$	86.00	\$	22,962.00
2	SANITARY MANHO 48-inch	OLES 8-12 feet deep	1	each	\$	6,300.00	\$	6,300.00
3	CONNECTION TO 8-inch	EXISTING MANHOLE	≣ 1	each	\$	6,100.00	\$	6,100.00
4	TRENCH BACKFIL 8-inch	L 8-12 feet deep	60	lin. ft.	\$	112.00	\$	6,720.00
5	TREE TUNNELING	3	50	lin. ft.	\$	190.00	\$	9,500.00
6	SEWER TELEVISI	NG FOR FINAL INSPI	ECTION 267	lin. ft.	\$	2.50	\$	667.50
7	SEWER TESTING	FOR FINAL INSPECT	TION 267	lin. ft.	\$	2.50	\$	667.50
8	CULVERT REMOV	'AL AND REPLACEMI	ENT 60	lin. ft.	\$	80.00	\$	4,800.00
9	RESTORATION O AND PARKWAYS: Topsoil and s		378	sq.yd.	\$	14.00	\$	5,292.00
10	RESTORATION O Bit. Concrete S		0	sq.yd.	\$	63.00	\$	0.00
11	REMOVE AND RE Bituminous Aggregate	PLACE DRIVEWAYS	76 16	sq.yd. sq.yd.	\$ \$	48.00 20.00	\$ \$	3,648.00 320.00
12	TREE REMOVAL	AND TRIMMING:			Lum	p Sum	\$	1,974.00

Table 4.10-8

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
60th and Cumnor

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxima Quantity			Unit Price		Amount
13	EROSION CONTROL			Lump	Sum	\$	658.00
14	TRAFFIC CONTROL:			Lump	Sum	\$	1,974.00
	SUBTOTAL					\$	71,583.00
SERVIC	E LATERALS						
1	BUILDING SERVICE LINES Near side Far side	64 150	lin. ft. lin. ft.	\$ \$	49.00 49.00	<u>\$</u>	3,136.00 7,350.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	4 3	each each	\$ \$	548.00 675.00	\$ \$	2,192.00 2,025.00
3	BUILDING SERVICE PLUG:	7	each	\$	206.00	\$	1,442.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	178	sq.yd.	\$	14.00	\$	2,492.00
5	RESTORATION OF STREETS: Bit. Concrete Street	64	sq.yd.	\$	62.00	\$	3,968.00
6	TRENCH BACKFILL 0-8 feet deep	84	lin. ft.	\$	61.00	\$	5,124.00
	SUBTOTAL					\$	27,729.00
	TOTAL ESTIMATE OF CONS	STRUCTION COST	Γ			\$	99,300.00
		Contingencies Engineering Legal / Admin	(20%) (20%) (6%)				\$19,900.00 \$19,900.00 \$8,300.00
	TOTAL OPINION OF PROBA	BLE COST				\$	147,400.00
					Cost per lo	ot	\$21,060.00

Table 4.10-9

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
60th (East)

Preliminary Design Layout

	Manhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
60th Street						
	G-6-155 (existing)	739.0	731.19	120	2.00%	7.8
	UJ-11	744.0	733.59	120	2.0070	10.4

Table 4.10-10

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

60th & Cumnor

Engineer's Opinion of Probable Construction Cost

No.	Pay Item		Approxima Quantity	te		Unit Price		Amount
	NE SEWER		Quartity			1 1100		7 till Galle
MAINLIN	NE SEVVER							
1	SANITARY SEWE							
	8-inch	0-8 feet deep	20	lin. ft.	\$	74.00	\$	1,480.00
		8-12 feet deep	100	lin. ft.	\$	86.00	\$	8,600.00
2	SANITARY MANH	IOLES						
	48-inch	0-8 feet deep	0	each	<u>\$</u>	4,800.00	<u>\$</u>	0.00
		8-12 feet deep	1	each	\$	6,300.00	\$	6,300.00
3	CONNECTION TO	EXISTING MANHOL	E					
	8-inch		1	each	\$	6,100.00	\$	6,100.00
4	TDENCLIDACKE							
4	TRENCH BACKFI 8-inch	8-12 feet deep	44	lin. ft.	\$	112.00	\$	4,928.00
	0 111011	5 12 100t d00p			<u> </u>	112.00	Ψ	1,020.00
5	TREE TUNNELIN	G	30	lin. ft.	\$	190.00	\$	5,700.00
6	SEWER TELEVIS	ING FOR FINAL INSP	FCTION					
			120	lin. ft.	\$	2.50	\$	300.00
7	OFWED TECTING	S COD CINAL INCDEO	TION					
7	SEVER LESTING	FOR FINAL INSPECT	110N 120	lin. ft.	\$	2.50	\$	300.00
			0		<u>*</u>		<u> </u>	
8		VAL AND REPLACEM			•	400.00	•	
	15-inch		30	lin. ft.	<u>\$</u>	102.00	\$	3,060.00
9	RESTORATION C	F LAWNS						
	AND PARKWAYS							
	Topsoil and	sod	244	sq.yd.	<u>\$</u>	14.00	\$	3,416.00
10	RESTORATION C	OF STREETS:						
	Bit. Concrete	Street	0	sq.yd.	\$	63.00	\$	0.00
11	REMOVE AND RE	EPLACE DRIVEWAYS						
11	Bituminous	I LAOL DINIVEVIATO	30	sq.yd.	\$	48.00	\$	1,440.00
	Aggregate		0	sq.yd.	\$	20.00	\$ \$	0.00
12	TREE REMOVAL	AND TRIMMING:			Lum	p Sum	\$	658.00
12	TALL INLINIO VAL	AND INIVIVIINO.			Luili	ip Outil	Ψ	030.00

Table 4.10-10

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
60th & Cumnor

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxima Quantity		Unit Price		Amount
13	EROSION CONTROL			Lump Sum	\$	329.00
14	TRAFFIC CONTROL:			Lump Sum	\$	658.00
	SUBTOTAL				\$	43,269.00
SERVICI	E LATERALS					
1	BUILDING SERVICE LINES Near side Far side	32 50	lin. ft. lin. ft.	\$ 49.00 \$ 49.00	\$ \$	1,568.00 2,450.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	2	each each	\$ 548.00 \$ 675.00	\$ \$	1,096.00 675.00
3	BUILDING SERVICE PLUG:	3	each	\$ 206.00	\$	618.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	67	sq.yd.	\$ 14.00	\$	938.00
5	RESTORATION OF STREETS: Bit. Concrete Street	21	sq.yd.	\$ 62.00	\$	1,302.00
6	TRENCH BACKFILL 0-8 feet deep	28	lin. ft.	\$ 61.00	\$	1,708.00
	SUBTOTAL				\$	10,355.00
	TOTAL ESTIMATE OF CONS	STRUCTION COST	Γ		\$	53,600.00
		Contingencies Engineering Legal / Admin	(20%) (20%) (6%)			\$10,700.00 \$10,700.00 \$4,500.00
	TOTAL OPINION OF PROBA	BLE COST			\$	79,500.00
				Cost per l	ot	\$26,500.00

Table 4.10-11

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Cumnor (South)

Preliminary Design Layout

	Manhole Number	Rim	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
Cumnor Ro	<u>ad</u>					
	UJ-13	740.0	728.50	220	2.00%	11.5
	UJ-12	746.0	735.10	330	2.00%	10.9

Table 4.10-12

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Cumnor (South)

Engineer's Opinion of Probable Construction Cost

Approximate Unit Price Quantity Amount No. Pay Item MAINLINE SEWER 1 SANITARY SEWER (OPEN CUT) 8-inch 0-8 feet deep 80 lin. ft. 74.00 5.920.00 8-12 feet deep 250 lin. ft. \$ 86.00 \$ 21,500.00 2 SANITARY MANHOLES 0-8 feet deep 0 48-inch each 4,800.00 \$ 0.00 8-12 feet deep 1 each \$ 6,300.00 \$ 6,300.00 CONNECTION TO EXISTING MANHOLE 8-inch \$ each 6,100.00 6,100.00 4 TRENCH BACKFILL 30 92.00 2,760.00 8-inch 0-8 feet deep lin. ft. \$ \$ 8-12 feet deep 50 lin. ft. 112.00 5,600.00 5 TREE TUNNELING lin. ft. \$ 190.00 \$ 0.00 6 SEWER TELEVISING FOR FINAL INSPECTION 330 lin. ft. 2.50 \$ 825.00 7 SEWER TESTING FOR FINAL INSPECTION 330 lin. ft. 2.50 \$ 825.00 8 CULVERT REMOVAL AND REPLACEMENT 12-inch 19 lin. ft. 80.00 \$ 1,520.00 9 RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod 600 sq.yd. 14.00 \$ 8,400.00 10 RESTORATION OF STREETS: Bit. Concrete Street 63.00 \$ 2,268.00 36 sq.yd. PCC Curb & Gutter 10 lin. ft. \$ 41.00 \$ 410.00 \$ \$ 13.00 650.00 PCC Sidewalk 50 sq. ft. 11 REMOVE AND REPLACE DRIVEWAYS **Bituminous** 76 sq.yd. 48.00 \$ 3,648.00 12 TREE REMOVAL AND TRIMMING: Lump Sum \$ 658.00

Table 4.10-12

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Cumnor (South)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxima Quantity			Unit Price		Amount
13	EROSION CONTROL			Lump	Sum	\$	329.00
14	TRAFFIC CONTROL:			Lump	Sum	\$	2,961.00
	SUBTOTAL					\$	70,674.00
SERVIC	E LATERALS						
1	BUILDING SERVICE LINES Near side Far side	32 0	lin. ft. lin. ft.	\$ \$	49.00 49.00	\$	1,568.00 0.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	2 0	each each	\$ \$	548.00 675.00	\$ \$	1,096.00 0.00
3	BUILDING SERVICE PLUG:	2	each	\$	206.00	\$	412.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	50	sq.yd.	\$	14.00	\$	700.00
5	RESTORATION OF STREETS: Bit. Concrete Street	0	sq.yd.	\$	62.00	\$	0.00
6	TRENCH BACKFILL 0-8 feet deep	0	lin. ft.	\$	61.00	\$	0.00
	SUBTOTAL					\$	3,776.00
	TOTAL ESTIMATE OF CON	STRUCTION COST	Γ			\$	74,500.00
		Contingencies Engineering Legal / Admin	(20%) (20%) (6%)				\$14,900.00 \$14,900.00 \$6,300.00
	TOTAL OPINION OF PROB	ABLE COST				\$	110,600.00
					Cost per lo	ot	\$55,300.00

Table 4.10-13

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
61st and Cumnor

Preliminary Design Layout

	Manhole Number	Rim	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
61st Street						
	W-1-41 (existing)	736.3	725.04	50	0.400/	11.3
	UJ-14	734.0	725.24	50	0.40%	8.8
	UJ-15	734.0	726.76	380	0.40%	7.2
				310	0.60%	–
	UJ-16	741.0	728.62			12.4

Table 4.10-14

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
61st and Cumnor

Engineer's Opinion of Probable Construction Cost

			te		Unit			
No.	Pay Item		Quantity			Price		Amount
MAINLIN	NE SEWER							
1	SANITARY SEWE	R (OPEN CUT)						
·	8-inch	0-8 feet deep	80	lin. ft.	\$	74.00	\$	5,920.00
		8-12 feet deep	660	lin. ft.	\$	86.00	\$	56,760.00
2	SANITARY MANH	OLES.						
2	48-inch	0-8 feet deep	1	each	¢	4,800.00	¢	4,800.00
	40-111011	8-12 feet deep	2	each	<u>\$</u> \$	6,300.00	<u>\$</u> \$	12,600.00
		0 12 100t doop	_	Caon	Ψ	0,000.00	Ψ	12,000.00
3	CONNECTION TO	EXISTING MANHOL	.E					
	8-inch		1	each	\$	6,100.00	\$	6,100.00
4	TRENCH BACKFII		00	P . 6	Φ.	00.00	Φ.	7,000,00
	8-inch	0-8 feet deep	80	lin. ft. lin. ft.	<u>\$</u> \$	92.00 112.00	<u>\$</u> \$	7,360.00
		8-12 feet deep	660	IIII. IL.	Φ	112.00	Φ	73,920.00
5	TREE TUNNELING	3	0	lin. ft.	\$	190.00	\$	0.00
						_		
6	SEWER TELEVIS	ING FOR FINAL INSP						
			740	lin. ft.	\$	2.50	\$	1,850.00
7	SEWED TESTING	FOR FINAL INSPEC	TION					
,	SEWER TESTING	FOR FINAL INSPEC	740	lin. ft.	\$	2.50	\$	1,850.00
			7 10		Ψ	2.00	Ψ	1,000.00
8	CULVERT REMOV	AL AND REPLACEM	IENT					
	12-inch		0	lin. ft.	\$	80.00	\$	0.00
_								
9	RESTORATION O							
	AND PARKWAYS: Topsoil and		33	sq.yd.	\$	14.00	\$	462.00
	ropson and s	50 u	33	sq.yu.	Ψ	14.00	Ψ	402.00
10	RESTORATION O	F STREETS:						
	Bit. Concrete	Street	658	sq.yd.	\$	63.00	\$	41,454.00
	PCC Curb & C		120	lin. ft.	\$ \$ \$	41.00	\$ \$ \$	4,920.00
	PCC Sidewalk	(50	sq. ft.	\$	13.00	\$	650.00
11	DEMOVE AND DE	PLACE DRIVEWAYS						
11	Bituminous	TLAGE DRIVEWAYS		sq.yd.	\$	48.00	\$	0.00
	Ditailinous		O	5 4. yu.	Ψ	10.00	Ψ	0.00
12	TREE REMOVAL	AND TRIMMING:			Lum	p Sum	\$	658.00

Table 4.10-14

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
61st and Cumnor

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity		Unit Price		Amount	
13	EROSION CONTROL			Lump	Sum	\$	1,974.00
14	TRAFFIC CONTROL:			Lump	Sum	\$	6,580.00
	SUBTOTAL					\$	227,858.00
SERVIC	E LATERALS						
1	BUILDING SERVICE LINES Near side Far side	336 0	lin. ft. lin. ft.	\$ \$	49.00 49.00	\$ \$	16,464.00 0.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	12 0	each each	<u>\$</u>	548.00 675.00	\$	6,576.00 0.00
3	BUILDING SERVICE PLUG:	12	each	\$	206.00	\$	2,472.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	300	sq.yd.	\$	14.00	\$	4,200.00
5	RESTORATION OF STREETS: Bit. Concrete Street	0	sq.yd.	\$	62.00	\$	0.00
6	TRENCH BACKFILL 0-8 feet deep	0	lin. ft.	\$	61.00	\$	0.00
	SUBTOTAL					\$	29,712.00
	TOTAL ESTIMATE OF CONS	STRUCTION COST	Γ			\$	257,600.00
		Contingencies Engineering Legal / Admin	(20%) (20%) (6%)				\$51,500.00 \$51,500.00 \$21,600.00
	TOTAL OPINION OF PROBA	ABLE COST				\$	382,200.00
					Cost per lo	ot	\$31,850.00

Table 4.10-15

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
61st (East)

Preliminary Design Layout

	Manhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	<u>Slope</u>	Manhole <u>Depth</u>
61st Street						
	G-6-155 (existing)	739.0	731.19	230	2.00%	7.8
	UJ-17	744.0	735.79	200	2.0070	8.2

Table 4.10-16

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
61st (East)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity			Unit Price		Amount	
110.	1 ay item		Quantity			THICE		Amount
MAINLINE SEWER								
1	SANITARY SEW	ER (OPEN CUT)						
	8-inch	0-8 feet deep	130	lin. ft.	\$	74.00	<u>\$</u> \$	9,620.00
		8-12 feet deep	100	lin. ft.	\$	86.00	\$	8,600.00
2	SANITARY MAN	HOLES						
	48-inch	0-8 feet deep	1	each	<u>\$</u> \$	4,800.00	<u>\$</u>	4,800.00
		8-12 feet deep	0	each	\$	6,300.00	\$	0.00
3	CONNECTION T	O EXISTING MANHOLE	E					
	8-inch		1	each	\$	6,100.00	\$	6,100.00
4	TRENCH BACKE	TILL						
	8-inch	0-8 feet deep	15	lin. ft.	\$	92.00	<u>\$</u> \$	1,380.00
		8-12 feet deep	15	lin. ft.	\$	112.00	\$	1,680.00
5	TREE TUNNELIN	1G	20	lin. ft.	\$	190.00	\$	3,800.00
6	SEWER TELEVI	SING FOR FINAL INSPI	ECTION					
			230	lin. ft.	\$	2.50	\$	575.00
7	SEWER TESTIN	G FOR FINAL INSPECT	ΓΙΟΝ					
			230	lin. ft.	\$	2.50	\$	575.00
8	CULVERT REMO	OVAL AND REPLACEMI	ENT					
	12-inch		20	lin. ft.	\$	80.00	\$	1,600.00
9	RESTORATION	OF LAWNS						
	AND PARKWAY						_	
	Topsoil and	I sod	444	sq.yd.	\$	14.00	\$	6,216.00
10								
	Bit. Concrete		0	sq.yd.	\$	63.00	\$	0.00
	PCC Curb & PCC Sidewa		0	lin. ft. sq. ft.	\$ \$ \$	41.00 13.00	\$ \$ \$	0.00
	r CC Sidewa	IIK.	U	5 4 . 11.	Ψ	13.00	Ψ	0.00
11		EPLACE DRIVEWAYS	4.5		•	40.00	•	22122
	Bituminous		13	sq.yd.	\$	48.00	\$	624.00
12	TREE REMOVAL	AND TRIMMING:			Lump	Sum	\$	1,316.00

Table 4.10-16

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
61st (East)

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity		Unit Price			Amount	
13	EROSION CONTROL			Lump Sum	1	\$	329.00	
14	TRAFFIC CONTROL:			Lump Sum	1	\$	2,632.00	
	SUBTOTAL					\$	49,847.00	
SERVICI	E LATERALS							
1	BUILDING SERVICE LINES Near side Far side	84 0	lin. ft. lin. ft.		49.00 49.00	\$	4,116.00 0.00	
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	3 0	each each		48.00 75.00	\$	1,644.00 0.00	
3	BUILDING SERVICE PLUG:	3	each	\$ 2	06.00	\$	618.00	
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	75	sq.yd.	\$	14.00	\$	1,050.00	
5	RESTORATION OF STREETS: Bit. Concrete Street	0	sq.yd.	\$	62.00	\$	0.00	
6	TRENCH BACKFILL 0-8 feet deep	0	lin. ft.	\$	61.00	\$	0.00	
	SUBTOTAL					\$	7,428.00	
TOTAL ESTIMATE OF CONSTRUCTION		STRUCTION COST	Г			\$	57,300.00	
		Contingencies Engineering Legal / Admin	(20%) (20%) (6%)				\$11,500.00 \$11,500.00 \$4,800.00	
	TOTAL OPINION OF PROBA	BLE COST				\$	85,100.00	
				Cos	st per lo	ot	\$28,370.00	

Table 4.10-17

Downers Grove Sanitary District

Possible Special Assessments for Sanitary Sewers
60th and Cumnor Sub-Area

Cost Summary

Sub-Basin:	Near Services	Far Services	Total Project Cost			Cost per lot
50(L (\A) (\)	0	7	Φ.	057.400.00	Φ.	00.040.00
59th (West)	8	1	\$	357,100.00	\$	23,810.00
59th (East)	4	0	\$	309,900.00	\$	77,480.00
60th (West)	8	3	\$	217,500.00	\$	19,770.00
60th and Cumnor	4	3	\$	147,400.00	\$	21,060.00
60th (East)	2	1	\$	79,500.00	\$	26,500.00
Cumnor (South)	2	0	\$	110,600.00	\$	55,300.00
61st and Cumnor	12	0	\$	382,200.00	\$	31,850.00
61st (East)	3	0	\$	85,100.00	\$	28,370.00
TOTALS	43	14	\$	1,689,300.00	\$	29,640.00
	5	7				

4.11 63rd Corridor

The 63rd Corridor is a sub-area within the District's FPA that is currently unsewered. As shown on Exhibit 4.11, the approximate limits of this sub-area are Carpenter Street to the west, 62nd Street to the north, Florence Avenue to the east, and 65th Street to the south. The proposed service area includes approximately 76 single-family residences with septic systems or vacant lots. The purpose of this analysis is to establish the most cost-effective sanitary sewer plan for serving all unsewered properties within the 63rd Corridor sub-area.

A number of factors were considered when determining the most cost-effective sewer layout. These factors include topography, major road crossings, easements, wetlands, tree protection, water main and existing utility location, and existing downstream sewer capacity. The 63rd Corridor sub-area contains a number of small pockets of unsewered lots that have multiple drainage divides. Serving the subject properties by following the ground contours will avoid deep cuts through the higher elevations along drainage divides. The study area can be divided into multiple smaller service areas in order to create the most cost effective plan.

In addition to following the ground contours, the low-cost sewer layout also needs to consider avoiding major road crossings. The three major road crossings that would significantly increase construction cost in this sub-area are 63rd Street, Main Street, and Fairview Avenue. Thus, alternatives were considered to minimize crossing of this route with both the mainline sewer and building services.

The Villages of Downers Grove and Westmont own and operate water mains on the streets within the sub-area. The water main design drawings were reviewed and field investigations of the sewer routes were completed to reduce the potential for utility conflicts and to ensure that the required ten feet of separation from water mains can be achieved.

The final component of this analysis was to evaluate the downstream capacity of the existing sewers. Our analysis determined that all of the existing sewers have adequate capacity to receive the additional flow from the 63rd Corridor sub-area.

For this analysis, the subject area was subdivided into smaller, more manageable sub-basins. The sub-basins were created using topography and projected sewer connection points.

The following are the proposed sub-basins:

Sub-basin	No. of Services	Layout	Cost Estimate
Carpenter and 63rd	8	Table 4.11-1	Table 4.11-2
Norfolk and Carpenter	8	Table 4.11-3	Table 4.11-4
Meadowlawn and Washington	28	Table 4.11-5	Table 4.11-6
63 rd and Lyman	7	Table 4.11-7	Table 4.11-8
Fairmount and 63rd	9	Table 4.11-9	Table 4.11-10
Blodgett and 62nd	1	Table 4.11-11	Table 4.11-12
63 rd and Osage	7	Table 4.11-13	Table 4.11-14
Grand Avenue	8	Table 4.11-15	Table 4.11-16

Table 4.11-17 is a summary table of opinions of probable cost. A map of the proposed sewer plan is included in Exhibit 4.11.

The Carpenter and 63rd sub-basin sewer plan follows the topography which falls west and south from Main Street and 63rd to Adelia and Carpenter. The existing sewers on the north side of 63rd and west side of Main Street are too shallow to serve this area. Thus, the sewer should be placed in the existing alley south of 63rd Street and on the east side of Carpenter to avoid the multiple existing utilities. Table 4.11-1 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.11-2 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$204,800, including contingency, engineering, and legal/administrative costs.

The Norfolk and Carpenter sub-basin topography falls from the ridge east of Carpenter, west along Norfolk and the sewer will need to flow west to the existing manhole on southwest corner of Carpenter and Norfolk. The sewer should match the alignment of the existing sewer in the south parkway. Table 4.11-3 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.11-4 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$159,500, including contingency, engineering, and legal/administrative costs.

The Meadowlawn and Washington sub-basin sewer plan follows the existing topography southeast to the existing manhole on Washington Street. The sewer should be placed in the south parkway of Meadowlawn, the east right-of-way of Washington, and an easement on 63rd to avoid the existing water main, IBC ducts, and power poles. The existing sewers to the west on 63rd and Meadowlawn are too shallow to serve this area. Table 4.11-5 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.11-6 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$833,600, including contingency, engineering, easements, and legal/administrative costs.

The 63rd and Lyman sub-basin sewer plan follows the topography east from 912 W. 63rd Street to the existing sewer on Lyman Avenue. This sewer will be parallel to a sewer on the south side of 63rd to avoid a large number of service crossings. This sewer should be placed in an easement to avoid the existing utilities in the parkway. This is the second most costly sub-basin because of the easements and the small number of serviceable lots. Table 4.11-7 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.11-8 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$355,500, including contingency, engineering, easements, and legal/administrative costs.

The Fairmount and 63rd sub-basin sewer plan will flow towards the existing manhole on the northeast corner of Fairmount and 63rd Street. The sewer on the south side of 63rd should be placed in easements, while the sewer on Fairmount will be placed in the pavement to avoid existing utilities. The existing sewer to the south on Fairmount is too shallow to serve this area. This sub-basin is the most costly because of augering under 63rd, the multiple easements, and the

low density of serviceable lots. Table 4.11-9 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.11-10 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$471,000, including contingency, engineering, easements, and legal/administrative costs.

The Blodgett and 62nd sub-basin sewer plan consists of a sewer extending east from Blodgett to serve only 535 W. 62nd Street. The existing sewer on Grand Avenue is not a possible connection point because the sewer is not deep enough. Table 4.11-11 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.11-12 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$46,100, including contingency, engineering, easements, and legal/administrative costs.

The 63rd and Osage sub-basin sewer plan will flow along the north side of 63rd Street from Blodgett to east of Osage Avenue. These properties along 63rd could not be served by the possible sewer on Grand Avenue or the existing sewer on Osage Avenue because of lack of adequate cover. This sewer should also be placed in an easement. The property at 630 W. 63rd Street is a lot that could be redeveloped at a later time and served by this sewer extension. Table 4.11-13 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.11-14 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$289,100, including contingency, engineering, easements, and legal/administrative costs.

The Grand Avenue sub-basin sewer plan will connect to the proposed 63rd and Osage sewer at 63rd and Grand. The existing sewer north of the intersection of Grand and 62nd is too shallow to adequately serve this area. The sewer should be placed in the east parkway between the sidewalk and pavement. Table 4.11-15 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.11-16 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$179,600, including contingency, engineering, and legal/administrative costs.

DOWNERS GROVE SANITARY DISTRICT UNSEWERED AREA PLAN

EXHIBIT 4.11

63rd CORRIDOR

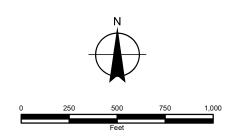
POSSIBLE SEWER ALIGNMENT

MARCH 2020

LEGEND

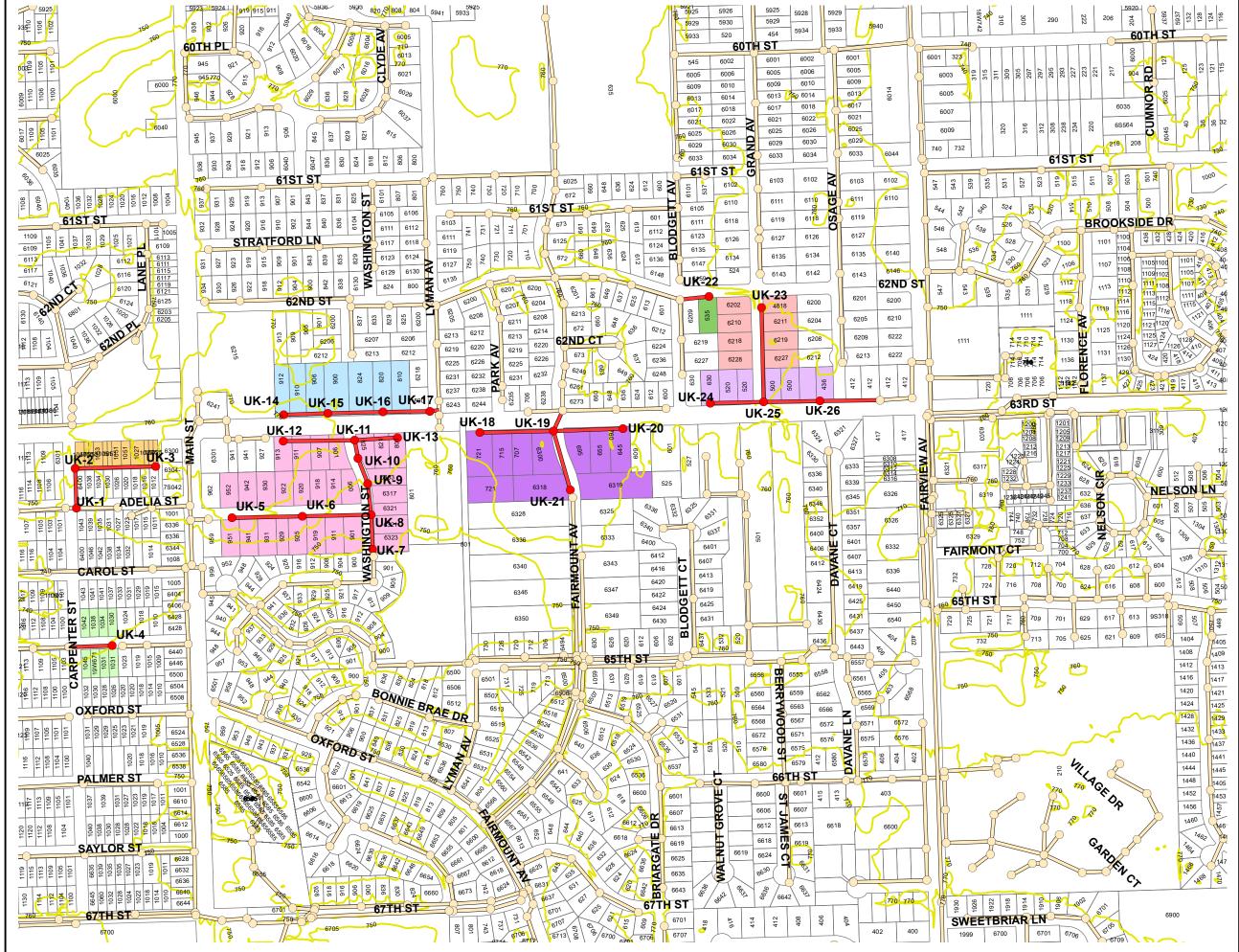
PROPOSED MANHOLES
PROPOSED SEWERS
EXISTING MANHOLES
EXISTING SEWERS
PARCEL BOUNDARIES
CARPENTER AND 63RD; TABLES 4.11-1, 4.11-2
NORFOLK AND CARPENTER; TABLES 4.11-3, 4.11-4
MEADOWLAWN AND WASHINGTON; TABLES 4.11-5, 4.11-6
63RD AND LYMAN; TABLES 4.11-7, 4.11-8
FAIRMOUNT AND 63RD; TABLES 4.11-9, 4.11-10
BLODGETT AND 62ND; TABLES 4.11-11, 4.11-12
63RD AND OSAGE; TABLES 4.11-13, 4.11-14

GRAND AVENUE; TABLES 4.11-15, 4.11-16





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4-11 63corr.mxd 563dks - 3/24/2020
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Table 4.11-1

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Carpenter and 63rd

Preliminary Design Layout

	Manhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	<u>Slope</u>	Manhole <u>Depth</u>
Carpenter	Street					
	UK-1	745.9	740.75	222	0.409/	5.1
	UK-2	750.0	741.64	223	0.40%	8.4
63rd Stree	<u>t</u>			420	2.400/	
	UK-3	767.0	754.97	430	3.10%	12.0

Table 4.11-2

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Carpenter and 63rd

Engineer's Opinion of Probable Construction Cost

		Approximate					
No.	Pay Item		Quantity		Price		Amount
MAINLIN	E SEWER						
1	SANITARY SEWE 8-inch	R (OPEN CUT) 0-8 feet deep 8-12 feet deep	223 430	lin. ft. lin. ft.	\$ 74.00 \$ 86.00	\$ \$	16,502.00 36,980.00
2	SANITARY MANH 48-inch	OLES 0-8 feet deep 8-12 feet deep	1 1	each each	\$ 4,800.00 \$ 6,300.00	\$ \$	4,800.00 6,300.00
3	CONNECTION TO 8-inch	EXISTING MANHOLE	1	each	\$ 6,100.00	\$	6,100.00
4	TRENCH BACKFII 8-inch	L 0-8 feet deep 8-12 feet deep	60 76	lin. ft. lin. ft.	\$ 92.00 \$ 112.00	\$ \$	5,520.00 8,512.00
5	TREE TUNNELING	3	60	lin. ft.	\$ 190.00	\$	11,400.00
6	SEWER TELEVIS	NG FOR FINAL INSPE	ECTION 653	lin. ft.	\$ 2.50	\$	1,632.50
7	SEWER TESTING	FOR FINAL INSPECT	TION 653	lin. ft.	\$ 2.50	\$	1,632.50
8	CULVERT REMOV	/AL AND REPLACEME	ENT 0	lin. ft.	\$ 80.00	\$	0.00
9	RESTORATION O AND PARKWAYS: Topsoil and		1,384	sq.yd.	\$ 14.00	\$	19,382.22
10	RESTORATION O Bit. Concrete	_	27	sq.yd.	\$ 63.00	\$	1,680.00
11	REMOVE AND RE Bituminous Aggregate	PLACE DRIVEWAYS	14 4	sq.yd. sq.yd.	\$ 48.00 \$ 20.00	\$ \$	682.67 88.89
12	TREE REMOVAL	AND TRIMMING:			Lump Sum	\$	2,632.00

Table 4.11-2

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Carpenter and 63rd

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approximate Quantity			Unit Price		Amount
13	EROSION CONTROL			Lump	Sum	\$	658.00
14	TRAFFIC CONTROL:			Lump	Sum	\$	1,316.00
15	SPECIAL RESTORATION:			Lump	Sum	\$	1,974.00
	SUBTOTAL					\$	127,792.78
SERVICE	ELATERALS						
1	BUILDING SERVICE LINES Near side Far side	60 0	lin. ft. lin. ft.	<u>\$</u> \$	49.00 49.00	<u>\$</u>	2,940.00 0.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	8 0	each each	\$ \$	548.00 675.00	\$ \$	4,384.00 0.00
3	BUILDING SERVICE PLUG:	8	each	\$	206.00	\$	1,648.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	89	sq.yd.	\$	14.00	\$	1,244.44
5	RESTORATION OF STREETS: Bit. Concrete Street	0	sq.yd.	\$	62.00	\$	0.00
6	TRENCH BACKFILL 0-8 feet deep	0	lin. ft.	\$	61.00	\$	0.00
	SUBTOTAL					\$	10,216.44
	TOTAL ESTIMATE OF CONS	STRUCTION COS	Т			\$	138,000.00
		Contingencies Engineering Legal / Admin	(20%) (20%) (6%)				\$27,600.00 \$27,600.00 \$11,600.00
	TOTAL OPINION OF PROBA	ABLE COST				\$	204,800.00
					Cost per lo	ot	\$25,600.00

Table 4.11-3

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Norfolk and Carpenter

Preliminary Design Layout

Manhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	<u>Slope</u>	Manhole <u>Depth</u>
Carpenter Street					
H-3-67-4 (existing)	745.6	738.50	230	0.40%	7.1
UK-4	748.0	739.42	200	0.1070	8.6

Table 4.11-4

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Norfolk and Carpenter

Engineer's Opinion of Probable Construction Cost

		Approximate		te					
No.	Pay Item		Quantity			Price		Amount	
MAINLIN	E SEWER								
1	SANITARY SEWI	ER (OPEN CUT)							
	8-inch	0-8 feet deep	60	lin. ft.	\$	74.00	\$	4,440.00	
		8-12 feet deep	170	lin. ft.	\$	86.00	\$	14,620.00	
2	SANITARY MANI	HOLES							
_	48-inch	0-8 feet deep	1	each	\$	4,800.00	\$	4,800.00	
		8-12 feet deep	0	each	\$ \$	6,300.00	\$ \$	0.00	
3	CONNECTION TO	O EXISTING MANHOL	Е						
3	8-inch	O EXISTING MAINHOL	.⊑ 1	each	\$	6,100.00	\$	6,100.00	
	0		•	ouon	<u> </u>	0,100.00	Ψ	0,100.00	
4	TRENCH BACKF								
	8-inch	0-8 feet deep	65	lin. ft.	<u>\$</u> \$	92.00	<u>\$</u> \$	5,980.00	
		8-12 feet deep	15	lin. ft.	<u>\$</u>	112.00	\$	1,680.00	
5	TREE TUNNELIN	IG	50	lin. ft.	\$	190.00	\$	9,500.00	
6	6 SEWER TELEVISING FOR FINAL INSPECTION								
Ū	021121111		230	lin. ft.	\$	2.50	\$	575.00	
_								_	
7	SEWER TESTING	G FOR FINAL INSPEC	230 230	lin. ft.	\$	2.50	¢	575.00	
			230	III I. IL.	φ	2.50	\$	373.00	
8	CULVERT REMO	VAL AND REPLACEM	IENT						
	12-inch		70	lin. ft.	\$	80.00	\$	5,600.00	
9	RESTORATION (OF LAWNS							
3	AND PARKWAYS	-							
	Topsoil and	sod	373	sq.yd.	\$	14.00	\$	5,222.00	
40	DECTODATION								
10	RESTORATION (Bit. Concrete		31	sq.yd.	\$	63.00	\$	1,953.00	
	Dit. Conorcio	Circoi	01	oq.yu.	Ψ	00.00	Ψ	1,000.00	
11		EPLACE DRIVEWAYS	3						
	Bituminous		16		<u>\$</u> \$	48.00	<u>\$</u> \$	768.00	
	Aggregate		0	sq.yd.	\$	20.00	\$	0.00	
12	TREE REMOVAL	AND TRIMMING:			Lum	p Sum	\$	1,316.00	

Table 4.11-4

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Norfolk and Carpenter

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxima Quantity			Unit Price		Amount
13	EROSION CONTROL			Lump	Sum	\$	329.00
14	TRAFFIC CONTROL:			Lump	Sum	\$	1,974.00
15	SPECIAL RESTORATION:			Lump	Sum	\$	987.00
16	WATER MAIN RELOCATION:	1	each	\$	7,000.00	\$	7,000.00
	SUBTOTAL					\$	73,419.00
SERVICE	LATERALS						
1	BUILDING SERVICE LINES Near side Far side	60 204	lin ft. lin ft.	\$ \$	49.00 49.00	\$	2,940.00 9,996.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	4 4	each each	\$ \$	548.00 675.00	\$	2,192.00 2,700.00
3	BUILDING SERVICE PLUG:	8	each	\$	206.00	\$	1,648.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	222	sq.yd.	\$	14.00	\$	3,108.00
5	RESTORATION OF STREETS: Bit. Concrete Street	75	sq.yd.	\$	62.00	\$	4,650.00
6	TRENCH BACKFILL 0-8 feet deep	112	lin. ft.	\$	61.00	\$	6,832.00
	SUBTOTAL					\$	34,066.00
	TOTAL ESTIMATE OF CONS	STRUCTION COS	Г			\$	107,500.00
		Contingencies Engineering Legal / Admin	(20%) (20%) (6%)				\$21,500.00 \$21,500.00 \$9,000.00
	TOTAL OPINION OF PROBA	BLE COST				\$	159,500.00
					Cost per lo	ot	\$19,940.00

Table 4.11-5

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Meadowlawn and Washington

Preliminary Design Layout

	Manhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	<u>Slope</u>	Manhole <u>Depth</u>
Washington	n Street					
	H-6-55 (existing)	754.1	746.44			7.7
	UK-7	755.0	746.60	40	0.40%	8.4
	UK-8	755.5	747.44	210	0.40%	8.1
	UK-9	760.0	748.56	140	0.80%	11.4
	UK-10	766.0	752.80	265	1.60%	13.2
	UK-11	768.0	753.44	40	1.60%	14.6
	UK-11	700.0	755.44			14.0
<u>Meadowlav</u>	vn Avenue					
	UK-6	764.0	753.44	400	1.50%	10.6
	UK-5	770.0	759.07	375	1.50%	10.9
63rd Street				400	1.50%	
	UK-12	772.0	759.44			12.6
	UK-13	763.0	754.52	270	0.40%	8.5

Table 4.11-6

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Meadowlawn and Washington

Engineer's Opinion of Probable Construction Cost

No. Pay Item			Approximate						
1 SANITARY SEWER (OPEN CUT) 8-inch	No.	Pay Item		Quantity			Price		Amount
1 SANITARY SEWER (OPEN CUT) 8-inch		IE OEWED							
8-inch	MAINLIN	IE SEWER							
8-inch	1	SANITARY SEW	/FR (OPEN CUT)						
8-12 feet deep 1,810 lin. ft. \$ 86.00 \$ 155,660.00 \$ 12-16 feet deep 290 lin. ft. \$ 105.00 \$ 30,450.00 \$ \$ 30,450.00 \$ \$ 30,450.00 \$ \$ 30,450.00 \$ \$ 30,450.00 \$ \$ 4,800.00 \$ 4,800.00 \$ 42,800.00 \$ 12-16 feet deep 6 each \$ 6,300.00 \$ 37,800.00 \$ 12-16 feet deep 2 each \$ 7,600.00 \$ 15,200.00 \$ 15,200.00 \$ 12-16 feet deep 520 lin. ft. \$ 112.00 \$ 13,600.00 \$ 12-16 feet deep 100 lin. ft. \$ 190.00 \$ 39,900.00 \$ 12-16 feet deep 100 lin. ft. \$ 190.00 \$ 39,900.00 \$ 15,200.00 \$ 15,200.00 \$ \$ 15,200.00 \$ 15,200.00 \$ \$ 15,200.00 \$ \$ 15,200.00 \$ \$ 15,200.00 \$ \$ 15,200.	•			40	lin. ft.	\$	74.00	\$	2.960.00
12-16 feet deep		0						\$	
48-inch			•	•		\$		\$	
48-inch		0.1.117.15.4.1.1.1				<u>-</u>			
8-12 feet deep 6 each \$ 6,300.00 \$ 37,800.00 \$ 15,200.00 \$	2			4		Φ.	4 000 00	Φ.	4 000 00
3 CONNECTION TO EXISTING MANHOLE 8-inch 1 each \$ 6,100.00 \$ 6,100.00 4 TRENCH BACKFILL 8-inch 0-8 feet deep 520 lin. ft. \$ 92.00 \$ 2,300.00 8-12 feet deep 520 lin. ft. \$ 112.00 \$ 58,240.00 12-16 feet deep 100 lin. ft. \$ 136.00 \$ 13,600.00 5 TREE TUNNELING 210 lin. ft. \$ 190.00 \$ 39,900.00 6 SEWER TELEVISING FOR FINAL INSPECTION 2,140 lin. ft. \$ 2.50 \$ 5,350.00 7 SEWER TESTING FOR FINAL INSPECTION 2,140 lin. ft. \$ 2.50 \$ 5,350.00 8 CULVERT REMOVAL AND REPLACEMENT 12-inch 80 lin. ft. \$ 80.00 \$ 6,400.00 9 RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod 3,422 sq.yd. \$ 14.00 \$ 47,908.00 10 RESTORATION OF STREETS: Bit. Concrete Street 93 sq.yd. \$ 63.00 \$ 5,859.00		48-inch				<u>\$</u>		\$	
3 CONNECTION TO EXISTING MANHOLE 8-inch 1 each \$ 6,100.00 \$ 6,100.00 4 TRENCH BACKFILL 8-inch 0-8 feet deep 520 lin. ft. \$ 92.00 \$ 2,300.00 8-12 feet deep 520 lin. ft. \$ 112.00 \$ 58,240.00 12-16 feet deep 100 lin. ft. \$ 136.00 \$ 13,600.00 5 TREE TUNNELING 210 lin. ft. \$ 190.00 \$ 39,900.00 6 SEWER TELEVISING FOR FINAL INSPECTION 2,140 lin. ft. \$ 2.50 \$ 5,350.00 7 SEWER TESTING FOR FINAL INSPECTION 2,140 lin. ft. \$ 2.50 \$ 5,350.00 8 CULVERT REMOVAL AND REPLACEMENT 12-inch 80 lin. ft. \$ 80.00 \$ 6,400.00 9 RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod 3,422 sq.yd. \$ 14.00 \$ 47,908.00 10 RESTORATION OF STREETS: Bit. Concrete Street 93 sq.yd. \$ 63.00 \$ 5,859.00			•			<u>\$</u>		<u>\$</u>	
8-inch 1 each \$ 6,100.00 \$ 6,100.00			12-16 feet deep	2	eacn	<u> </u>	7,600.00	<u>\$</u>	15,200.00
4 TRENCH BACKFILL 8-inch	3	CONNECTION	TO EXISTING MANHO	DLE					
8-inch					each	\$	6,100.00	\$	6,100.00
8-inch									
8-12 feet deep 520 lin. ft. \$ 112.00 \$ 58,240.00 \$ 13,600.00 \$ 13,600.00 \$ 5 TREE TUNNELING 210 lin. ft. \$ 190.00 \$ 39,900.00 \$ SEWER TELEVISING FOR FINAL INSPECTION 2,140 lin. ft. \$ 2.50 \$ 5,350.00 \$ 5,350.00 \$ \$ 6,400.00 \$ \$ RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod 3,422 sq.yd. \$ 14.00 \$ 47,908.00 \$ 10 RESTORATION OF STREETS: Bit. Concrete Street 93 sq.yd. \$ 63.00 \$ 5,859.00	4					_		_	
5 TREE TUNNELING 210 lin. ft. \$ 190.00 \$ 39,900.00 6 SEWER TELEVISING FOR FINAL INSPECTION 2,140 lin. ft. \$ 2.50 \$ 5,350.00 7 SEWER TESTING FOR FINAL INSPECTION 2,140 lin. ft. \$ 2.50 \$ 5,350.00 8 CULVERT REMOVAL AND REPLACEMENT 12-inch 80 lin. ft. \$ 80.00 \$ 6,400.00 9 RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod 3,422 sq.yd. \$ 14.00 \$ 47,908.00 10 RESTORATION OF STREETS: Bit. Concrete Street 93 sq.yd. \$ 63.00 \$ 5,859.00		8-inch	•			\$		\$	
5 TREE TUNNELING 210 lin. ft. \$ 190.00 \$ 39,900.00 6 SEWER TELEVISING FOR FINAL INSPECTION 2,140 lin. ft. \$ 2.50 \$ 5,350.00 7 SEWER TESTING FOR FINAL INSPECTION 2,140 lin. ft. \$ 2.50 \$ 5,350.00 8 CULVERT REMOVAL AND REPLACEMENT 12-inch 80 lin. ft. \$ 80.00 \$ 6,400.00 9 RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod 3,422 sq.yd. \$ 14.00 \$ 47,908.00 10 RESTORATION OF STREETS: Bit. Concrete Street 93 sq.yd. \$ 63.00 \$ 5,859.00			•			\$		\$	
6 SEWER TELEVISING FOR FINAL INSPECTION 2,140 lin. ft. \$ 2.50 \$ 5,350.00 7 SEWER TESTING FOR FINAL INSPECTION 2,140 lin. ft. \$ 2.50 \$ 5,350.00 8 CULVERT REMOVAL AND REPLACEMENT 12-inch 80 lin. ft. \$ 80.00 \$ 6,400.00 9 RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod 3,422 sq.yd. \$ 14.00 \$ 47,908.00 10 RESTORATION OF STREETS: Bit. Concrete Street 93 sq.yd. \$ 63.00 \$ 5,859.00			12-16 feet deep	100	lin. ft.	\$	136.00	\$	13,600.00
2,140 lin. ft. \$ 2.50 \$ 5,350.00 7 SEWER TESTING FOR FINAL INSPECTION 2,140 lin. ft. \$ 2.50 \$ 5,350.00 8 CULVERT REMOVAL AND REPLACEMENT 12-inch 80 lin. ft. \$ 80.00 \$ 6,400.00 9 RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod 3,422 sq.yd. \$ 14.00 \$ 47,908.00 10 RESTORATION OF STREETS: Bit. Concrete Street 93 sq.yd. \$ 63.00 \$ 5,859.00 11 REMOVE AND REPLACE DRIVEWAYS	5	TREE TUNNELI	NG	210	lin. ft.	\$	190.00	\$	39,900.00
2,140 lin. ft. \$ 2.50 \$ 5,350.00 7 SEWER TESTING FOR FINAL INSPECTION 2,140 lin. ft. \$ 2.50 \$ 5,350.00 8 CULVERT REMOVAL AND REPLACEMENT 12-inch 80 lin. ft. \$ 80.00 \$ 6,400.00 9 RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod 3,422 sq.yd. \$ 14.00 \$ 47,908.00 10 RESTORATION OF STREETS: Bit. Concrete Street 93 sq.yd. \$ 63.00 \$ 5,859.00 11 REMOVE AND REPLACE DRIVEWAYS	6	SEMED TELEM	ISINO EOD EINIAL INIG	PRECTION					
7 SEWER TESTING FOR FINAL INSPECTION 2,140 lin. ft. \$ 2.50 \$ 5,350.00 8 CULVERT REMOVAL AND REPLACEMENT 12-inch 80 lin. ft. \$ 80.00 \$ 6,400.00 9 RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod 3,422 sq.yd. \$ 14.00 \$ 47,908.00 10 RESTORATION OF STREETS: Bit. Concrete Street 93 sq.yd. \$ 63.00 \$ 5,859.00 11 REMOVE AND REPLACE DRIVEWAYS	O	SEWER TELEVI	ISING FOR FINAL INC		lin ft	\$	2 50	\$	5 350 00
2,140 lin. ft. \$ 2.50 \$ 5,350.00 8 CULVERT REMOVAL AND REPLACEMENT 12-inch 80 lin. ft. \$ 80.00 \$ 6,400.00 9 RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod 3,422 sq.yd. \$ 14.00 \$ 47,908.00 10 RESTORATION OF STREETS: Bit. Concrete Street 93 sq.yd. \$ 63.00 \$ 5,859.00				2,140		Ψ	2.50	Ψ	3,330.00
8 CULVERT REMOVAL AND REPLACEMENT 12-inch 80 lin. ft. \$ 80.00 \$ 6,400.00 9 RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod 3,422 sq.yd. \$ 14.00 \$ 47,908.00 10 RESTORATION OF STREETS: Bit. Concrete Street 93 sq.yd. \$ 63.00 \$ 5,859.00	7	SEWER TESTIN	IG FOR FINAL INSPE	CTION					
12-inch 80 lin. ft. \$ 80.00 \$ 6,400.00 9 RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod 3,422 sq.yd. \$ 14.00 \$ 47,908.00 10 RESTORATION OF STREETS: Bit. Concrete Street 93 sq.yd. \$ 63.00 \$ 5,859.00 11 REMOVE AND REPLACE DRIVEWAYS				2,140	lin. ft.	\$	2.50	\$	5,350.00
12-inch 80 lin. ft. \$ 80.00 \$ 6,400.00 9 RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod 3,422 sq.yd. \$ 14.00 \$ 47,908.00 10 RESTORATION OF STREETS: Bit. Concrete Street 93 sq.yd. \$ 63.00 \$ 5,859.00 11 REMOVE AND REPLACE DRIVEWAYS									
9 RESTORATION OF LAWNS AND PARKWAYS:	8		OVAL AND REPLACE		l: £ £	Φ	00.00	Φ.	0.400.00
AND PARKWAYS:		12-Inch		80	iin. it.	<u> </u>	80.00	Ф	6,400.00
Topsoil and sod 3,422 sq.yd. \$ 14.00 \$ 47,908.00 10 RESTORATION OF STREETS: Bit. Concrete Street 93 sq.yd. \$ 63.00 \$ 5,859.00 11 REMOVE AND REPLACE DRIVEWAYS	9	RESTORATION	OF LAWNS						
10 RESTORATION OF STREETS: Bit. Concrete Street 93 sq.yd. \$ 63.00 \$ 5,859.00 11 REMOVE AND REPLACE DRIVEWAYS		AND PARKWAY	S:						
Bit. Concrete Street 93 sq.yd. <u>\$ 63.00</u> <u>\$ 5,859.00</u> 11 REMOVE AND REPLACE DRIVEWAYS		Topsoil an	d sod	3,422	sq.yd.	\$	14.00	\$	47,908.00
Bit. Concrete Street 93 sq.yd. <u>\$ 63.00</u> <u>\$ 5,859.00</u> 11 REMOVE AND REPLACE DRIVEWAYS	10	RESTORATION	OF STREETS:						
11 REMOVE AND REPLACE DRIVEWAYS	10			93	sa vd	\$	63 00	\$	5 859 00
		Dit. Conorce	0 011001	55	oq.yu.	Ψ	50.00	Ψ	3,000.00
Bituminous 144 sq.yd. \$ 48.00 \$ 6,912.00 Aggregate 10 sq.yd. \$ 20.00 \$ 200.00	11	REMOVE AND F	REPLACE DRIVEWAY	′S					
Aggregate 10 sq.yd. \$\frac{\$ 20.00}{\$}\$ 200.00		Bituminous		144	sq.yd.	\$		\$	
		Aggregate		10	sq.yd.	\$	20.00	\$	200.00

No.	Pay Item	Approxima Quantity		Unit Price		Amount
12	TREE REMOVAL AND TRIMMING	:		Lump Sum	\$	2,632.00
13	EROSION CONTROL			Lump Sum	\$	658.00
14	TRAFFIC CONTROL:			Lump Sum	\$	5,264.00
15	SPECIAL RESTORATION:			Lump Sum	\$	3,290.00
	SUBTOTAL				\$	456,833.00
SERVICE	ELATERALS					
1	BUILDING SERVICE LINES Near side Far side	300 408	lin. ft. lin. ft.	\$ 49.00 \$ 49.00	\$ \$	14,700.00 19,992.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	20 8	each each	\$ 548.00 \$ 675.00	\$ \$	10,960.00 5,400.00
3	BUILDING SERVICE PLUG:	28	each	\$ 206.00	\$	5,768.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	578	sq.yd.	\$ 14.00	\$	8,092.00
5	RESTORATION OF STREETS: Bit. Concrete Street	156	sq.yd.	\$ 62.00	\$	9,672.00
6	TRENCH BACKFILL 0-8 feet deep	224	lin. ft.	\$ 61.00	\$	13,664.00
	SUBTOTAL				\$	88,248.00
	TOTAL ESTIMATE OF CONST	TRUCTION COS	Т		\$	545,100.00
		Contingencies Engineering Legal / Admin Easement Acqu	(20%) (20%) (6%) isition			\$109,000.00 \$109,000.00 \$45,800.00 \$24,700.00
	TOTAL OPINION OF PROBAE	BLE COST			\$	833,600.00
				Cost per lo	ot	\$29,770.00

Table 4.11-7

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
63rd and Lyman

Preliminary Design Layout

	Manhole Number	<u>Rim</u>	Invert	Length (ft)	Slope	Manhole <u>Depth</u>
63rd Stree	<u>et</u>					
	G-3-76A (existing)	762.0	754.60	EO.	0.40%	7.4
	UK-17	763.0	754.80	50		8.2
	UK-16	764.0	755.80	250	0.40%	8.2
	UK-15	769.0	759.40	300	1.20%	9.6
	UK-14	771.0	762.40	250	1.20%	8.6

Table 4.11-8

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
63rd and Lyman

Engineer's Opinion of Probable Construction Cost

Approximate Unit Quantity Price Amount No. Pay Item MAINLINE SEWER 1 SANITARY SEWER (OPEN CUT) 8-inch 0-8 feet deep 30 lin. ft. 74.00 \$ 2.220.00 8-12 feet deep 820 lin. ft. \$ 86.00 \$ 70,520.00 2 SANITARY MANHOLES 0-8 feet deep 0 48-inch each \$ 4,800.00 \$ 0.00 8-12 feet deep 4 each \$ 6,300.00 \$ 25,200.00 3 CONNECTION TO EXISTING MANHOLE 8-inch \$ 1 each 6,100.00 6,100.00 4 TRENCH BACKFILL 920.00 8-inch 0-8 feet deep 10 lin. ft. 92.00 \$ \$ 8-12 feet deep 215 lin. ft. 112.00 24,080.00 5 TREE TUNNELING 145 lin. ft. \$ 190.00 \$ 27,550.00 6 SEWER TELEVISING FOR FINAL INSPECTION 850 lin. ft. \$ 2.50 \$ 2,125.00 7 SEWER TESTING FOR FINAL INSPECTION 850 lin. ft. 2.50 \$ 2,125.00 8 CULVERT REMOVAL AND REPLACEMENT 12-inch 30 lin. ft. 80.00 \$ 2,400.00 9 RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod 1,656 sq.yd. \$ 14.00 \$ 23,184.00 10 RESTORATION OF STREETS: Bit. Concrete Street \$ 28 sq.yd. \$ 63.00 1,764.00 11 REMOVE AND REPLACE DRIVEWAYS **Bituminous** 106 sq.yd. 48.00 5,088.00 20.00 \$ Aggregate sq.yd. \$ 160.00 12 TREE REMOVAL AND TRIMMING: Lump Sum \$ 3,290.00

Table 4.11-8

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
63rd and Lyman

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxima Quantity		Unit Price		Amount
13	EROSION CONTROL			Lump Sum	\$	658.00
14	TRAFFIC CONTROL:			Lump Sum	\$	5,264.00
15	SPECIAL RESTORATION:			Lump Sum	\$	1,974.00
	SUBTOTAL				\$	204,622.00
SERVICE	ELATERALS					
1	BUILDING SERVICE LINES Near side Far side	70 0	lin. ft. lin. ft.	\$ 49.00 \$ 49.00	\$ \$	3,430.00 0.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	7 0	each each	\$ 548.00 \$ 675.00	\$ \$	3,836.00
3	BUILDING SERVICE PLUG:	7	each	\$ 206.00	\$	1,442.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	78	sq.yd.	\$ 14.00	\$	1,092.00
5	RESTORATION OF STREETS: Bit. Concrete Street	0	sq.yd.	\$ 62.00	\$	0.00
6	TRENCH BACKFILL 0-8 feet deep	10	lin. ft.	\$ 61.00	\$	610.00
	SUBTOTAL				\$	10,410.00
	TOTAL ESTIMATE OF CONS	STRUCTION COS	Т		\$	215,000.00
		Contingencies Engineering Legal / Admin Easement Acqu	(20%) (20%) (6%) isition			\$43,000.00 \$43,000.00 \$18,100.00 \$36,400.00
	TOTAL OPINION OF PROBA	ABLE COST			\$	355,500.00
				Cost per l	ot	\$50,790.00

Table 4.11-9

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Fairmount and 63rd

Preliminary Design Layout

	Manhole Number	Rim	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
Fairmount	<u>Avenue</u>					
	G-3-20 (existing)	763.0	752.70	110	0.40%	10.3
	UK-19	765.0	753.14	330	0.40%	11.9
	UK-21	764.0	754.46	000	0.4070	9.5
63rd Street	•					
00.0	=			400	0.40%	
	UK-18	763.0	754.74		0.4007	8.3
	UK-20	762.0	754.62	370	0.40%	7.4

Table 4.11-10

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Fairmount and 63rd

Engineer's Opinion of Probable Construction Cost

			Approxima	ite		Unit		
No.	Pay Item		Quantity			Price		Amount
MAINLIN	IE SEWER							_
1	SANITARY SEWE	R (OPEN CLIT)						
•	8-inch	0-8 feet deep	20	lin. ft.	\$	74.00	\$	1,480.00
		8-12 feet deep	1,110	lin. ft.	\$	86.00	\$	95,460.00
		'	,		·	,	<u> </u>	· · · · · · · · · · · · · · · · · · ·
2	SANITARY SEWE	R (AUGER):	80	lin. ft.	\$	272.00	\$	21,760.00
					,			_
3	SANITARY MANHO				_		_	
	48-inch	0-8 feet deep	1	each	\$	4,800.00	\$	4,800.00
		8-12 feet deep	3	each	\$	6,300.00	\$	18,900.00
4	CONNECTION TO	EXISTING MANHO	N E					
4	8-inch	EXISTING MANIFIC	1	each	\$	6,100.00	\$	6,100.00
	O IIIOII		'	Cacii	Ψ	0,100.00	Ψ	0,100.00
5	TRENCH BACKFIL	.L						
	8-inch	0-8 feet deep	0	lin. ft.	\$	92.00	\$	0.00
		8-12 feet deep	419	lin. ft.	\$ \$	112.00	\$ \$	46,928.00
		_						
6	TREE TUNNELING	3	110	lin. ft.	\$	190.00	\$	20,900.00
7	CEWED TELEVIOL	NG FOR FINAL INS	DECTION					
7	SEVVER TELEVISI	NG FOR FINAL INS	1,210	lin. ft.	\$	2.50	\$	3,025.00
			1,210	III I. IL.	Ψ	2.50	Ψ	3,023.00
8	SEWER TESTING	FOR FINAL INSPE	CTION					
			1,210	lin. ft.	\$	2.50	\$	3,025.00
9		AL AND REPLACE						
	12-inch		0	lin. ft.	\$	80.00	\$	0.00
10	RESTORATION O	E I AMANG						
10	AND PARKWAYS:							
	Topsoil and s		1.578	sq.yd.	\$	14.00	\$	22,092.00
			.,0.0	04.70.	<u>*</u>		*	
11	RESTORATION O	F STREETS:						
	Bit. Concrete S	Street	267	sq.yd.	\$	63.00	\$	16,821.00
12		PLACE DRIVEWAY	_		Φ	40.00	Ф	4.000.00
	Bituminous		91	sq.yd.	\$	48.00	\$	4,368.00
	Aggregate		5	sq.yd.	\$	20.00	\$	100.00
13	TREE REMOVAL A	AND TRIMMING:			Lum	p Sum	\$	2,632.00
						-		

Table 4.11-10

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Fairmount and 63rd

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxima Quantity		Unit Price		Amount
14	EROSION CONTROL			Lump Sum	\$	658.00
15	TRAFFIC CONTROL:			Lump Sum	\$	5,264.00
16	SPECIAL RESTORATION:			Lump Sum	\$	1,645.00
	SUBTOTAL				\$	275,958.00
SERVICE	LATERALS					
1	BUILDING SERVICE LINES Near side Far side	80 51	lin. ft. lin. ft.	\$ 49.00 \$ 49.00	<u>\$</u>	3,920.00 2,499.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	8 1	each each	\$ 548.00 \$ 675.00	\$ \$	4,384.00 675.00
3	BUILDING SERVICE PLUG:	9	each	\$ 206.00	\$	1,854.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	133	sq.yd.	\$ 14.00	\$	1,862.00
5	RESTORATION OF STREETS: Bit. Concrete Street	20	sq.yd.	\$ 62.00	\$	1,240.00
6	TRENCH BACKFILL 0-8 feet deep	22	lin. ft.	\$ 61.00	\$	1,342.00
	SUBTOTAL				\$	17,776.00
	TOTAL ESTIMATE OF CONS	STRUCTION COS	Т		\$	293,700.00
		Contingencies Engineering Legal / Admin Easement Acqu	(20%) (20%) (6%) isition			\$58,700.00 \$58,700.00 \$24,700.00 \$35,200.00
	TOTAL OPINION OF PROBA	BLE COST			\$	471,000.00
				Cost per lo	ot	\$52,330.00

Table 4.11-11

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Blodgett and 62nd

Preliminary Design Layout

	Manhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
62nd Street						
	G-3-54 (existing)	762.0	753.64	450	0.400/	8.4
	UK-22	761.0	754.24	150	0.40%	6.8

Table 4.11-12

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Blodgett and 62nd

Engineer's Opinion of Probable Construction Cost

			proxima	te	Unit		
No.	Pay Item	(Quantity		Price		Amount
MAINLIN	E SEWER						
1	SANITARY SEWE 8-inch	R (OPEN CUT) 0-8 feet deep 8-12 feet deep	85 65	lin. ft. lin. ft.	\$ 74.00 \$ 86.00	\$ \$	6,290.00 5,590.00
2	SANITARY MANH 48-inch	OLES 0-8 feet deep 8-12 feet deep	1 0	each each	\$ 4,800.00 \$ 6,300.00	\$ \$	4,800.00
3	CONNECTION TO 8-inch	EXISTING MANHOLE	1	each	\$ 6,100.00	\$	6,100.00
4	TRENCH BACKFII 8-inch	L 0-8 feet deep 8-12 feet deep	10 0	lin. ft. lin. ft.	\$ 92.00 \$ 112.00	\$ \$	920.00
5	TREE TUNNELING	G	0	lin. ft.	\$ 190.00	\$	0.00
6	SEWER TELEVIS	NG FOR FINAL INSPECT	TION 150	lin. ft.	\$ 2.50	\$	375.00
7	SEWER TESTING	FOR FINAL INSPECTION	N 150	lin. ft.	\$ 2.50	\$	375.00
8	CULVERT REMOV	/AL AND REPLACEMENT	0	lin. ft.	\$ 80.00	\$	0.00
9	RESTORATION O AND PARKWAYS: Topsoil and		217	sq.yd.	\$ 14.00	\$	3,038.00
10	RESTORATION O Bit. Concrete	_	0	sq.yd.	\$ 63.00	\$	0.00
11	REMOVE AND RE Bituminous Aggregate	PLACE DRIVEWAYS	0	sq.yd. sq.yd.	\$ 48.00 \$ 20.00	\$ \$	0.00
12	TREE REMOVAL	AND TRIMMING:			Lump Sum	\$	658.00

Table 4.11-12

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Blodgett and 62nd

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxima Quantity			Unit Price		Amount
13	EROSION CONTROL			Lump	Sum	\$	0.00
14	TRAFFIC CONTROL:			Lump	Sum	\$	658.00
15	SPECIAL RESTORATION:			Lump	Sum	\$	658.00
	SUBTOTAL					\$	29,462.00
SERVICE	ELATERALS						
1	BUILDING SERVICE LINES Near side Far side	15 0	lin. ft. lin. ft.	<u>\$</u>	49.00 49.00	\$ \$	735.00 0.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	1 0	each each	<u>\$</u>	548.00 675.00	\$ \$	548.00 0.00
3	BUILDING SERVICE PLUG:	1	each	\$	206.00	\$	206.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	11	sq.yd.	\$	14.00	\$	154.00
5	RESTORATION OF STREETS: Bit. Concrete Street	0	sq.yd.	\$	62.00	\$	0.00
6	TRENCH BACKFILL 0-8 feet deep	0	lin. ft.	\$	61.00	\$	0.00
	SUBTOTAL					\$	1,643.00
	TOTAL ESTIMATE OF CONS	STRUCTION COS	Т			\$	31,100.00
		Contingencies Engineering Legal / Admin	(20%) (20%) (6%)				\$6,200.00 \$6,200.00 \$2,600.00
	TOTAL OPINION OF PROBA	BLE COST				\$	46,100.00
					Cost per lo	ot	\$46,100.00

Table 4.11-13

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
63rd and Osage

Preliminary Design Layout

	Manhole Number	Rim	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
63rd Stre	<u>eet</u>					
	W-1-105-4 (existing)	758.1	749.50			8.6
	UK-26	759.0	750.78	320	0.40%	8.2
				300	0.40%	
	UK-25	761.0	751.98			9.0
				280	0.40%	
	UK-24	762.0	753.10			8.9

Table 4.11-14

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
63rd and Osage

Engineer's Opinion of Probable Construction Cost

12 TREE REMOVAL AND TRIMMING:

March 2020

Approximate Unit Quantity Price Amount No. Pay Item MAINLINE SEWER 1 SANITARY SEWER (OPEN CUT) 8-inch 0-8 feet deep 400 lin. ft. 74.00 \$ 29.600.00 8-12 feet deep 500 lin. ft. \$ 86.00 \$ 43,000.00 2 SANITARY MANHOLES 0-8 feet deep 48-inch 1 each 4,800.00 \$ 4,800.00 8-12 feet deep 2 \$ 6,300.00 \$ 12,600.00 each 3 CONNECTION TO EXISTING MANHOLE 8-inch \$ each 6,100.00 6,100.00 4 TRENCH BACKFILL 0-8 feet deep 76 lin. ft. 92.00 6,992.00 8-inch \$ 8-12 feet deep \$ 112.00 8,064.00 72 lin. ft. 5 TREE TUNNELING 40 lin. ft. \$ 190.00 \$ 7,600.00 6 SEWER TELEVISING FOR FINAL INSPECTION 900 lin. ft. 2.50 \$ 2,250.00 7 SEWER TESTING FOR FINAL INSPECTION 900 lin. ft. 2.50 \$ 2,250.00 8 CULVERT REMOVAL AND REPLACEMENT 12-inch 4.480.00 56 lin. ft. 80.00 \$ 9 RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod 1,300 sq.yd. \$ 14.00 \$ 18,200.00 10 RESTORATION OF STREETS: Bit. Concrete Street 63.00 \$ 43 sq.yd. \$ 2,709.00 11 REMOVE AND REPLACE DRIVEWAYS **Bituminous** 48.00 \$ 2,736.00 57 sq.yd. 20.00 \$ Aggregate 0 sq.yd. 0.00

Lump Sum

\$

1,316.00

Table 4.11-14

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers
63rd and Osage

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxima Quantity			Unit Price		Amount
13	EROSION CONTROL			Lump	Sum	\$	658.00
14	TRAFFIC CONTROL:			Lump	Sum	\$	4,606.00
	SUBTOTAL					\$	157,961.00
SERVICE	ELATERALS						
1	BUILDING SERVICE LINES Near side Far side	105 0	lin. ft. lin. ft.	\$ \$	49.00 49.00	<u>\$</u>	5,145.00 0.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	7 0	each each	\$ \$	548.00 675.00	\$ \$	3,836.00 0.00
3	BUILDING SERVICE PLUG:	7	each	\$	206.00	\$	1,442.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	78	sq.yd.	\$	14.00	\$	1,092.00
5	RESTORATION OF STREETS: Bit. Concrete Street	0	sq.yd.	\$	62.00	\$	0.00
6	TRENCH BACKFILL 0-8 feet deep SUBTOTAL	0	lin. ft.	\$	61.00	<u>\$</u> \$	0.00
	TOTAL ESTIMATE OF CONS	STRUCTION COS	Т			\$	169,500.00
		Contingencies Engineering Legal / Admin Easement Acqu	(20%) (20%) (6%)			<u>*</u>	\$33,900.00 \$33,900.00 \$14,200.00 \$37,600.00
	TOTAL OPINION OF PROBA	ABLE COST				\$	289,100.00

Cost per lot

\$41,300.00

Table 4.11-15

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Grand Avenue

Preliminary Design Layout

	Manhole Number	Rim	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
Grand Aver	<u>nue</u>					
	UK-25	761	751.98	490	0.409/	9.0
	UK-23	760.0	753.90	480	0.40%	6.1

Table 4.11-16 **Downers Grove Sanitary District** Possible Special Assessment for Sanitary Sewers Grand Avenue **Engineer's Opinion of Probable Construction Cost**

Approximate

No.	Approx No. Pay Item Quar		oroxima Quantity			Unit Price		Amount
INO.	ray item		Ruarilly			FIICE		Amount
MAINLIN	E SEWER							
1	SANITARY SEWER 8-inch	(OPEN CUT) 0-8 feet deep	480	lin. ft.	\$	74.00	\$	35,520.00
2	SANITARY MANHOL 48-inch	ES 0-8 feet deep	1	each	\$	4,800.00	\$	4,800.00
3	CONNECTION TO E 8-inch	XISTING MANHOLE	1	each	\$	6,100.00	\$	6,100.00
4	TRENCH BACKFILL 8-inch	0-8 feet deep 8-12 feet deep	138 0	lin. ft. lin. ft.	<u>\$</u>	92.00 112.00	<u>\$</u>	12,696.00
5	TREE TUNNELING		20	lin. ft.	\$	190.00	\$	3,800.00
6	SEWER TELEVISING	G FOR FINAL INSPECT	ION 480	lin. ft.	\$	2.50	\$	1,200.00
7	SEWER TESTING F	OR FINAL INSPECTION	↓ 480	lin. ft.	\$	2.50	\$	1,200.00
8	CULVERT REMOVA 12-inch	L AND REPLACEMENT	40	lin. ft.	\$	80.00	\$	3,200.00
9	RESTORATION OF I AND PARKWAYS: Topsoil and soo		713	sq.yd.	\$	14.00	\$	9,982.00
10	RESTORATION OF Sit. Concrete Str		0	sq.yd.	\$	63.00	\$	0.00
11	REMOVE AND REPL Bituminous Aggregate	ACE DRIVEWAYS	57 0	sq.yd. sq.yd.	\$	48.00 20.00	\$	2,736.00 0.00

Table 4.11-16

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Grand Avenue

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxima Quantity		Unit Price		Amount
12	TREE REMOVAL AND TRIMMING	:		Lump Sum	\$	658.00
13	EROSION CONTROL			Lump Sum	\$	658.00
14	TRAFFIC CONTROL:			Lump Sum	\$	2,303.00
	SUBTOTAL				\$	84,853.00
SERVICE	ELATERALS					
1	BUILDING SERVICE LINES Near side Far side	60 204	lin. ft. lin. ft.	\$ 49.00 \$ 49.00	\$ \$	2,940.00 9,996.00
2	BUILDING SERVICE BRANCH FITTINGS Near Side Far side	4 4	each each	\$ 548.00 \$ 675.00	\$ \$	2,192.00 2,700.00
3	BUILDING SERVICE PLUG:	8	each	\$ 206.00	\$	1,648.00
4	RESTORATION OF LAWNS AND PARKWAYS: Topsoil and sod	222	sq.yd.	\$ 14.00	\$	3,108.00
5	RESTORATION OF STREETS: Bit. Concrete Street PCC Sidewalk	78 200	sq.yd. sq.ft.	\$ 62.00 \$ 13.00	\$ \$	4,836.00 2,600.00
6	TRENCH BACKFILL 0-8 feet deep	100	lin. ft.	\$ 61.00	\$	6,100.00
	SUBTOTAL				\$	36,120.00
	TOTAL ESTIMATE OF CONS	TRUCTION COS	Т		\$	121,000.00
		Contingencies Engineering Legal / Admin	(20%) (20%) (6%)			\$24,200.00 \$24,200.00 \$10,200.00
	TOTAL OPINION OF PROBA	BLE COST			\$	179,600.00
				Cost per le	ot	\$22,450.00

Table 4.11-17

Downers Grove Sanitary District

Possible Special Assessments for Sanitary Sewers
63rd Corridor Sub-Area

Cost Summary

Sub-Basin:	Near Services	Far Services	Total Project Cost		Cost per lot
Carpenter and 63rd	8	0	\$	204,800.00	\$ 25,600.00
Norfolk and Carpenter	4	4	\$	159,500.00	\$ 19,940.00
Meadowlawn & Washington	20	8	\$	833,600.00	\$ 29,770.00
63rd and Lyman	7	0	\$	355,500.00	\$ 50,790.00
Fairmount and 63rd	8	1	\$	471,000.00	\$ 52,330.00
Blodgett and 62nd	1	0	\$	46,100.00	\$ 46,100.00
63rd and Osage	7	0	\$	289,100.00	\$ 41,300.00
Grand Avenue	4	4	\$	179,600.00	\$ 22,450.00
TOTALS	59	17	\$	2,539,200.00	\$ 33,410.00

76

4.12 Gilbert and Lee

Gilbert and Lee is a small service area located within the District's FPA boundary. Exhibit 4.12 shows the approximate limits of this service area which is located south of Gilbert Street between Cornell Avenue and Lee Avenue. The proposed service area currently includes three lots that are developed as single-family residences. One property is on septic while the other two are currently connected to the sewer on Cornell Avenue with a private sewer. The purpose of this analysis is to establish the most cost-effective sanitary sewer plan for serving the three properties along Gilbert Street with a public sewer.

Several factors were considered when determining the most cost-effective sewer layout. These factors include topography, tree protection, water main and existing utility location. The Village of Downers Grove owns and operates water mains within the subject area limits. The only utilities of that could effect sewer construction are gas mains, overhead electric, and communication.

The final component of this analysis was to evaluate the downstream capacity of the existing sewers. Our analysis determined that the existing trunk sewer capacity on Cornell Avenue will not be affected by the marginal additional flow produced by the three lots on Gilbert Street.

A map of the proposed sewer plan is included in Exhibit 4.12.

The topography falls westerly from Lee Avenue to Cornell Avenue, and thus, the direction of flow will follow the same route. We identified one feasible connection point, the existing manhole north of the intersection of Cornell and Gilbert. This manhole is on the existing 42-inch trunk sewer that flows south on Cornell. The planned sewer will connect to the sewer two feet above the crown of the existing trunk sewer.

We recommend the sewer be installed in the north right-of-way to avoid the existing water main, gas mains, and landscaping located in the south right-of-way. The north parkway does have overhead power line, but adequate room is available for sewer installation. Table 4.12-1 is the proposed layout of the sewer size, length, and slope and manhole invert and depth. Table 4.12-2 includes a breakdown of the unit quantities and unit prices used to prepare the opinion of probable cost. The total opinion of project cost is \$145,300, including contingency, engineering, and legal/administrative costs.

DOWNERS GROVE SANITARY DISTRICT UNSEWERED AREA PLAN

EXHIBIT 4.12

GILBERT AND LEE

POSSIBLE SEWER ALIGNMENT

MARCH 2020

LEGEND

PROPOSED MANHOLES

PROPOSED SEWERS

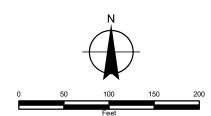
EXISTING MANHOLES

EXISTING SEWERS

PARCEL BOUNDARIES

CURRENTLY SERVED
BY A PRIVATE SEWER

GILBERT AND LEE





I:\Crystal Lake\DGSD1\180305-2018 UAP\20-GIS\MapDocuments\
4-12 gilbert.mxd 563dks - 3/24/2020
Copyright 2019, By Baxter & Woodman, Inc.
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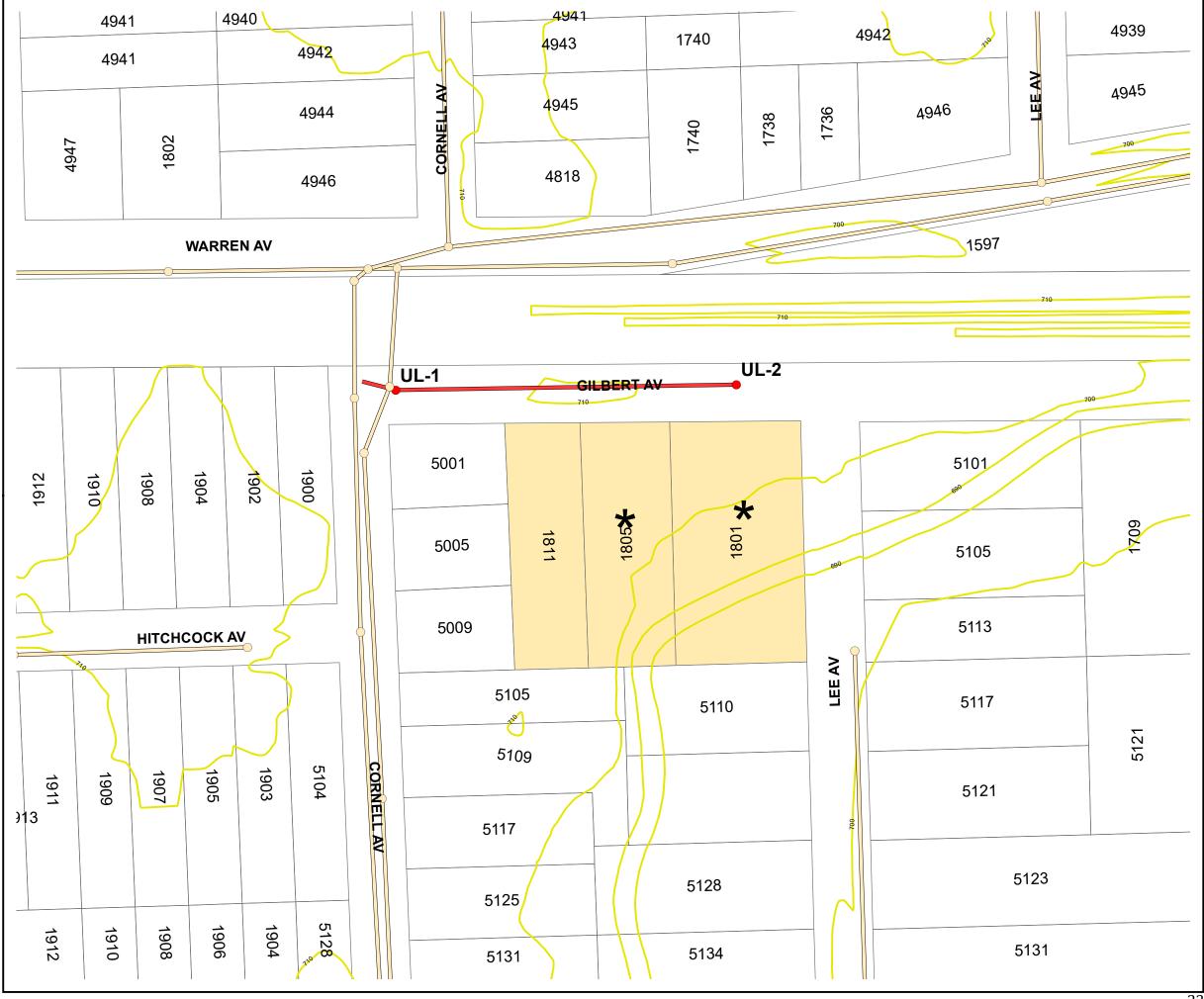


Table 4.12-1

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Gilbert & Lee

Preliminary Design Layout

Manhole Number	<u>Rim</u>	<u>Invert</u>	Length (ft)	Slope	Manhole <u>Depth</u>
Gilbert Street					
2-A-14-B-S (existing)	706.0	694.42	380	0.80%	11.6
UL-2	707.0	697.46	300	0.0070	9.5

Table 4.12-2

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Gilbert & Lee

Engineer's Opinion of Probable Construction Cost

Bit. Concrete Street

March 2020

Approximate Unit Quantity Price Amount No. Pay Item MAINLINE SEWER 1 SANITARY SEWER (OPEN CUT) 8-inch 8-12 feet deep 380 lin. ft. \$ 86.00 \$ 32,680.00 2 SANITARY MANHOLES 8-12 feet deep \$ 6,300.00 \$ 6,300.00 48-inch 1 each 3 CONNECTION TO EXISTING MANHOLE 8-inch 6,100.00 1 each 6,100.00 \$ 4 TRENCH BACKFILL 8-inch 8-12 feet deep 25 lin. ft. \$ 112.00 \$ 2,800.00 5 TREE TUNNELING \$ \$ 30 lin. ft. 190.00 5,700.00 6 SEWER TELEVISING FOR FINAL INSPECTION 380 lin. ft. \$ \$ 950.00 2.50 7 SEWER TESTING FOR FINAL INSPECTION 380 lin. ft. \$ 2.50 \$ 950.00 8 CULVERT REMOVAL AND REPLACEMENT 12-inch lin. ft. \$ 80.00 \$ 0.00 9 RESTORATION OF LAWNS AND PARKWAYS: 1,056 sq.yd. Topsoil and sod \$ 14.00 \$ 14,784.00 10 RESTORATION OF STREETS:

9 sq.yd.

\$

63.00

\$

567.00

Table 4.12-2

Downers Grove Sanitary District

Possible Special Assessment for Sanitary Sewers

Gilbert & Lee

Engineer's Opinion of Probable Construction Cost

No.	Pay Item	Approxima Quantity	te	Unit Price		Amount		
		2,300			_			
11	EROSION CONTROL			Lump Sum	<u>\$</u>	987.00		
12	TRAFFIC CONTROL:		Lump		\$	5,922.00		
	SUBTOTAL				\$	78,595.00		
SERVIC	E LATERALS							
1	BUILDING SERVICE LINES							
	Near side	90	lin. ft.	\$ 49.00 \$ 49.00	<u>\$</u> \$	4,410.00		
	Far side	0	lin. ft.	\$ 49.00	<u>\$</u>	0.00		
2	BUILDING SERVICE							
	BRANCH FITTINGS	2		Ф 540.00	Φ	4 044 00		
	Near Side Far side	3	each	\$ 548.00 \$ 675.00	<u>\$</u> \$	1,644.00		
	Fai side	U	each	\$ 675.00	<u> </u>	0.00		
3	BUILDING SERVICE PLUG:	3	each	\$ 206.00	\$	618.00		
4	RESTORATION OF LAWNS							
	AND PARKWAYS:							
	Topsoil and sod	17	sq.yd.	\$ 14.00	\$	238.00		
5	RESTORATION OF STREETS:							
	Bit. Concrete Street		sq.yd.	\$ 62.00 \$ 13.00	<u>\$</u> \$	3,100.00		
	PCC Sidewalk	150	sq.ft.	\$ 13.00	\$	1,950.00		
6	TRENCH BACKFILL							
	0-8 feet deep	120	lin. ft.	\$ 61.00	\$	7,320.00		
	SUBTOTAL				\$	19,280.00		
	TOTAL ESTIMATE OF CONS	STRUCTION COST	-		\$	97,900.00		
		Contingencies	(20%)			\$19,600.00		
		Engineering	(20%)			\$19,600.00		
		Legal / Admin	(6%)			\$8,200.00		
	TOTAL OPINION OF PROBA	ABLE COST			\$	145,300.00		
				Cost per I	ot	\$48,430.00		

Table 4.13-1

Downers Grove Sanitary District

Unsewered Area Plan

Summary of Estimated Costs for Unsewered Areas

·	<u>Ta</u>	ables	<u>Page</u>	Construction	Contingency	Engineering	<u>Legal/Admin</u>	<u>Easements</u>	<u>Total</u>	Number of Services	Cost pe Service
4.1 73rd and Webster			11								
73rd and Webster	4.1-1	4.1-2	13-15	\$ 582,500 \$	116,500 \$	116,500 \$	48,900 \$	39,800 \$	904,200	25	\$ 36,17
4.2 Downers Grove Park			16								
Katrine-Maple (North)	4.2-1	4.2-2	20-22	\$ 554,200 \$	110,800 \$	110,800 \$	46,500 \$	34,400 \$	856,700	25	\$ 34,27
Inverness-Lomond-Elinor-Maple (North)	4.2-3	4.2-4	23-26	\$ 1,758,800 \$	351,800 \$	351,800 \$	147,700 \$	112,100 \$	2,722,200	72	\$ 37,81
Inverness-Belmont (North)	4.2-5	4.2-6	27-29	\$ 119,900 \$	24,000 \$	24,000 \$	10,100 \$	- \$	178,000	6	\$ 29,67
Katrine-College (South)	4.2-7	4.2-8	30-32	\$ 412,200 \$	82,400 \$	82,400 \$	34,600 \$	- \$	611,600	27	\$ 22,65
Lomond-College (South)	4.2-9	4.2-10	33-35	\$ 598,200 \$	119,600 \$	119,600 \$	50,200 \$	- \$	887,600	29	\$ 30,61
Elinor-College (South)	4.2-11	4.2-12	36-38	\$ 253,600 \$	50,700 \$	50,700 \$	21,300 \$	- \$	376,300	9	\$ 41,81
Janes-College (South)	4.2-13	4.2-14	39-41	\$ 269,900 \$	54,000 \$	54,000 \$	22,700 \$	- \$	400,600	13	\$ 30,82
Chase-Hobson-Belmont (South)	4.2-15	4.2-16	42-44	\$ 432,400 \$	86,500 \$	86,500 \$	36,300 \$	- \$	641,700	15	\$ 42,78
4.3 Downers Grove Gardens			46								
Janes-Leonard-Chase-Puffer (North)	4.3-1	4.3-2	52-54	\$ 863,100 \$	172,600 \$	172,600 \$	72,500 \$	- \$	1,280,800	68	\$ 18,84
Janes-Leonard-Chase-Puffer (South)	4.3-3	4.3-4	55-57	\$ 1,624,800 \$	325,000 \$	325,000 \$	136,500 \$	- \$	2,411,300	129	\$ 18,69
Belmont Road (Southwest)	4.3-5	4.3-6	58-60	\$ 374,200 \$	74,800 \$	74,800 \$	31,400 \$	64,700 \$	619,900	25	\$ 24,80
Belmont Road (East)	4.3-7	4.3-8	61-63	\$ 718,400 \$	143,700 \$	143,700 \$	60,300 \$	149,000 \$	1,215,100	52	\$ 23,37
Pershing Avneue (South)	4.3-9	4.3-10	64-66	\$ 784,200 \$	156,800 \$	156,800 \$	65,900 \$	- \$	1,163,700	64	\$ 18,18
Woodward and 63rd Street	4.3-11	4.3-12	67-69	\$ 203,700 \$	40,700 \$	40,700 \$	17,100 \$	18,100 \$	320,300	18	\$ 17,79
Lee and Boundry (South)	4.3-13	4.3-14	70-72	\$ 492,800 \$	98,600 \$	98,600 \$	41,400 \$	- \$	731,400	39	\$ 18,75
Springside Avenue (South)	4.3-15	4.3-16	73-75	\$ 207,800 \$	41,600 \$	41,600 \$	17,500 \$	- \$	308,500	14	\$ 22,04
Springside-Jefferson-Downers (North)	4.3-17	4.3-18	76-78	\$ 973,700 \$	194,700 \$	194,700 \$	81,800 \$	- \$	1,444,900	52	\$ 27,79
Pershing-Woodward-Maple (North)	4.3-19	4.3-20	79-81	\$ 1,841,100 \$	368,200 \$	368,200 \$	154,700 \$	42,800 \$	2,775,000	104	\$ 26,68
Sherman Avenue (North)	4.3-21	4.3-22	82-84	\$ 831,700 \$	166,300 \$	166,300 \$	69,900 \$	- \$	1,234,200	54	\$ 22,86
Lee Avenue (North)	4.3-23	4.3-24	85-87	\$ 955,400 \$	191,100 \$	191,100 \$	80,300 \$	14,600 \$	1,432,500	54	\$ 26,53
4.4 Fairhaven Court			89								
Fairhaven Court	4.4-1	4.4-2	91	\$ 228,100 \$	45,600 \$	45,600 \$	19,200 \$	43,700 \$	382,200	10	\$ 38,22
4.5 Burlington Highlands			94								
Morton and Downers	4.5-1	4.5-2	99-101	\$ 906,900 \$	181,400 \$	181,400 \$	76,200 \$	16,600 \$	1,362,500	39	\$ 34,94
40th and Seely (North)	4.5-3	4.5-4	102-104	\$ 399,300 \$	79,900 \$	79,900 \$	33,500 \$	- \$	592,600	21	\$ 28,22
40th and Northcott	4.5-5	4.5-6	105-107	\$ 279,800 \$	56,000 \$	56,000 \$	23,500 \$	- \$	415,300	14	\$ 29,66
Virginia-Seely-Janet-Downers	4.5-7	4.5-8	108-110	\$ 756,100 \$	151,200 \$	151,200 \$	63,500 \$	- \$	1,122,000	43	\$ 26,09
Belle Aire and Venard	4.5-9	4.5-10	111-113	595,300 \$	119,100 \$	119,100 \$	50,000 \$	24,700 \$	908,200	21	\$ 43,25
Vernard Road (North)	4.5-11	4.5-12	114-116	246,500 \$	49,300 \$	49,300 \$	20,700 \$	- \$	365,800	10	\$ 36,58
Vernard Road (South) (completed)	4.5-13	4.5-14	117-119	- \$	- \$	- \$	- \$	- \$	-	0	\$ -
Virginia Avenue (West)	4.5-15	4.5-16	120-122	99,700 \$	19,900 \$	19,900 \$	8,400 \$	- \$	147,900	6	\$ 24,65
Lacey-Carol-Northcott	4.5-17	4.5-18	123-125	45,100 \$	9,000 \$	9,000 \$	3,800 \$	- \$	66,900	1	\$ 66,90
Lacey and Janet	4.5-19	4.5-20	126-128	202,200 \$	40,400 \$	40,400 \$	17,000 \$	- \$	300,000	14	\$ 21,43
Ogden-Lacey-Grant-Lee (South)	4.5-21	4.5-22	129-131	1,567,400 \$	313,500 \$	313,500 \$	131,700 \$	133,600 \$	2,459,700	18	\$ 136,650

Table 4.13-1

Downers Grove Sanitary District

Unsewered Area Plan

Summary of Estimated Costs for Unsewered Areas

•	<u>Ta</u>	<u>ables</u>	<u>Page</u>	Construction	Contingency	Engineering	<u>Legal/Admin</u>	Easements	<u>Total</u>	Number of Services	Cost per <u>Service</u>
4.6 Golf Addition			133								
Drendel and Ogden (completed)	4.6-1	4.6-2	137-139 \$	- \$	- \$	- \$	- \$	- \$	-	0	\$ -
Cross and Ogden (South) (completed)	4.6-3	4.6-4	140-142 \$	- \$	- \$	- \$	- \$	- \$	-	0	\$ -
Cross and Ogden (North)	4.6-5	4.6-6	143-145 \$	234,600 \$	46,900 \$	46,900 \$	19,700 \$	30,400 \$	378,500	2	N/A
Drendel and Granville (South)	4.6-7	4.6-8	146-148 \$	541,500 \$	108,300 \$	108,300 \$	45,500 \$	18,600 \$	822,200	28	\$ 29,360
Burlington and Walnut (South)	4.6-9	4.6-10	149-151 \$	136,200 \$	27,200 \$	27,200 \$	11,400 \$	- \$	202,000	2	N/A
Puffer North of Prairie	4.6-11	4.6-12	152-154 \$	415,700 \$	83,100 \$	83,100 \$	34,900 \$	10,400 \$	627,200	16	\$ 39,200
4.7 Florence Avenue			156								
Florence Avenue	4.7-1	4.7-2	158-160 \$	162,700 \$	32,500 \$	32,500 \$	13,700 \$	- \$	241,400	11	\$ 21,950
4.8 Meyers Road and 31st Street			161								
Meyers Road (North)	4.8-1	4.8-2	164-166 \$	147,200 \$	29,400 \$	29,400 \$	- \$	34,900 \$	240,900	3	 N/A
Meyers Road (South)	4.8-3	4.8-4	167-170 \$	181,200 \$	36,200 \$	36,200 \$	- \$	35,200 \$	288,800	4	N/A
4.9 57th and Grant			171								
57th and Grant (completed)	4.9-1	4.9-2	173-175 \$	- \$	- \$	- \$	- \$	- \$	-	0	\$ -
4.10 60th and Cumnor			176								
59th (West)	4.10-1	4.10-2	180-182 \$	240,700 \$	48,100 \$	48,100 \$	20,200 \$	- \$	357,100	15	\$ 23,810
59th (East)	4.10-3	4.10-4	183-185 \$	208,800 \$	41,800 \$	41,800 \$	17,500 \$	- \$	309,900	4	\$ 77,480
60th (West)	4.10-5	4.10-6	186-188 \$	146,600 \$	29,300 \$	29,300 \$	12,300 \$	- \$	217,500	11	\$ 19,770
60th and Cumnor	4.10-7	4.10-8	189-191 \$	99,300 \$	19,900 \$	19,900 \$	8,300 \$	- \$	147,400	7	\$ 21,060
60th (East)	4.10-9	4.10-10	192-194 \$	53,600 \$	10,700 \$	10,700 \$	4,500 \$	- \$	79,500	3	\$ 26,500
Cumnor (South)	4.10-11	4.10-12	195-197 \$	74,500 \$	14,900 \$	14,900 \$	6,300 \$	- \$	110,600	2	\$ 55,300
61st and Cumnor	4.10-13	4.10-14	198-200 \$	257,600 \$	51,500 \$	51,500 \$	21,600 \$	- \$	382,200	12	\$ 31,850
61st (East)	4.10-15	4.10-16	201-203 \$	57,300 \$	11,500 \$	11,500 \$	4,800 \$	- \$	85,100	3	\$ 28,370
4.11 63rd Corridor			205								
Carpenter and 63rd	4.11-1	4.11-2	209-211 \$	138,000 \$	27,600 \$	27,600 \$	11,600 \$	- \$	204,800	8	\$ 25,600
Norfolk and Carpenter	4.11-3	4.11-4	212-214 \$	107,500 \$	21,500 \$	21,500 \$	9,000 \$	- \$	159,500	8	\$ 19,940
Meadowlawnand Washington	4.11-5	4.11-6	215-217 \$	545,100 \$	109,000 \$	109,000 \$	45,800 \$	24,700 \$	833,600	28	\$ 29,770
63rd and Lyman	4.11-7	4.11-8	218-220 \$	215,000 \$	43,000 \$	43,000 \$	18,100 \$	36,400 \$	355,500	7	\$ 50,790
Fairmount and 63rd	4.11-9	4.11-10	221-223 \$	293,700 \$	58,700 \$	58,700 \$	24,700 \$	35,200 \$	471,000	9	\$ 52,330
Blodgett and 62nd	4.11-11	4.11-12	224-226 \$	31,100 \$	6,200 \$	6,200 \$	2,600 \$	- \$	46,100	1	\$ 46,100
63rd and Osage	4.11-13		227-229 \$	169,500 \$	33,900 \$	33,900 \$	14,200 \$	37,600 \$	289,100	7	\$ 41,300
Grand Avenue	4.11-15	4.11-16	230-232 \$	121,000 \$	24,200 \$	24,200 \$	10,200 \$	- \$	179,600	8	\$ 22,450
4.12 Gilbert and Lee			234								
Gilbert and Lee	4.12-1	4.12-2	236-238 \$	97,900 \$	19,600 \$	19,600 \$	8,200 \$	- \$	145,300	3	\$ 48,430
Totals			\$	24,855,300 \$	4,970,700 \$	4,970,700 \$	2,060,200 \$	957,500 \$	37,814,400	1,293	\$ 29,245

DOWNERS GROVE SANITARY DISTRICT MEMO

To: Board of Trustees

From: Ted Cherwak, Sewer Construction Supervisor

Date: April 15, 2020

Subject: Grant & Lee Unsewered Area

Last July, a group of property owners attended a board meeting to inquire about getting sanitary sewer main installed in an area of Grant Street between Lee and Cornell. General Manager Menninga indicated that we could explore the feasibility of a special assessment for the area. The attendee's included developers and landowners of vacant properties who are hoping to get sanitary sewer mains to the area for the benefit of the development of their parcels.

In the months following, staff refined the extent of the area to be served. As part of this refinement process the District met with Staff from the Village of Downers Grove Planning Department. This meeting confirmed that seven parcels that the Village owns on Lee are being held as part of storm water management in the area, and will never be developed. Additionally, we learned that Star Motors, at the southwest corner of Lee and Ogden Avenue has plans to consolidate their four vacant parcels into their existing parcel, which already has sewer service.

At this point staff mailed a poll form to assess interest in getting sewer to this area. From the poll results we got positive responses from the attendees and three resident property owners in the area. At this point we had Baxter & Woodman do a site visit and began calculating a construction cost estimate for the area.

Please find attached for your review Baxter & Woodman's memorandum for the subject area. The cost estimate with contingencies is \$2,250,000.00. There are 15-lots in this area, which would make the cost \$150,000.00 per lot. The cost in this basin are impacted by the small number of lots relative to the length of sewers needed to service the area. There are additional cost for easements, working around wetlands and sewer depths of 20-feet or more in some areas.

In conclusion, Staff at this juncture would not recommend pursuing this matter any further as a special assessment considering the cost involved and the lack of support from the actual residents in the area. After the April Board meeting staff will send out a response mailing to the property owners in the area.

CC: KJR, RTJ, MJS, ARU, WCC & MGP



TECHNICAL MEMORANDUM

DATE: April 13, 2020

TO: Ted Cherwak, Downers Grove Sanitary District FROM: Shane Firsching, Jack Worsham, Reggie Jansen

SUBJECT: Grant & Lee Special Assessment – Cost Estimate

General

Several properties on Grant Street and Lee Avenue are located in Downers Grove Sanitary District's Facility Planning Area (FPA) that are currently unsewered. The proposed service area includes 15 lots shown on Exhibit 1, eight have existing single-family residences with septic systems and seven are vacant parcels. The purpose of this evaluation is to establish the most cost-effective sanitary sewer plan for serving these properties on Grant Street and Lee Avenue so that all properties may be served by gravity sewers without the need for private grinder pumps or public pumping stations. An opinion of probable cost to install public sewers and services to the property lines was prepared for the Grant & Lee Special Assessment Area based on 2020 construction costs.

Utilities

Several utilities on Grant Street, Lee Avenue, and proposed easement area between Ogden Avenue and Grant Street were identified during a site visit. Identified utilities included aerial electric and telecommunications through the proposed easement areas south of the Packey Webb Ford dealership and storm sewers south of the dealership and along Lee Avenue. A JULIE Utility Design Locate would need to be performed to obtain information on any other existing utilities.

Easements and Right-of-Way

Permanent and temporary easements on private property are necessary to install the proposed sewers. Exhibit 2 shows the location and sizes of proposed easements.

Permitting Agencies

Permits will need to be obtained from Illinois Environmental Protection Agency (IEPA), Illinois Department of Transportation (IDOT), DuPage County Stormwater, and the Village of Downers Grove for the construction of the proposed sewers.



Opinion of Probable Project Cost

Exhibit 3 includes a map of the proposed sanitary sewer extensions. The conceptual plan includes extending an 8" sewer approximately 1,200 feet along the east and south boundaries of the Packey Webb dealership. Approximately 900 feet of 8" sewers in easements and approximately 220 feet of 8" sewers on Grant Street would be extended from the dealership property to the southern properties on Grant Street. To serve the property at Lee Avenue and Glen Avenue, approximately 430 feet of 8" sewer would be installed in easements on Ogden Avenue and approximately 600 feet of 8" sewer would be installed on Lee Avenue. The total opinion of probable project cost is \$2,250,000, including contingency, design and construction engineering, and legal/administration costs. The average total cost per lot is \$150,000. A detailed breakdown of the cost is shown in Appendix A.

Downers Grove Sanitary District Grant & Lee Unsewered Area Subset

Exhibit 1 - Properties to be Served



Legend



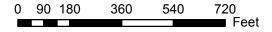
2019 Parcels

Sanitary Manholes

Sanitary Sewer







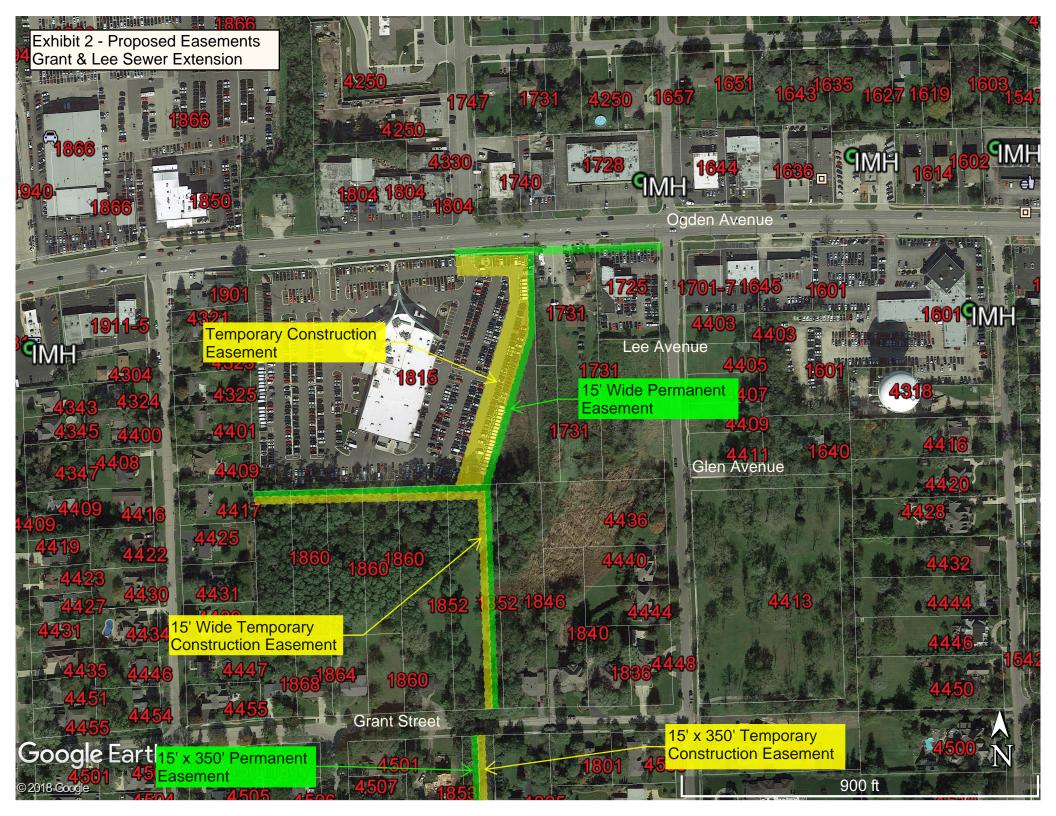
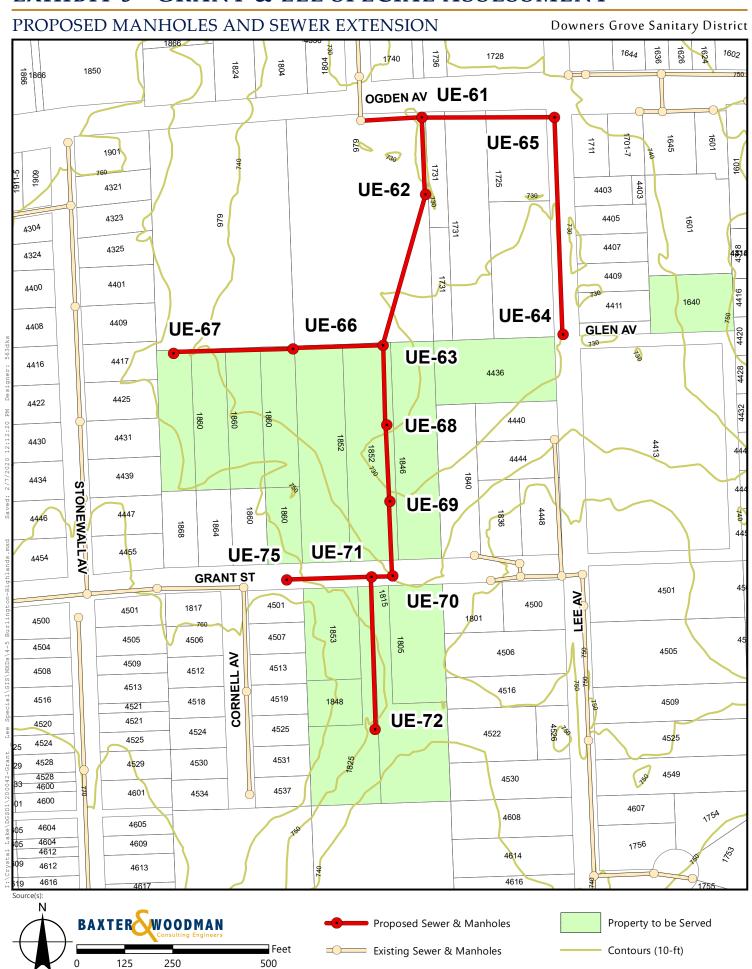


EXHIBIT 3 - GRANT & LEE SPECIAL ASSESSMENT



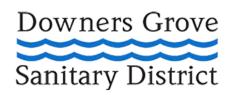
Appendix A Downers Grove Sanitary District Proposed Special Assessment Ogden-Lacey-Grant-Lee (South) Sub-Basin Opinion of Probable Construction Cost

No. Pay Item				Approx	kimate	Unit	
SANITARY SEWER (OPEN CUT) 8-inch	No.	Pay Item		Qua	ntity	Price	Amount
8-inch	MA	INLINE SEWER					
8-inch	1	SANITARY SEWER (OI	PEN CUT)				
B-12 feet deep	•	•	•	0	lin. ft.	\$ 73.00	\$ 0
12-16 feet deep			•	2,184			
20-24 feet deep			•				\$
20-24 feet deep			•		lin. ft.	\$	\$
A8-inch			20-24 feet deep	189	lin. ft.	148.00	\$ 27,972
8-12 feet deep	2	SANITARY MANHOLES	3				
8-12 feet deep		48-inch	0-8 feet deep	0	each	\$ 4,700.00	\$ 0
20-24 feet deep			8-12 feet deep	8	each	\$	\$ 49,600
20-24 feet deep			12-16 feet deep	5	each	\$ 7,500.00	\$ 37,500
20-24 feet deep			16-20 feet deep	0	each	\$ 10,000.00	\$ 0
8-inch 1 each \$ 6,000.00 \$ 6,000.00 TRENCH BACKFILL 8-inch 0-8 feet deep 0 1in. ft. \$ 91.00 \$ 240,240 12-16 feet deep 1,034 1in. ft. \$ 134.00 \$ 138,556 12-16 feet deep 318 1in. ft. \$ 175.00 \$ 55,650 20-24 feet deep 189 1in. ft. \$ 225.00 \$ 42,525 TREE TUNNELING 310 1in. ft. \$ 187.00 \$ 57,970 SEWER TELEVISING FOR FINAL INSPECTION 3,725 1in. ft. \$ 2.45 \$ 9,126 SEWER TESTING FOR FINAL INSPECTION 3,725 1in. ft. \$ 2.45 \$ 9,126 CULVERT REMOVAL AND REPLACEMENT 105 1in. ft. \$ 79.00 \$ 8,295 RESTORATION OF LAWNS AND PARKWAYS Topsoil and sod 8,516 sq.yd. \$ 13.00 \$ 110,708 RESTORATION OF WETLANDS AND BUFFERS Wetland Wetland Buffer 4,667 sq.yd. \$ 30.00 \$ 21,250 \$ 70,000 11 RESTORATION OF STREETS Bit. Concrete Street 787 sq.yd. \$ 62.00 \$ 48,794 PCC Sidewalk 1,500 sq. ft. \$ 13.00 \$ 19,500 12 REMOVE AND REPLACE DRIVEWAYS Bituminous 338 sq.yd. \$ 47.00 \$ 15,886 \$ 47.00 \$ 15,886 \$ 47.00 \$ 15,886 \$ 47.00 \$ 15,886 \$ 47.00 \$ 15,886 \$ 47.00 \$ 15,886 \$ 47.00 \$ 15,886 \$ 47.00 \$ 15,886 \$ 47.00 \$ 15,886 \$ 47.00 \$ 15,886 \$ 47.00 \$ 47.			20-24 feet deep	1	each	\$ 12,500.00	\$ 12,500
4 TRENCH BACKFILL 8-inch	3	CONNECTION TO EXIS	STING MANHOLE				
8-inch		8-inch		1	each	\$ 6,000.00	\$ 6,000
8-inch	4	TRENCH BACKFILL					
8-12 feet deep 2,184 lin. ft. \$ 110.00 \$ 240,240 12-16 feet deep 1,034 lin. ft. \$ 134.00 \$ 138,556 16-20 feet deep 189 lin. ft. \$ 175.00 \$ 55,650 20-24 feet deep 189 lin. ft. \$ 225.00 \$ 42,525 5 TREE TUNNELING 310 lin. ft. \$ 187.00 \$ 57,970 6 SEWER TELEVISING FOR FINAL INSPECTION 3,725 lin. ft. \$ 2.45 \$ 9,126 \$ 9,126 \$ \$ \$ \$ \$ \$ \$ \$ \$			0-8 feet deep	0	lin. ft.	\$ 91.00	\$ 0
12-16 feet deep 1,034 lin. ft. \$ 134.00 \$ 138,556 \$ 16-20 feet deep 20-24 feet dee				2,184			\$ 240,240
16-20 feet deep 20-24 feet deep 20-25 for first 20-25 for firs			12-16 feet deep	1,034	lin. ft.	\$ 134.00	\$
20-24 feet deep 189 lin. ft. \$ 225.00 \$ 42,525 \$ 5 \$			16-20 feet deep	318	lin. ft.	175.00	\$
6 SEWER TELEVISING FOR FINAL INSPECTION 3,725 lin. ft. \$ 2.45 \$ 9,126 7 SEWER TESTING FOR FINAL INSPECTION 3,725 lin. ft. \$ 2.45 \$ 9,126 8 CULVERT REMOVAL AND REPLACEMENT 105 lin. ft. \$ 79.00 \$ 8,295 9 RESTORATION OF LAWNS AND PARKWAYS Topsoil and sod 8,516 sq.yd. \$ 13.00 \$ 110,708 10 RESTORATION OF WETLANDS AND BUFFERS Wetland 708 sq.yd. \$ 30.00 \$ 21,250 \$ 70,000 11 RESTORATION OF STREETS Bit. Concrete Street 787 sq.yd. \$ 62.00 \$ 48,794 PCC Sidewalk 1,500 sq. ft. \$ 13.00 \$ 19,500 12 REMOVE AND REPLACE DRIVEWAYS Bituminous 338 sq.yd. \$ 47.00 \$ 15,886			20-24 feet deep	189	lin. ft.	\$ 225.00	\$ 42,525
7 SEWER TESTING FOR FINAL INSPECTION 3,725 lin. ft. \$ 2.45 \$ 9,126 8 CULVERT REMOVAL AND REPLACEMENT 12-inch 105 lin. ft. \$ 79.00 \$ 8,295 9 RESTORATION OF LAWNS AND PARKWAYS Topsoil and sod 8,516 sq.yd. \$ 13.00 \$ 110,708 10 RESTORATION OF WETLANDS AND BUFFERS Wetland Wetland Buffer 4,667 sq.yd. \$ 30.00 \$ 21,250 Wetland Buffer 4,667 sq.yd. \$ 15.00 \$ 70,000 11 RESTORATION OF STREETS Bit. Concrete Street 787 sq.yd. \$ 62.00 \$ 48,794 PCC Sidewalk 1,500 sq. ft. \$ 13.00 \$ 19,500 12 REMOVE AND REPLACE DRIVEWAYS Bituminous 338 sq.yd. \$ 47.00 \$ 15,886	5	TREE TUNNELING		310	lin. ft.	\$ 187.00	\$ 57,970
8 CULVERT REMOVAL AND REPLACEMENT 12-inch 105 lin. ft. \$ 79.00 \$ 8,295 9 RESTORATION OF LAWNS AND PARKWAYS Topsoil and sod 8,516 sq.yd. \$ 13.00 \$ 110,708 10 RESTORATION OF WETLANDS AND BUFFERS Wetland Wetland Buffer 4,667 sq.yd. \$ 30.00 \$ 21,250 Wetland Buffer 4,667 sq.yd. \$ 15.00 \$ 70,000 11 RESTORATION OF STREETS Bit. Concrete Street PCC Sidewalk 1,500 sq. ft. \$ 13.00 \$ 19,500 12 REMOVE AND REPLACE DRIVEWAYS Bituminous 338 sq.yd. \$ 47.00 \$ 15,886	6	SEWER TELEVISING F	FOR FINAL INSPECTION	3,725	lin. ft.	\$ 2.45	\$ 9,126
12-inch 105 lin. ft. \$ 79.00 \$ 8,295 9 RESTORATION OF LAWNS AND PARKWAYS Topsoil and sod 8,516 sq.yd. \$ 13.00 \$ 110,708 10 RESTORATION OF WETLANDS AND BUFFERS Wetland Wetland Buffer 708 sq.yd. \$ 30.00 \$ 21,250 11 RESTORATION OF STREETS Bit. Concrete Street PCC Sidewalk 787 sq.yd. \$ 62.00 \$ 48,794 PCC Sidewalk 1,500 sq. ft. \$ 13.00 \$ 19,500 12 REMOVE AND REPLACE DRIVEWAYS Bituminous 338 sq.yd. \$ 47.00 \$ 15,886	7	SEWER TESTING FOR	R FINAL INSPECTION	3,725	lin. ft.	\$ 2.45	\$ 9,126
9 RESTORATION OF LAWNS AND PARKWAYS Topsoil and sod 8,516 sq.yd. \$ 13.00 \$ 110,708 10 RESTORATION OF WETLANDS AND BUFFERS Wetland Wetland Buffer 4,667 sq.yd. \$ 30.00 \$ 21,250 Wetland Buffer 4,667 sq.yd. \$ 15.00 \$ 70,000 11 RESTORATION OF STREETS Bit. Concrete Street 787 sq.yd. \$ 62.00 \$ 48,794 PCC Sidewalk 1,500 sq. ft. \$ 13.00 \$ 19,500 12 REMOVE AND REPLACE DRIVEWAYS Bituminous 338 sq.yd. \$ 47.00 \$ 15,886	8	CULVERT REMOVAL A	AND REPLACEMENT				
Topsoil and sod 8,516 sq.yd. \$ 13.00 \$ 110,708 10 RESTORATION OF WETLANDS AND BUFFERS Wetland Wetland Buffer 708 sq.yd. \$ 30.00 \$ 21,250 Wetland Buffer 4,667 sq.yd. \$ 15.00 \$ 70,000 11 RESTORATION OF STREETS Bit. Concrete Street 787 sq.yd. \$ 62.00 \$ 48,794 PCC Sidewalk 1,500 sq. ft. \$ 13.00 \$ 19,500		12-inch		105	lin. ft.	\$ 79.00	\$ 8,295
10 RESTORATION OF WETLANDS AND BUFFERS Wetland Wetland Buffer 10 RESTORATION OF STREETS Bit. Concrete Street PCC Sidewalk 11 RESTORATION OF STREETS Bit. Concrete Street PCC Sidewalk 1,500 sq. ft. 338 sq.yd. 30.00 \$ 21,250 \$ 70,000 \$ 70,000 \$ 48,794 \$ 13.00 \$ 19,500 12 REMOVE AND REPLACE DRIVEWAYS Bituminous 338 sq.yd. 347.00 \$ 15,886	9	RESTORATION OF LA	WNS AND PARKWAYS				
Wetland Wetland Buffer 708 sq.yd. 4,667 sq.yd. \$ 30.00 \$ 21,250 \$ 70,000 11 RESTORATION OF STREETS Bit. Concrete Street PCC Sidewalk 1,500 sq. ft. \$ 13.00 \$ 19,500 12 REMOVE AND REPLACE DRIVEWAYS Bituminous 338 sq.yd. \$ 47.00 \$ 15,886		Topsoil and sod		8,516	sq.yd.	\$ 13.00	\$ 110,708
Wetland Buffer 4,667 sq.yd. \$ 15.00 \$ 70,000 11 RESTORATION OF STREETS	10	RESTORATION OF WE	ETLANDS AND BUFFERS				
Wetland Buffer 4,667 sq.yd. \$ 15.00 \$ 70,000 11 RESTORATION OF STREETS Bit. Concrete Street PCC Sidewalk 1,500 sq.yd. \$ 62.00 \$ 13.00 12 REMOVE AND REPLACE DRIVEWAYS Bituminous 338 sq.yd. \$ 47.00 \$ 15,886 		Wetland		708	sq.yd.	\$ 30.00	\$ 21,250
Bit. Concrete Street 787 sq.yd. \$ 62.00 \$ 48,794 PCC Sidewalk 1,500 sq. ft. \$ 13.00 \$ 19,500 12 REMOVE AND REPLACE DRIVEWAYS Bituminous 338 sq.yd. \$ 47.00 \$ 15,886		Wetland Buffer		4,667	sq.yd.	15.00	\$ 70,000
PCC Sidewalk 1,500 sq. ft. \$ 13.00 \$ 19,500 12 REMOVE AND REPLACE DRIVEWAYS Bituminous 338 sq.yd. \$ 47.00 \$ 15,886	11	RESTORATION OF ST	REETS				
PCC Sidewalk 1,500 sq. ft. \$ 13.00 \$ 19,500 12 REMOVE AND REPLACE DRIVEWAYS Bituminous 338 sq.yd. \$ 47.00 \$ 15,886		Bit. Concrete Stree	t	787	sq.yd.	\$ 62.00	\$ 48,794
Bituminous 338 sq.yd. \$ 47.00 \$ 15,886		PCC Sidewalk		1,500		\$ 13.00	\$
1 9	12	REMOVE AND REPLAC	CE DRIVEWAYS				
		Bituminous		338			\$ 15,886
		Concrete		1 100	sq.yd.	79.00	\$ 7,900

February 2020

No.	Pay Item	Approx Qua			Unit Price	Amount
						7 0
13	TREE REMOVAL AND TRIMMING:			Lun	np Sum	\$ 18,807
14	EROSION CONTROL:			Lun	np Sum	\$ 15,564
15	TRAFFIC CONTROL:			Lun	np Sum	\$ 18,158
	SUBTOTAL					\$ 1,373,201
SEI	RVICE LATERALS					
1	BUILDING SERVICE LINES Near side Far side	135 306	lin. ft. lin. ft.	\$ \$	48.00 48.00	\$ 6,480 14,688
2	BUILDING SERVICE BRANCH FITTINGS Near Side	9	each	\$	540.00	\$ 4,860
	Far side	6	each	\$	665.00	\$ 3,990
3	BUILDING SERVICE PLUG:	15	each	\$	203.00	\$ 3,045
4	RESTORATION OF LAWNS AND PARKV Topsoil and sod	VAYS 350	sq.yd.	\$	12.50	\$ 4,375
5	RESTORATION OF STREETS: Bit. Concrete Street	128	sq.yd.	\$	61.00	\$ 7,808
6	TRENCH BACKFILL 8-12 feet deep	168	lin. ft.	\$	81.00	\$ 13,608
7	REMOVE AND REPLACE DRIVEWAYS Bituminous	0	sq. yd.	\$	46.00	\$ 0
	SUBTOTAL					\$ 58,854
	TOTAL ESTIMATE OF CONSTRUCT	TION COST				\$ 1,433,000
		Contingencies Engineering Legal / Admin Easement Acqu	(20%) (20%) (6%) uisition			287,000 287,000 121,000 112,500
	TOTAL OPINION OF PROBABLE CO	DST				\$ 2,250,000
				C	Cost per lot	150,000

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General Manager Amy R. Underwood

Legal CounselMichael G. Philipp

2710 Curtiss Street P.O. Box 1412 Downers Grove, IL 60515-0703 Phone: 630-969-0664 Fax: 630-969-0827 www.dgsd.org

Providing a Better Environment for South Central DuPage County

Memo

To: Board of Trustees

From: Alex Bielawa, Staff Engineer

Date: April 16, 2020

Subject: Sludge Hauling & Land Application Services Contract Award

We opened bids for the Sludge Hauling & Land Application Services Contract project on April 14, 2020.

The project scope includes the hauling, transport, and land application of approximately 4,000 cubic yards annually for two years of dewatered municipal Class B biosolids.

We received two bids for the project. The low bidder, Dahm Enterprises of Woodstock, Illinois has previously conducted work at the wastewater treatment center, and is well qualified to do this work.

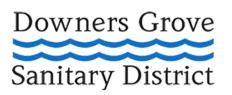
Staff recommends awarding the Sludge Hauling and Land Application Services Contract to Dahm Enterprises of Woodstock, Illinois, in the amount of \$163,200, and will be seeking permission for the general manager to engage the contractor for this work.

C: BOLI, ARU, WCC, MRM, MGP

DOWNERS GROVE SANITARY DISTRICT 2020- SLUDGE HAULING & LAND APPLICATION SERVICES BID TABULATION April 14, 2020

		DAHM ENTERPRISES WOODSTOCK, IL 60098		STE	WART SPREADING SHERIDAN, IL 60551	
PAY ITEM	QUANTITY	UNIT PRICE		AMOUNT	UNIT PRICE	AMOUNT
 CLASS B HAULING, TRANSPORT, LAND APPLICATION 4/2020 - 3/31/2021 	4,000 c.y.	\$20.25		\$81,000.00	\$20.25	\$81,000.00
2. CLASS B HAULING, TRANSPORT, LAND APPLICATION 4/1/2021-3/31/2022	4,000 c.y.	\$20.55		\$82,200.00	\$21.00	\$84,000.00
TOTAL BID				\$163,200.00		\$165,000.00
				LOWEST RESPONSIVE, RESPONSIBLE BIDDER		

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Providing a Better Environment for South Central DuPage County

Memo

To: Amy R. Underwood, General Manager

From: Alex Bielawa, Staff Engineer

Date: April 16, 2020 Subject: Composting Pilot

The Biosolids Program Improvements report, which I presented to the Board of Trustees at the December 2019 Board meeting, recommended that the District proceed with the combined alternative of composting biosolids and installing a cover over the sludge drying beds. This recommendation was conditional upon operating a composting pilot to confirm the suitability of the concept for our operation. The composting pilot study needs to demonstrate that the process will perform as expected, providing a Class A biosolids product without creating nuisance odors. The composting pilot will be used to train the District staff on the operations and maintenance of a composting facility to ensure the success of future operations of a permanent, full scale facility.

Two companies have been found which could rent the District composting equipment (i.e., cover, blower, aeration piping, temperature probe and control system). They are Sustainable Generation, LLC (SG) and Manageable Organic Recycling, Inc. (MOR). SG has provided similar biosolids pilots and full scale installations at other treatment facilities in the Midwest, as well as other facilities in the country and world. MOR has performed several demonstrations which were primarily in warmer climates and included food waste in the compost. MOR only had one biosolids only demonstration.

I requested a quote from each company for a composting pilot. The SG quote was \$49,700, and the MOR quote was \$15,000. After reviewing the scope of services from each company, I determined that the difference in price is due to the level of professional services included. MOR indicated that they would be on site for the initial startup and provide some training at that time, however they would not provide professional services beyond that. SG will provide the following professional services:

- Project planning
- Installation of the equipment (on-site)
- Controls functional testing (on-site)
- Software configuration, including remote configuration and functional testing (on-site)
- Classroom and hands on training (on-site)
- On-site supervision during five different trips to assist the District with the initial recipe mix, heap construction for each of three phases and screening of the compost
- Demobilization assistance (on-site)

- 24/7 technical support via phone, virtual meetings and additional sites visits as needed to ensure the successful operation of the pilot
- Progress meetings, as needed
- Final report preparation

I requested that each company break down their quote to show what portion is rental fees versus professional services. SG provided a breakdown of their prices which indicated the six month rental of the equipment was \$10,000. MOR was unresponsive to this request.

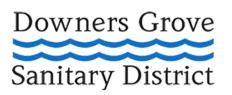
Professional services will be a key aspect of the pilot; as it will provide a foundation for the District to run the future program if the pilot is deemed successful. The District's procurement policy states that professional services are to be selected based on qualifications. SG is qualified and proposing to provide the professional services the District needs in order to make the pilot successful, and I therefore recommend that the District select SG for this project.

Mike Philipp has provided a legal review of the proposed service agreement with SG, and his recommended modifications have been accepted and incorporated.

I recommend that we seek approval from the Board at the April 21, 2020 meeting for the General Manager to enter into a service agreement with Sustainable Generation, LLC of Wilmington, Delaware in the amount of \$49,700 for the biosolids composting pilot.

C: BOT, BOLI, WCC, JPB, MRM, MGP

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Providing a Better Environment for South Central DuPage County

Memo

To: Board of Trustees

From: Amy R. Underwood, General Manager

Date: April 17, 2020

Subject: CHP Systems Comparison

Consistent with the recommendation in the FOG Acceptance and CHP Operation Economics report that retired General Manager, Nick Menninga, presented at the December 2019 Board meeting, replacement of CHP #1 is budgeted for FY 20/21. As you will recall, CHP #1 had an engine failure in August 2019, was determined to be no longer economically feasible to maintain and was sold back to the manufacturer, Tech 3, for parts. At the District's request, Baxter & Woodman has reviewed CHP systems for replacement of CHP #1. B&W's technical memorandum describing their findings is attached for your review and information.

B&W evaluated two internal combustion (IC) reciprocating CHP systems, one by Nissen Energy and the other by Altorfer CAT, and one turbine CHP system by Flex Energy. B&W also attempted to include another gas engine manufacturer, GE Jenbacher, in the analysis, but did not receive a response from them. Based on the two engine failures that CHP #1 had and the fact that the manufacturer would not honor the warranty, Tech 3 was excluded from the analysis.

District staff and B&W met twice in virtual meetings to discuss B&W's analysis, to receive follow-up information in response to the District's questions, and to determine how staff would like to proceed. Based on the attached technical memorandum and the discussions during our virtual meetings, the Nissen CHP system is the only viable option for the following reasons:

- 1. The FlexEnergy turbine was determined to not be an option as an additional compressor and upgrades to the existing biogas conditioning system would be required. These would be a significant additional expense to the project.
- 2. While the Altorfer CAT unit fits within the existing room, it takes up too much space. District maintenance staff have indicated that sufficient space would not be available

- around the equipment to allow for maintenance. The code required ingress/egress path width from the west side of the room to the personnel door would no longer be met.
- 3. The Altorfer CAT unit is more susceptible to changes in BTU content of the biogas than the Nissen or FlexEnergy units. District operations staff are not comfortable with the limited rate of BTU change that the Altorfer CAT unit can tolerate as the biogas has exceeded this at times in the past.

District staff is very comfortable and satisfied with the operation and maintenance of the existing 375-kW Nissen CHP unit as well as the service that we have received from Nissen. In addition, the District maintenance staff sees a benefit to being able to have common parts in stock.

District staff recommends proceeding with the Nissen CHP system as the basis of design for the CHP #1 replacement.

C: BOLI, WCC, MGP



TECHNICAL MEMORANDUM

DATE: April 8, 2020

TO: Downers Grove Sanitary District

FROM: Baxter & Woodman, Inc.

SUBJECT: 200328.40 DGSD1 – CHP Systems Comparison

This technical memorandum presents the results of the evaluation performed by B&W to compare four different Combined Heat and Power (CHP) manufacturers. Out of the four manufacturers evaluated, two presented internal combustion (IC) reciprocating CHP systems (Nissen Energy and Altorfer CAT), one presented a turbine CHP system (Flex Energy), and one was unresponsive (GE Jenbacher).

The IC systems proposed by Nissen Energy and Altorfer CAT presents similar efficiencies and comparable capital cost, with Nissen Energy ranking best on both aspects. The turbine option proposed by FlexEnergy presents a higher cost and a higher complexity than the IC systems, since it would require modifications to the biogas inlet pressure and to the gas conditioning system. The crucial difference between the Nissen and Altorfer CAT IC systems is the size and ability to fit into the existing space. The Altorfer CAT system would barely fit in the existing space allowing for roughly 3' of clearance from the North/South walls.

We recommend pursuing the Nissen Energy CHP option, due to its compact size (that will improve accessibility), lower cost, high efficiency, responsive team, and previous positive experience that the District has with their systems.

CHP Systems Comparison

Manufacturer	Nissen Energy	Altorfer CAT	FlexEnergy	GE Jenbacher
Headquarters	Denmark Office in Chicago, IL	Elmhurst, IL	Portsmouth, NH	Austria Office in Waukesha, WI
Contact Person	Michael Nissen	Gil Sharp	Beau Follis	Amanda Medcalf
Electrical Output	375 kW	400 kW	333 kW	
Thermal Output	1.45 MMBTU/h	1.34 MMBTU/h	0.72 MMBTU/h	
Base Price	\$433,000	\$463,500	\$545,900	
Efficiency, full load	83.8%	82.9%	63%	
Efficiency, 50% load	85.3%	83.4%	Turndown not available	Unresponsive
Simple Payback Period	2.30 years (does not include construction cost)	2.35 years (does not include construction cost)	N/A	
Fuel Characteristics				
Fuel Type	Biogas	Biogas	Biogas	
Fuel Input	3.26 MMBTU/hr	3.28 MMBTU/hr	3.58 MMBTU/hr	



Manufacturer	Nissen Energy	Altorfer CAT	FlexEnergy	GE Jenbacher
Fuel Inlet Pressure [psi]	0.44 – 1.45 psi	1.60 – 2.17 psi	110-140 psig; current fuel pressure is 2 psig	
Tolerance to Fuel Cha				
Acceptable Methane %	>55% CH ₄ for full load	50%-70% CH ₄	55%-88% CH ₄	
Tolerable Rate of Δ BTU	15% CH₄ change per minute	5% CH ₄ change per minute (susceptible to methane % changes)	15% CH ₄ change per minute	
Is existing conditioned biogas quality acceptable?	Yes	Yes	No, siloxanes must be < 60 ppbv. current is 100 ppbv	
Additional Equipmen	t Details			
Scope	All equipment shipped loose	All equipment shipped loose	All equipment shipped loose	
Unit Size (no enclosure unless otherwise stated)	175" L x 72" W	221" L x 71" W, no clearance/tight fit	165" L x 82" W, comes with enclosure	
Island Mode Option	Available at no added cost	Available at no added cost	Available at no added cost	
Controls	Based on input BTU meter (included)	Methane meter adjusts the AFRC	Constant speed	Unresponsive
Auxiliary Equipment	& Ventilation			
Required Ancillary Equipment	None	None	Requires ~\$100,000 45kW biogas compressor (provided by others)	
Ventilation System	Adder is \$49,000	Not included (provided by others)	Not included (provided by others)	
Maintenance & Servi	cing			
Optional Maintenance Contract	<40,000 run hours \$135,000 total (assuming owner performs regular maintenance)	<32,000 run hours \$140,000 total (assuming owner performs regular maintenance)	5/10 year plans for \$36k/\$48k, respectively	
AVG Annual Downtime	20 days	Data unavailable	3 days	
Time until maintenance overhaul/rebuild	40,000 run hours for major engine overhaul	32,000 run hours for major engine overhaul	After ~50,000 run hours	
Other				
No. of installations	5 US installations, 233 worldwide	534 installations	400 installations	



	- Most efficient	- Most installations	- Extremely low	
Comments	- Most responsive	- Space constraints	exhaust emissions	
Comments	- Tried and true (CHP	- Advertised lower	- No external	
	No. 2)	maintenance	radiator required	

Nissen Energy System

The proposed 375 kW IC reciprocating CHP system from Nissen Energy is nearly identical to the existing 375 kW CHP No. 2 system at Downers Grove Sanitary District (DGSD). The total package comes at a cost of \$482,000 including the ventilation system. The Nissen system is the most efficient CHP system in this comparison and it would not require any modifications to the existing gas conditioning system at DGSD. It is important to note that IC reciprocating CHP engines like the Nissen system require a low fuel inlet pressure and can handle a "dirtier" fuel gas. However, IC reciprocating engines generally have higher exhaust emissions and more downtime for maintenance than their turbine counterparts.

Currently, about 80% of the CHP systems in Denmark are Nissen systems while they currently have 5 active installations in the US. An advantage of DGSD selecting the Nissen system is that DGSD will work directly with Nissen Energy's Chief Technology Officer (CTO), Michael Nissen, who has proven to be extremely responsive and very knowledgeable from a detailed design perspective. The Nissen system has "island mode" capabilities built-in where it can start up without being connected to the main power grid.

Altorfer CAT System

The proposed 400 kW IC reciprocating CHP system from Altorfer CAT is similar to the Nissen system besides providing slightly more electrical power. The package comes at a cost of \$463,500 and does not include the required ventilation system making it less cost effective than the Nissen system. The Altorfer CAT system is slightly less efficient than its Nissen counterpart but has the advantage of 534 installations. Altorfer CAT included a \$140,000 maintenance contract option for <32,000 run hours assuming the owner performs regular maintenance. While average downtime per year data is unavailable, it is safe to say that the average downtime is similar to the Nissen system at about 20 days a year. Additionally, the Altorfer CAT system has "island mode" capabilities included at no added cost.

It is important to note the larger size of the Altorfer CAT system and how it tightly fits into the available space. Reference the attached exhibit for size comparisons. With the Altorfer CAT system, North/South clearances between the walls would be greatly reduced when compared to the other two systems.

Flex Energy System

The proposed 333 kW turbine CHP system from Flex Energy comes at a cost of \$545,900 and does not include the required ventilation system. At this size and fuel type, the turbine is much less efficient (63%) than its IC reciprocating engine counterparts. It is important to note that turbine CHP systems have a wide power generation range and generate more electrical power (341 kW) at lower temperatures (15°F) and generate less power (280 kW) at higher temperatures (87°F). This is because they are entirely dependent on the physical properties of the combustion air that fluctuates as temperature changes. The Flex Energy turbine system uses an air-to-water heat exchanger for heating the water in the customer's hot-water loop that is controlled by an automated damper.



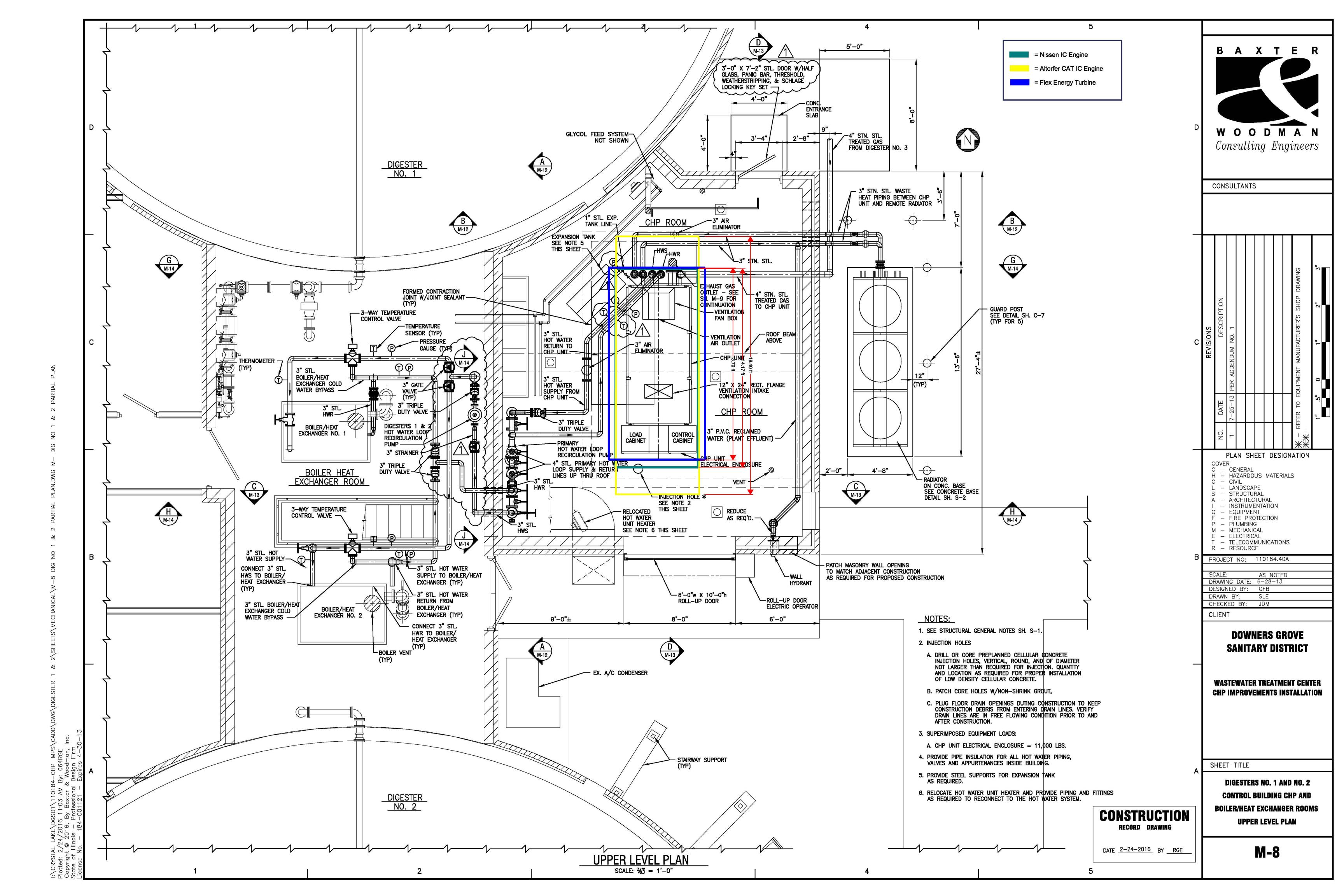
The Flex Energy turbine system requires a high pressure fuel at 110-140 psig, which would require an additional 45kW compressor (estimated at \$100,000) to boost DGSD's existing 2-psig fuel pressure. Additionally, the turbine system cannot handle biogas with siloxane concentrations larger than 60 ppbv, which would require upgrades to DGSD's existing gas conditioning that is currently reducing siloxane concentrations to 100 ppbv.

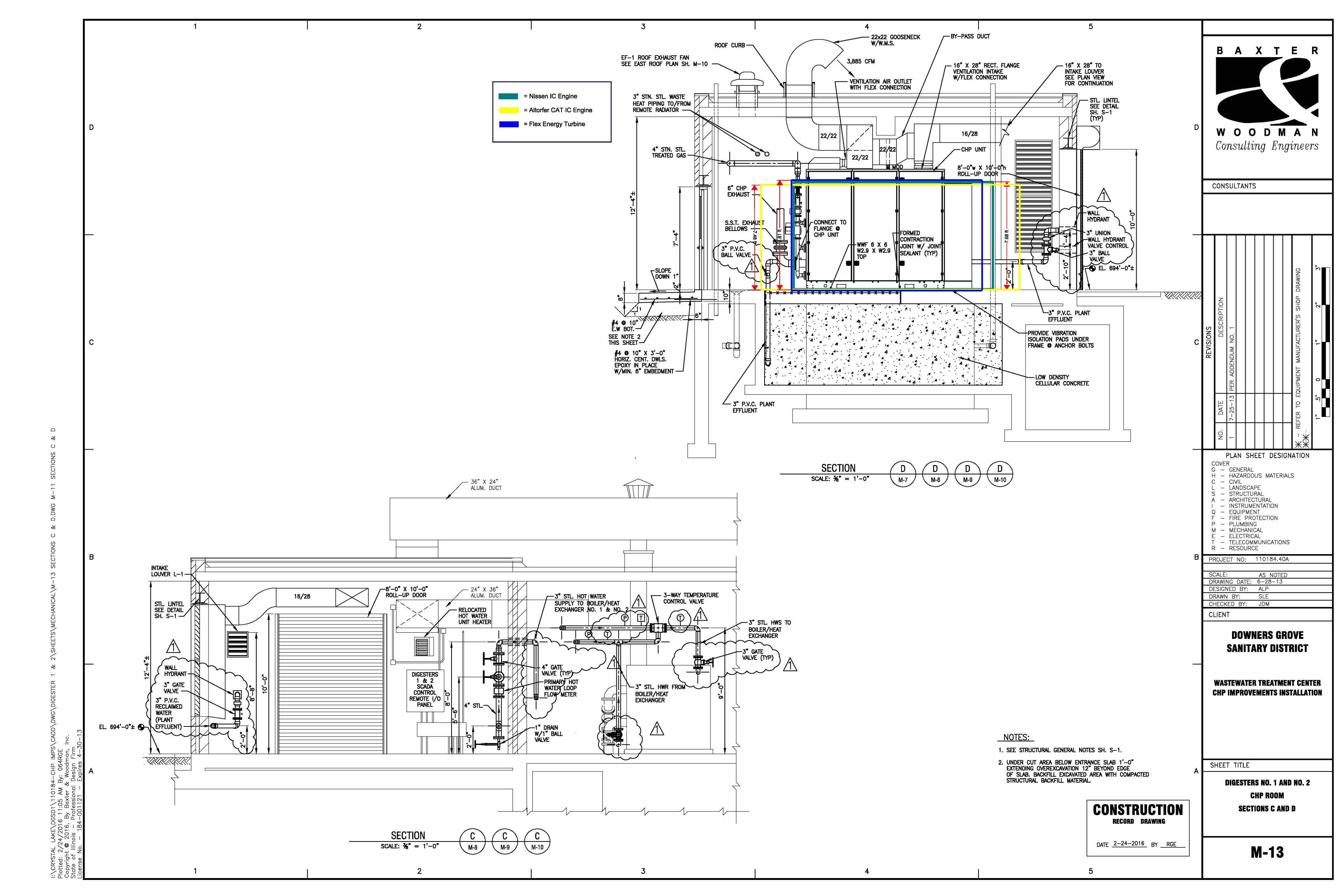
The turbine system requires a significantly larger capital cost than the IC reciprocating engine systems, but the turbine system requires significantly less downtime per year (3 days). The turbine system has an "island mode" option included with the base price which allows the CHP system to start when power from the main electrical grid is lost. Unlike the IC reciprocating engines the turbine system does not require an external radiator and has extremely low exhaust emissions.

GE Jenbacher System

The GE Jenbacher products are made in Austria and distributed in the US by the local company Clark Energy (Waukesha, Wisconsin). GE Jenbacher CHP system was stricken from consideration after they failed to provide an adequate proposal within the allotted time frame.

I:\Crystal Lake\DGSD1\200328-CHP No. 1 Replace\40-Design\06 Calculations, Basis of Design, Hydraulics, Sketches\Process Equipment\CHP Engine\Work\Tech Memo_CHP.docx





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Providing a Better Environment for South Central DuPage County

Memo

To: Board of Trustees

From: Amy R. Underwood, General Manager

Date: April 17, 2020

Subject: CHP #1 Replacement Project Delivery Method

Consistent with the recommendation in the FOG Acceptance and CHP Operation Economics report that retired General Manager, Nick Menninga, presented at the December 2019 Board meeting, replacement of CHP #1 is budgeted for FY 20/21. At the time District staff prepared the budget in February, we intended to purchase the new CHP unit under a separate procurement contract, split the installation work by trade, and hire the specialty contractors individually after soliciting quotes. (It was anticipated that each portion of the installation would be below the \$40,000 public bid threshold.) It was expected that the District electricians would self-perform part of the work. With this approach, District Maintenance Supervisor, Jeff Barta, would have acted as the Construction Manager. When District staff met in early March to discuss this project, Jeff Barta indicated that District staff were too busy to perform the work in this manner. District staff discussed alternate project delivery methods and determined that this is an ideal project to complete using the Design-Build Method.

Project Delivery Methods

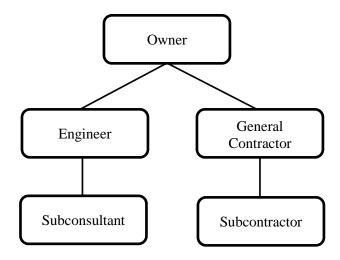
Construction projects are typically delivered with one of the following three methods:

- Design-Bid-Build (Traditional Method)
- Design-Build
- Construction Management

In the <u>Design-Bid-Build</u> or Traditional Method, the Owner contracts with an Engineer to complete the design of the project and then separately contracts with a General Contractor (GC) to complete the construction of the project. Typically, the Engineer's completed plans and

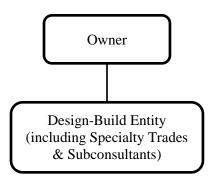
specifications are advertised for bid, and the construction contract is awarded to the lowest, responsible, responsive bidder. While preparing his bid, the GC will receive competitive quotes from vendors and subcontractors to provide equipment and materials and complete the specialty portions of the work. Subcontractors are therefore typically selected by the GC based on lowest price.

DESIGN-BID-BUILD (TRADITIONAL) METHOD



In the <u>Design-Build</u> Method, the Owner contracts with a single entity that provides both the design services and the construction (build) services. The Engineer, Contractor and Subcontractors work as a team to complete the project. Subcontractors may be selected based on lowest price or qualifications.

DESIGN-BID METHOD



In the <u>Construction Management</u> Method, the Owner contracts with an Engineer to complete the design of the project and separately contracts with a Construction Manager (CM) to manage the construction phase of the project. As with the Traditional Method, the Engineer completes the plans and specifications. The CM, who is selected based on qualifications, will negotiate with the

Owner a guaranteed maximum price to complete the work based on the Engineer's plans. The CM is responsible for splitting the work into smaller packages and contracting with vendors and subcontractors to complete the work.

Design-Build Procurement

The District may select the Design-Build Entity based on qualifications. The design and construction management portions of the design-build work are professional services. The District's Procurement Policy and the Sanitary District Act of 1917 both state that competitive bidding requirements do not apply to professional services. In addition, the Sanitary District Act of 1917 states that competitive bidding requirements do not apply to a facility that will be "designed, built, and tested before being conveyed to the sanitary district." I requested a legal opinion from the District's Legal Counsel, Mike Philipp. Mike responded that "the CHP replacement project can move forward on a no-bid design-build program on both the argument that (a) this is a professional services contract involving a high degree of expertise that is not commonly available in the marketplace and (b) the CHP is a 'facility' being designed and built for us."

Advantages and Disadvantages of the Design-Build Method

The Design-Build Method has the following advantages:

- A Design-Build project is able to be completed in a reduced timeframe in comparison to a Design-Build project. The reduction in project time is possible due to the following:
 - The time required to put the finished design out to bid and obtain bids is eliminated.
 - On a Design-Build project, the Engineer typically prepares the design to about 30% completion at which time the contractor can start working on the construction.
 - o Long lead items may be ordered earlier in the process, often during the design phase. The proposed CHP unit has a 24 week lead time.

For this specific project, we estimate that performing the work Design-Build instead of Design-Bid-Build could save six to eight months. Time translates into savings for the District, especially on a project of this nature. We would have significant savings in electricity by operating at net-zero several months earlier.

- Since the Engineer is on the team with the Contractor, constructability issues which could lead to a change order on a Design-Bid-Build project are addressed during the course of the work without reaching the Owner. This results in fewer project change orders.
- Since the project does not need to be competitively bid when using the Design-Build Method, the Design-Build Entity or design-builder may be selected based on

qualifications. This allows the District to select an entity to complete the work that we have experience working with and trust to do the job to our satisfaction. When a project is bid, we are required to take the lowest, responsive, responsible bidder. It is very difficult to dispute whether a contractor is "responsible". A contractor is considered responsible if they provide with their bid a list of similar projects which they have completed, regardless of how well they performed those projects.

• The Design-Build Method has reduced engineering expenses. Where the engineering expenses on a Design-Build project may be about 15%, they would typically be 10% on a Design-Build project.

The Design-Build Method has the following potential disadvantages:

- If the guaranteed maximum price is not sufficient to cover the project cost, the contractor
 would then have an interest in cutting costs and may compromise quantity and quality of
 materials. In order to avoid this, it is important to select an experienced Design-Build
 Entity. On our CHP replacement project, the scope of work is detailed enough and small
 enough that the Design-Build Entity should have sufficient information to prepare a
 competent guaranteed maximum price.
- Since the Design-Build Entity selection is based on qualifications, it is possible that the guaranteed maximum price may not be competitive. In order to ensure competitive pricing, the District will request a detailed breakout of the guaranteed maximum price. We have the fee break down for the previous CHP projects as well as costs for other equipment installation, piping and electrical projects to compare against the proposed guaranteed maximum price for this project and thus ensure that it is competitive. If we determine that the price is not competitive, we could request that the Design-Build Entity get additional quotes from other subcontractors, we could select a different Design-Build Entity, we could decide to use a different delivery method, or we could cancel or delay the project.

Design-Build Entity Selection

Baxter & Woodman (B&W), who has been the District's engineer for sixty years, is part of an established Design-Build Entity, Baxter & Woodman/Boller, LLC, with Boller Construction Company, Inc. The attached Design-Build brochure describes the Design-Build experience of Baxter & Woodman/Boller, LLC. A few of the projects listed are located in DuPage County. The brochure highlighting the Glenbard Wastewater Authority CHP project is attached for your information as that project is the most relevant to our proposed CHP project.

Boller was the GC on the CHP #1 project and the west grease receiving station project. District staff were very satisfied with Boller's performance and work as well as that of their subcontractors on the CHP #1 project.

We have determined that Baxter & Woodman/Boller, LLC is qualified to perform the CHP Replacement Project using the Design-Build Method. Based on the District's long term relationship with B&W and the quality of the past work performed by Boller, District staff recommends that we proceed with negotiating a project scope and guaranteed maximum price with Baxter & Woodman/Boller, LLC. District staff intends to present this to the Board at the May 18, 2020 meeting for approval.

C: BOLI, WCC, MGP

POTENTIAL DELIVERY METHOD OPTION DESIGN-BUILD

Baxter & Woodman has found that many of our client communities can save time, money, or both by utilizing a project delivery method that complements your project goals.

The **DESIGN-BUILD** project delivery method is where the Owner hires one entity (called the design-builder) to do both the design and construction. Design-Build projects optimize the Owner involvement in the design of the improvements and selection of materials and equipment, and can be completed more quickly and without the tension of the Owner-Engineer-Contractor relationship. The single-source responsibility placed on the design-builder offers a distinct advantage when it comes to responsibility for errors, omissions, or mistakes. There is also the benefit of the reduced project schedule from design through completion and project start-up. Another benefit is that the costs are known very early in the process, usually before the design-builder has a contract. Whereas traditionally, the cost is only known after design and bidding is well into the process.

Benefits of Design-Build Approach

The Design-Build project delivery method and an expedited implementation schedule will decrease the time needed to install and start up critical equipment or facilities. *Construction can be completed on average 10-12 months sooner using a Design-Build approach.*

Our Team Delivers Successful Design-Build Projects All the Time

Baxter & Woodman/Boller Construction, LLC is an established Design-

Build Entity that have completed many successful projects for neighboring communities. We are also members of The Design Build Institute of America (DBIA) and follow the latest research on the use and delivery of design-build in the water and wastewater sector. Our Design-Build entity allows us to efficiently prepare a technical set of plans and specifications while controlling schedule and costs.

Baxter & Woodman's recent Design-Build projects include:

- Elmhurst South Digester Improvements
- Oak Forest Water System Performance Contract
- Schaumburg Water Distribution System Improvements
- Mundelein Water/Wastewater Energy Performance Contract
- Glenbard Wastewater Authority Combined Heat & Power Improvements
- Plainfield Lake Michigan Water Transmission
- Rochelle WRF Blower Replacement
- Carol Stream Aeration System Energy Efficiency Improvements



ELMHURST CASE STUDY



The recent Elmhurst digester cover replacement project is a great example of the successful application of Design-Build approach to construct needed emergency repairs quickly after the digester cover failed. Our Baxter & Woodman/Boller team was able to design and complete the improvements in a matter of months.

GLÉNBARD WASTEWATER AUTHORITY, IL COMBINED HEAT & POWER IMPROVEMENTS

Baxter & Woodman was hired by Glenbard Wastewater Authority to take a conceptual CHP solution (prepared by the Authority in the grant application) and make it a reality. Limited timing was available in order to meet the Department of Commerce and Economic Opportunity (DCEO) and Illinois Clean Energy Community Foundation (ICECF) grant funding deadlines.

The design was approved by the Authority's Executive Oversight Committee and a Design-Build Joint Venture contract with Boller Construction, Inc. was executed.

Baxter & Woodman completed permitting and produced construction documents in just under 9 months. Baxter & Woodman also performed construction and start-up services to help deliver the project on time and at budget. Finally, Baxter & Woodman procured instrumentation and performed control integration for the project.

At just below \$5M, this was one of the most challenging projects the Authority has undertaken and was successfully completed from start to finish in just under one year.

The Combined Heat and Power (CHP) Project at the Glenbard Wastewater Authority provides on-site generation of electricity

and thermal energy using digester gas generated during the plant's anaerobic treatment process. Renewable fuel use offsets third party energy costs and works toward the Authority's goal of becoming a zero net energy facility.

The project included installation of two CHP units totaling 760 kW of electrical, 2.88 MMBTU/hr of heat generating capacity, a biogas conditioning system, and support facilities.

The project was designed, built, and operational using designbuild project delivery in under 12 months, qualifying for nearly \$1M in public grant funding.

> Biogas conditioning system (right) CHP Units and Piping (left)



HIGHLIGHTS:

2017 ACEC Engineering
Excellence National Recognition
Award recipient

2017 ACEC - Illinois Engineering Excellence Honor Award recipient

- Design-Build to expedite project and meet grant funding deadlines.
- Uses digester gas generated within the plant to provide electricity and thermal energy for plant operations.

COMPLETED: 2016 (less than 12 months!)

REFERENCE:

Matt Streicher, Executive Director Glenbard Wastewater Authority (630) 790-1901



DOWNERS GROVE SANITARY DISTRICT

<u>M E M O</u>

TO: Amy R. Underwood General Manager

FROM: W. Clay Campbell

Administrative Supervisor

DATE: April 17, 2020

RE: Progress Report – March, 2020

ADMINISTRATIVE

Personnel

The District's Admin Center continues to be closed to foot traffic from the public until May 1 in accordance with Governor Pritzker's Stay At Home Order through April 30. Administration department staff has continued to effectively work remotely from home starting halfway through March to date. While it has been challenging, we have continued to provide consistent and timely customer service through answering customers' inquiries during most daily working hours, returning calls received by the District's answering service, and even through our well-established online presence. Part-Time Office Clerical Worker Megan MacQuilkin has been particularly essential in making the District's customer service operation viable during this challenging time. Megan has staffed the office on Mondays through Thursdays with User Billing Coordinator Adrienne Kasper supporting as well on Fridays. All of my employees have been amazingly resilient and willing to go the extra mile.

The District was planning on hiring two Summer Building and Grounds Workers for the WWTC and has received a couple of applications for the positions, but staff is currently undecided on how we will be able to proceed in the event the current COVID-19 pandemic persists.

Reimbursement Program for Sanitary Sewer Backups Caused by Public Sanitary Sewer Blockages

There have been no new backups resulting from a mainline blockage since the last update, and as a result, I have not included a new summary.

DuPage County Reporting

Amy, Alyssa and I continue to update the DuPage County Board Chairman's office in compliance with the requirements of the County's reporting ordinance. Most recently, we provided the Chairman with a copy of the District's Appropriation Ordinance for Fiscal Year 2020-21, approved Five-Year Plan for Fiscal Years 2020-21 to 2024-25 and the adopted Ordinance ORD No. 20-01 revising the District's rates and fees.

OSHA Log

As required by the Illinois Department of Labor, the OSHA Form 300A for 2019 has been completed and will be posted from February 1 to April 30.

Open Meetings Act Compliance

In accordance with Section 7.3 of the Open Meetings Act, staff posted information on the District's website related to the total compensation package for all employees following approval of the District budget for the next fiscal year.

Safety Committee and Related Safety Matters

The Safety Committee did not meet in March due to the ongoing Stay At Home order from Governor Pritzker. Safety Coordinator Jessie Gwozdz has continued to focus on safety matters for the District as she works remote. She has been following up with supervisors to ensure employees are being equipped with appropriate personal protective equipment, disinfection supplies and other necessary gear during the current pandemic. She has also been working on several Fiscal Year 2020-2021 safety initiatives in anticipation of all employees returning to the workplace.

Group Health Insurance Renewal

There is a separate memo in the Board Packet regarding this item.

Technology Update

Due to the remote work needs of various employees, the District upgraded its high-speed connection through Xfinity in order to support the higher number of users and bandwidth needs of the organization during this time. Several employees were equipped with Chromebooks to assist them in remotely accessing their District workstation. As well, the District purchased a business level account with Zoom in order to provide video meeting capabilities for coordinating tasks that typically require in person group dialogue and collaboration. Staff anticipates holding the April 21 regular board meeting using this platform. Staff will be posting a link on its website to allow the public an opportunity to attend the meeting by video and/or audio means in compliance with the Illinois Open Meetings Act. As well, during the public comment portion of the meeting, staff can provide an opportunity for any attending members of the public to be heard.

Maintenance Supervisor Jeff Barta and I are coordinating the replacement of the District's video surveillance server with Sound Inc. (you'll notice a vendor payment to them on this month's claim ordinance as a result). We anticipate the upgraded server will be deployed in the next month. The current server was installed in 2014 and both the hardware and software are in need of replacement. The new server will offer increased data retention and more flexibility for an upgrade path in another six years.

Concentric Integration is assisting the District with upgrading several of its servers to a newer operating system to ensure operability in the future and to continue to have support from Microsoft. As well, Maintenance Supervisor Jeff Barta is coordinating with Mike Klein of Concentric Integration regarding potential PLC architecture replacements at the WWTC over the next several years as that infrastructure is approximately 20 years old and is nearing end of serviceable life.

The following is a detailed summary of the Invoice Cloud portal's utilization in the last month and since the portal's launch in February 2015 through the end of last month:

# of Customers registered in the last month:	89
# of Customers paying their bills online in the last month:	1,299
Amount of Money processed through the Portal in the last month:	\$79,144.85
# of Customers signing up for Autopay through the Portal in the last month:	36
# of Customers enrolled in paperless billing in the last month:	54
# of customers registered for pay by text in the last month:	18
Cost to District for providing Invoice Cloud service in the last month:	\$391.80
Cost to District's customers (convenience fees) in the last month:	\$2,314.83
Estimated Monthly savings from customers enrolled in paperless billing:	\$62.73
# of Customers registered from launch through last month:	4,721
# of Customers signing up for Autopay through the Portal from launch through last month:	1,296
# of Customers enrolled in paperless billing from launch through last month:	2,091
# of customers registered for pay by text from launch through last month:	1,415

FINANCIAL

Annual Audit

Preliminary audit work will begin with Lauterbach & Amen, LLP in early May and the regular fieldwork is scheduled for late May.

Appropriation Ordinance for FY20-21 and Ordinance No. ORD 20-01

The Appropriation Ordinance for FY20-21 was published in the paper on March 19 and filed with the DuPage County Clerk on April 1 by mail. Ordinance No. ORD 20-01 (changes in rates and fees) was published in the paper on March 19 as well. Per state statute, changes in the rates and fees took effect on Sunday, March 29.

Treasurer's Report and Investment Activity

The monthly Treasurer's Report is included separately in the packet each month and detailed investment information (financial institution name, current rate and dollar amount) is provided on the District's Investment Schedule also provided separately in the packet each month.

<u>User Billing</u>

To alleviate potential hardships for the District's customers, Amy and I have decided to waive any penalties for unpaid customer account balances in the month of April. We will continue to monitor the general state of unpaid balances as April continues to determine if additional action should be taken for the month of May.

Detailed billing information is attached to this report.

CODE ENFORCEMENT & UNSEWERED AREAS

<u>Building Sanitary Service Repair Assistance Program; Infiltration and Inflow Removal Program; and Overhead Sewers and Backflow Prevention Devices Reimbursement Program</u>

I have continued to perform the legal review of both Program Agreements and Access Agreements for all of the above programs as prepared by our office prior to execution by the parties.

Sewer Permitting Process

I have continued to perform the legal review of Access Agreements and Annexation Petitions prepared by our office as needed by sewer permit applicants.

cc: WDVB, AES, PWC, KJR, RTJ, MJS, MGP

USER BILLING SUMMARY

User Charge System

Billings for March 2020 were as follows:

User	\$221,661.04
Surcharge	18,239.70
Monthly fees	334,702.66
Total	\$574,603.40
Summer Usage Adjustment	\$0.00
Billable Flow	130,388,847
Budgeted Billable Flow	129,807,756
% Actual/Budgeted Billable Flow	100.45%
YTD Billable Flow	1,663,104,995
YTD Budgeted Billable Flow	1,789,867,644
% Actual/Budgeted Billable Flow	92.92%

The user accounts receivable balance on 3/31/2020 is \$566,567.03 and consists of:

Current charges due 3/16/20	\$448,594.48
Past due charges and penalty	117,972.55
Total	\$566,567.03

The past due charges represent:

Age	<u>User Charges</u>	<u>Penalty</u>	<u>Totals</u>
30 days past due 60 days past due 90 days & greater past due	\$46,664.72 12,473.19 45,678.23	\$5,297.85 1,768.57 6,089.99	\$51,962.57 14,241.76 51,768.22
Totals	\$104,816.14	\$13,156.41	\$117,972.55

Summary of Past Due Charges (90 Days and Over)

Five Year Comparison

March

Year	<u>User Charges</u>	<u>Penalty</u>	<u>Total</u>
2020	\$45,678.23	\$6,089.99	\$51,768.22 *****
2019	39,815.02	4,905.41	44,720.43 *****
2018	50,163.93	6,372.97	56,536.90 ****
2017	33,746.64	4,699.23	38,445.87 ***
2016	53,321.90	8,779.33	62,101.23 **

^{*****}Includes \$10,462.28 in sewer disconnection costs on 2 accounts plus late fees

Twelve Months Ending March 2020

Month Ending	<u>User Charges</u>	<u>Penalty</u>	<u>Total</u>
3/31/20	\$45,678.23	\$6,089.99	\$51,768.22
2/29/20	43,332.92	5,779.38	49,112.30
1/31/20	40,668.53	5,110.21	45,778.74
12/31/19	42,249.41	5,545.98	47,795.39
11/30/19	44,865.08	6,235.59	51,100.67
10/31/19	44,946.81	5,708.76	50,655.57
9/30/19	49,629.96	6,354.25	55,984.21
8/31/19	46,041.82	5,990.19	52,032.01
7/31/19	44,335.90	5,529.97	49,865.87
6/30/19	44,551.56	5,596.79	50,148.35
5/31/19	41,508.51	5,098.57	46,607.08
4/30/19	37,792.28	4,731.80	42,524.08

Ten (10) of twenty (20) delinquent accounts that were scheduled for pre-enforcement conferences on March 16, 2020 have paid in full. One account from 2012 and another from 2014 are the only two remaining sewer disconnections.

^{****}Includes \$13,020.74 in sewer disconnection costs on 4 accounts plus late fees

^{***}Includes \$17,128.69 in sewer disconnection costs on 6 accounts plus late fees

^{**}Includes \$9,256.59 in sewer disconnection costs on 3 accounts plus late fees

^{*}Includes \$11,270.09 in sewer disconnection costs on 4 accounts plus late fees

To: Amy Underwood, General Manager

From: Marc Majewski, Operations Supervisor

Re: Month of March, 2020 WWTC Operations Report.

Date: April 13, 2020

Attached please find detailed operating data and our monthly report to Illinois EPA for March. We had no excursions over our permit limit in March.

Certain highlights of operational activities included:

- Monthly flow: Average daily flows to the plant were 13.38 MGD. Total precipitation at the WWTC was 3.75". There were 2 excess flow events during the month of March. There were 22 days of discharge over 11 mgd. Please note that the B01 effluent meter stopped working on March 10th and was placed back into service on March 17th. Where B01 flow data was missing during this period, the influent flow data was used.
- Activated sludge: Operating performance improved throughout the month of March. Floc formers are predominating leading to good solids settling.
- Anaerobic Digesters: Pumped a total of 948,059 gallons of primary sludge, 497,790 gallons of WAS, and 212,651 gallons of waste grease for a total of 1,658,500 gallons pumped to digesters. Total Volatile Solids destruction was calculated at 57% for March.
- Digester gas: Total digester gas production was 5,683,750 cubic feet. 119,745 cubic feet of gas was used for anaerobic digestion heat, and 3,669,262 cubic feet was used in the CHP facilities. 1,231,118 cubic feet of flared gas was recorded during the month. The Munters dehumidifier used 663,625 cubic feet of gas.
- Bio-solids: Bio-mechanics have started to slowly ramp up our drying season. We are taking advantage of the occasional good weather to dry, and we have a stockpile of dry biosolids from last season that is currently keeping our pickup station fully stocked. Some scheduled contractor pickups for bio are also taking place.
- Process Control Sampling: Samples collected for monitoring purposes have been temporarily reduced in order to ensure social distancing in the laboratory.
- Miscellaneous Items: On March 12th Nick Preen and Siamak Azarnia attended Fundamentals of Maintenance Practices 2 through the CSWEA operator training program.
- Electricity: Overall net energy from ComEd was: 98,738 KW-Hrs. Electricity Generated by the CHP system was 276,688 KW-Hrs. Monthly net energy (including natural gas usage) was 124 MW-Hrs for the month of March.

C: WDVB, AES, PWC, KJR, RTJ, MJS, WCC, MGP

Downers Grove Sanitary District March 2020

Monthly Operations Report Page 1

	WWTC Rainfall	B01 Parshall Flume Flow Max Mgd	B01 Parshall Flume Flow Min Mgd	B01 Parshall Flume Flow Avg Mgd	A01 Parshall Flume Flow Max Mgd	A01 Parshall Flume Flow Avg Mgd	C01 Int Clar #1 Flow Max Mgd	C01 Int Clar #1 Flow Avg Mgd	Outfall 003 Flow Max Mgd	Outfall 003 Flow Avg Mgd	Total Flow Max Mgd	Total Flow Avg Mgd	002 Outfall Flow Avg Mgd
Date	inches	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD
3/1/2020	0.00	15.17	6.05	9.10	0.00	0.00	0.00	0.00	0.00	0.00	15.17	9.10	0.00
3/2/2020	0.00	14.75	5.68	9.37	0.15	0.00	0.00	0.00	0.00	0.00	14.89	9.37	0.00
3/3/2020	0.00	14.95	5.65	9.08	0.00	0.00	0.00	0.00	0.00	0.00	14.95	9.08	0.00
3/4/2020	0.00	11.81	5.78	8.95	0.00	0.00	0.00	0.00	0.00	0.00	11.81	8.95	0.00
3/5/2020	0.00	12.12	5.61	8.69	0.00	0.00	0.00	0.00	0.00	0.00	12.12	8.69	0.00
3/6/2020	0.00	11.90	5.61	8.75	0.00	0.00	0.00	0.00	0.00	0.00	11.90	8.75	0.00
3/7/2020	0.00	11.93	5.26	8.45	0.00	0.00	0.00	0.00	0.00	0.00	11.93	8.45	0.00
3/8/2020	0.00	12.00	5.30	8.20	0.00	0.00	0.00	0.00	0.00	0.00	12.00	8.20	0.00
3/9/2020	1.30	25.41	5.20	11.95	18.54	0.46	0.00	0.00	0.00	0.00	43.95	12.41	0.56
3/10/2020	0.01	28.99	20.48	19.97	21.59	3.92	0.00	0.00	0.00	0.00	50.58	23.89	5.36
3/11/2020	0.00	23.54	12.07	18.29	0.00	0.00	0.00	0.00	0.00	0.00	23.54	18.29	0.00
3/12/2020	0.02	18.88	12.50	15.45	0.00	0.00	0.00	0.00	0.00	0.00	18.88	15.45	0.00
3/13/2020	0.00	16.35	10.05	13.08	0.00	0.00	0.00	0.00	0.00	0.00	16.35	13.08	0.00
3/14/2020	0.02	15.12	8.82	11.80	0.00	0.00	0.00	0.00	0.00	0.00	15.12	11.80	0.00
3/15/2020	0.00	14.60	8.35	11.35	0.00	0.00	0.00	0.00	0.00	0.00	14.60	11.35	0.00
3/16/2020	0.04	16.10	8.01	11.09	0.00	0.00	0.00	0.00	0.00	0.00	16.10	11.09	0.00
3/17/2020	0.00	15.17	7.74	10.58	0.00	0.00	0.00	0.00	0.00	0.00	15.17	10.58	0.00
3/18/2020	0.47	24.02	7.15	13.52	0.00	0.00	0.00	0.00	0.00	0.00	24.02	13.52	0.00
3/19/2020	0.37	25.77	12.04	16.99	0.00	0.00	0.00	0.00	0.00	0.00	25.77	16.99	0.00
3/20/2020	0.01	25.11	15.17	19.25	0.00	0.00	0.00	0.00	0.00	0.00	25.11	19.25	0.00
3/21/2020	0.00	18.51	12.17	14.51	0.00	0.00	0.00	0.00	0.00	0.00	18.51	14.51	0.00
3/22/2020	0.00	16.95	10.11	13.63	0.00	0.00	0.00	0.00	0.00	0.00	16.95	13.63	0.00
3/23/2020	0.30	20.21	12.18	15.20	0.00	0.00	0.00	0.00	0.00	0.00	20.21	15.20	0.00
3/24/2020	0.01	17.99	11.02	14.02	0.00	0.00	0.00	0.00	0.00	0.00	17.99	14.02	0.00
3/25/2020	0.00	15.94	9.77	12.83	0.00	0.00	0.00	0.00	0.00	0.00	15.94	12.83	0.00
3/26/2020	0.01	15.57	9.21	11.90	0.00	0.00	0.00	0.00	0.00	0.00	15.57	11.90	0.00
3/27/2020	0.04	15.75	8.33	11.09	0.00	0.00	0.00	0.00	0.00	0.00	15.75	11.09	0.00
3/28/2020	1.14	28.50	10.19	22.62	12.28	3.64	0.00	0.00	0.00	0.00	40.79	26.26	5.29
3/29/2020	0.01	27.09	20.47	23.03	2.40	0.07	0.00	0.00	0.00	0.00	29.49	23.10	0.03
3/30/2020	0.00	21.33	15.07	17.67	0.00	0.00	0.00	0.00	0.00	0.00	21.33	17.67	0.00
3/31/2020	0.00	18.72	11.97	14.32	0.00	0.00	0.00	0.00	0.00	0.00	18.72	14.32	0.00
Minimum	0.00	11.81	5.20	8.20	0.00	0.00	0.00	0.00	0.00	0.00	11.81	8.20	0.00
Maximum	1.30	28.99	20.48	23.03	21.59	3.92	0.00	0.00	0.00	0.00	50.58	26.26	5.36
Total	3.75	570.27	302.98	414.69	54.95	8.09	0.00	0.00	0.00	0.00	625.22	422.78	11.25
Average	0.12	18.40	9.77	13.38	1.77	0.26	0.00	0.00	0.00	0.00	20.17	13.64	0.36

Downers Grove Sanitary District March, 2020

Monthly Operations Report Page 2

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	Tertiary Flow MGD	MLSS Avg	Activated Sludge Inventory Lbs MLSS	Activated Sludge SRT Days	15 Minutes Aeration Settling %	30 Minutes Aeration Settling %	60 Minutes Aeration Settling %	Sludge Volume Index	System 1 RAS TSS	System 2 RAS TSS	Dupage River Outfall DO
Date	MGD		LBS	DAYS	mL/L	mL/L	mL/L	mL/g	mg/l	mg/l	mg/l
3/1/2020	9.10		65,937	9.11							
3/2/2020	9.37	2,025	68,264	9.64	26	22	19	107		5,053	8.8
3/3/2020	9.08	2,220	74,845	10.50	34	25	19	110	3,450		8.3
3/4/2020	8.95	1,969	66,373	8.90	31	24	20	122		5,216	8.3
3/5/2020	8.69	2,187	73,736	10.15	31	23	20	106	2,916		
3/6/2020	8.75	2,075	69,956	12.05	32	25	20	119		4,166	
3/7/2020	8.45		69,956	11.96							
3/8/2020	8.20		69,956	12.11							
3/9/2020	11.95	2,247	75,746	13.91	38	28	23	124		4,075	8.8
3/10/2020	19.97	1,474	49,696	8.47	25	19	16	126	5,074		
3/11/2020	18.29	2,222	74,904	7.67	32	25	20	107		6,727	8.6
3/12/2020	15.45	2,278	76,798	7.75	31	24	18	104	5,619		8.7
3/13/2020	13.08	2,016	73,519	9.07	34	26	21	108		5,630	
3/14/2020	11.80		73,519	9.51							
3/15/2020	11.35		73,519	9.23							
3/16/2020	11.09	2,106	71,017	9.47	28	23	20	111		5,251	8.8
3/17/2020	10.58	2,054	69,237	8.98	38	28	21	136	3,019		8.9
3/18/2020	13.52	2,143	78,382	10.92	34	26	21	120		4,554	8.8
3/19/2020	16.99	2,138	72,097	10.89	31	23	20	107	3,780	,	
3/20/2020	19.25	1,966	66,297	7.27	28	23	18	115	-,	6,457	
3/21/2020	14.51	,	66,297	7.63	_	-				-, -	
3/22/2020	13.63		66,297	7.65							
3/23/2020	15.20	2,081	70,168	10.36	38	30	23	146		5,143	8.6
3/24/2020	14.02	2,001	70,168	10.08						3,1.0	0.0
3/25/2020	12.83	2,074	69,934	9.81	46	33	27	159		5,428	8.7
3/26/2020	11.90	_,-,	69,934	9.62						2,12	
3/27/2020	11.09	2,244	75,651	12.50	41	32	25	140		4,592	8.5
3/28/2020	22.62	_,	75,651	12.47		32		, 10		1,502	0.0
3/29/2020	23.03		75,651	12.33							
3/30/2020	17.67	2,188	73,773	11.97	41	30	24	138	5,647		8.6
3/31/2020	14.32	2,100	73,773	12.04	71	30	27	100	0,047		0.0
0/0 1/2020	14.32		10,110	12.04							
Minimum	8.20	1,474	49,695.92	7.27	24.97	18.63	15.88	103.88	2,916	4,075	8.3
Maximum	23.03	2,278	78,382.30	13.91	46.43	33.08	27.02	158.69	5,647	6,727	8.9
Total	414.69		2,201,046.87		640.73	486.48	394.92	2,303.98	29,505	62,292	112.4
	13.38		71,001.65	10.13	33.63	25.74	20.79				
Average	13.30	2,090	7 1,001.03	10.13	33.03	25.74	20.79	121.32	4,215	5,191	8.6

Monthly Operations Report Page 3

	Tertiary Flow MGD	Influent BOD 5	Primary Clarifier BOD 5	Intermediate Clarifier CBOD 5	Tertiary Effluent CBOD 5	Tertiary Effluent CBOD 5 Load	BOD 5 Removal %	Ambient Air Temp Min	Ambient Air Temp Max	Influent Flow Temp
Date	MGD	mg/l	mg/l	mg/l	mg/l		%	Deg F	Deg F	Deg F
3/1/2020	9.10							31	60	
3/2/2020	9.37							33	52	53.4
3/3/2020	9.08	220	82	2.4	1.4	106	97.5	30	50	53.6
3/4/2020	8.95	267	86	2.0	1.0	75	98.3	28	51	54.3
3/5/2020	8.69	280	84	2.5	1.0	72	98.4	28	54	54.1
3/6/2020	8.75							28	54	
3/7/2020	8.45							23	45	
3/8/2020	8.20							39	68	
3/9/2020	11.95							46	56	54.1
3/10/2020	19.97	118	64	5.2	3.2	533	93.7	35	53	52.0
3/11/2020	18.29	159			2.0	305.08	96.5	36	45	51.8
3/12/2020	15.45	168	80	3.0	1.7	219	97.4	32	56	52.5
3/13/2020	13.08							33	51	
3/14/2020	11.80							33	41	
3/15/2020	11.35							30	45	
3/16/2020	11.09							27	40	52.9
3/17/2020	10.58	212	87	2.0	1.6	141	97.8	35	52	52.7
3/18/2020	13.52	225	90	4.3	2.0	225	98.1	38	45	53.8
3/19/2020	16.99	162	54	3.2	2.2	312	96.2	41	64	52.5
3/20/2020	19.25							31	63	
3/21/2020	14.51							25	38	
3/22/2020	13.63							23	36	
3/23/2020	15.20	138			1.0	127	96.5	31	45	
3/24/2020	14.02	156			1.2	140	96.9	29	52	
3/25/2020	12.83	164			1.4	150	96.6	29	57	52.7
3/26/2020	11.90	205			1.8	179	96.6	39	53	
3/27/2020	11.09							37	55	
3/28/2020	22.62	112						41	95	
3/29/2020	23.03							42	65	
3/30/2020	17.67	139			1.2	177	95.0	39	51	53.1
3/31/2020	14.32	184			0.7	84	97.8	37	43	
Minimum	8.20	112	54	2.0	0.70	72	93.7	23	36	51.8
Maximum	23.03	280	90	5.2	3.20	533	98.4	46	95	54.3
Total	414.69	2,909	627	24.6	23.40	2,844	1,453.3	1,030	1,632	743.5
Average	13.38	182	78	3.1	1.56	190	96.9	33	53	53.1

Monthly Operations Report Page 4

	Tertiary Flow MGD	Influent TSS	Primary Clarifier TSS	Intermediate Clarifier TSS	Tertiary Effluent TSS	Tertiary Effluent TSS Load	TSS Removal %	Influent pH	Primary Clarifier pH	Tertiary Effluent pH	Intermediate pH
Date	MGD	mg/l	mg/l	mg/l	mg/l	lbs/day	%	SU	SU	SU	SU
3/1/2020	9.10	182			0.5	38	99.7				
3/2/2020	9.37	264	68	3.0	1.0	78	99.6	7.6	7.6	7.1	7.2
3/3/2020	9.08	204	59	3.2	0.8	61	99.6	7.6	7.7	7.1	7.3
3/4/2020	8.95	280	71	2.8	0.6	45	99.8	7.5	7.6	7.0	7.3
3/5/2020	8.69	300	59	3.4	0.6	43	99.8	7.5	7.6	7.0	7.3
3/6/2020	8.75	256			0.5	36	99.8	7.5	7.6	7.0	7.2
3/7/2020	8.45	268			0.5	35	99.8				
3/8/2020	8.20	206			0.7	48	99.7				
3/9/2020	11.95	296	123	8.0	1.1	110	99.6	7.6	7.4	6.9	7.3
3/10/2020	19.97	108	75	8.6	2.5	416	97.7	7.5	7.2	6.9	7.2
3/11/2020	18.29	158	74	6.4	1.6	244	99.0	7.7	7.4	7.3	7.5
3/12/2020	15.45	132	59	4.6	0.9	116	99.3	7.6	7.6	7.1	7.4
3/13/2020	13.08	156			0.9	98	99.4	7.6	7.7	7.0	7.6
3/14/2020	11.80	184			0.4	39	99.8				
3/15/2020	11.35	152			0.6	57	99.6				
3/16/2020	11.09	172	60	3.8	0.4	37	99.8	7.7	7.7	7.3	7.2
3/17/2020	10.58	204	64	3.2	0.6	53	99.7	7.6	7.5	7.2	7.2
3/18/2020	13.52	208	107	5.4	1.0	113	99.5	7.6	7.6	7.2	7.5
3/19/2020	16.99	140	51	7.0	1.2	170	99.1	7.8	7.8	7.2	7.3
3/20/2020	19.25	112			1.2	193	98.9				
3/21/2020	14.51	116			0.7	85	99.4				
3/22/2020	13.63	128			0.6	68	99.5				
3/23/2020	15.20	148			0.6	76	99.6	7.5	7.4	7.1	7.4
3/24/2020	14.02	150			0.8	94	99.5				
3/25/2020	12.83	148			0.9	96	99.4	7.5	7.6	7.1	7.2
3/26/2020	11.90	186			0.8	79	99.6				
3/27/2020	11.09	160			0.9	83	99.4	7.7	7.8	7.1	7.6
3/28/2020	22.62	148			2.1	396	98.6				
3/29/2020	23.03	108			1.6	307	98.5				
3/30/2020	17.67	100			0.8	118	99.2	7.6	7.8	7.1	7.4
3/31/2020	14.32	132			0.4	48	99.7				
Minimum	8.20	100	51	2.8	0.4	35	97.7	7.5	7.2	6.9	7.2
Maximum	23.03	300	123	8.6	2.5	416	99.8	7.8	7.8	7.3	7.6
Total	414.69	5,506	870	59.4	27.8	3,481	3,081.7	136.7	136.6	127.7	132.1
Average	13.38	178	73	5.0	0.9	112	99.4	7.6	7.6	7.1	7.3

Downers Grove Sanitary District March, 2020

MONTHLY OPERATIONS REPORT PAGE 5

	Tertiary	Influent	Tertiary	Tertiary Effluent	Chlorine	Fecal
	Flow	Ammonia-N	Ammonia-N	Ammonia-N Load	Residual	Coliform
Date	MGD	mg/l	mg/l	lbs/day	mg/l	col/100ml
3/1/2020	9.10	12.72	0.13	9.9		
3/2/2020	9.37	19.24	0.35	27.4		
3/3/2020	9.08	18.00	2.37	179.4		
3/4/2020	8.95	17.08	1.43	106.7		
3/5/2020	8.69	23.12	0.82	59.4		
3/6/2020	8.75					
3/7/2020	8.45					
3/8/2020	8.20	14.52	0.13	8.9		
3/9/2020	11.95	18.48	0.68	67.8	0.02	
3/10/2020	19.97	6.76	2.54	423.1	0.02	
3/11/2020	18.29	10.32	2.50	381.3		
3/12/2020	15.45	8.56	1.96	252.5		
3/13/2020	13.08					
3/14/2020	11.80					
3/15/2020	11.35	10.40	1.45	137.2		
3/16/2020	11.09	12.38	1.53	141.5		
3/17/2020	10.58					
3/18/2020	13.52					
3/19/2020	16.99	9.66	4.63	655.9	0.02	
3/20/2020	19.25				0.02	
3/21/2020	14.51					
3/22/2020	13.63	9.76	0.82	93.2		
3/23/2020	15.20					
3/24/2020	14.02	12.72	2.88	336.8		
3/25/2020	12.83					
3/26/2020	11.90	15.60	4.30	426.7		
3/27/2020	11.09					
3/28/2020	22.62				0.02	
3/29/2020	23.03	7.64	1.74	334.3	0.02	
3/30/2020	17.67				0.02	
3/31/2020	14.32	13.10	2.77	330.7		
Minimum	8.20	6.76	0.13	8.9	0.02	
Maximum	23.03	23.12	4.63	655.9	0.02	
Total	414.69	240.06	33.03	3,972.7	0.14	
Average	13.38	13.34	1.84	220.7	0.02	

SLUDGE DATA										
Primary Sludge	TS	4.00 %	948,059 Gallons							
WAS to Digesters	TS	2.33 %	497,790 Gallons							

Anaerobically Digested Sludge Pumping

Hauled Grease to Digs

Drying Beds TS 3.00 % 166,740 Gallons
BFP TS 1.78 % 813,960 Gallons

9.00 %

212,651 Gallons

Lagoons TS % Gallons
Total 980,700 Gallons

VS Destruction 57.0 %

TS

Biosolids Disposal

Class A Distribution Mar 8 Dry Tons
Class B Hauling Mar Dry Tons
Total Mar 8 Dry Tons
Class A Distribution YTD 8 Dry Tons
Class B Hauling YTD 196 Dry Tons

Total YTD 204 Dry Tons

ENERGY DATA

Total Digester Gas Production	5,683,750 SCF
Gas Volume per Volatile Solids Load	10.0 Cu.Ft./Lb.

Digester Gas Utilization

119,745 SCF	Heat Exchangers
663,625 SCF	Dehumidification
3,669,262 SCF	CHP

Total 4,452,632 SCF 1,231,118 SCF

124 MWH

Natural Gas Consumed

Digester Gas Flared

WWTC	33,667 SCF
MSB	29,767 SCF
Chemical Feed	14,667 SCF
5006 Walnut	15,767 SCF

Kilowatt-hours Generated CHP 276,688 KWH

Net energy from Comed 98,738 KWH

Monthly net energy MISCELLANEOUS

-000			
Grit Removal	Mar	20	Cu. Yds
Grit Removal	YTD	80	Cu. Yds
Anaerobic Supernate		722,778	Gallons
Waste Activated Sludge		166,415	Gals/Day
City Water Consumed		21,642	Gallons

Downers Grove Sanitary District

March, 2020

Monthly Operations Report Page 6

	Tertiary Flow MGD	Influent Phosphorus	Tertiary Effluent Phosphorus	Influent Phosphorus Load	Tertiary Effluent Phosphorus Load	Phosphorus Removal %	Influent Nitrogen	Tertiary Effluent Nitrogen	Influent Nitrogen Load	Tertiary Effluent Nitrogen Load	Nitrogen Removal %	Tertiary Effluent Nitrate Grab
Date	MGD	mg/l	mg/l	lbs/day	lbs/day	%	mg/l	mg/l	lbs/day	lbs/day	%	mg/l
3/1/2020	9.10											
3/2/2020	9.37	6.96	2.79	531.1	218.03	59.9						
3/3/2020	9.08											
3/4/2020	8.95											
3/5/2020	8.69											
3/6/2020	8.75											21.48
3/7/2020	8.45											
3/8/2020	8.20											
3/9/2020	11.95						35.0	19.2	3,637.1	1,913.7	47.4	
3/10/2020	19.97											
3/11/2020	18.29	3.73	1.82	569.0	277.6	51.2						
3/12/2020	15.45											10.36
3/13/2020	13.08											
3/14/2020	11.80											
3/15/2020	11.35											
3/16/2020	11.09											
3/17/2020	10.58											
3/18/2020	13.52	6.31	3.30	716.6	372.1	47.7						
3/19/2020	16.99											11.08
3/20/2020	19.25											
3/21/2020	14.51											
3/22/2020	13.63											
3/23/2020	15.20											
3/24/2020	14.02											
3/25/2020	12.83											
3/26/2020	11.90											
3/27/2020	11.09											
3/28/2020	22.62											
3/29/2020	23.03	2.32	1.38	431.5	265.1	40.5						
3/30/2020	17.67											
3/31/2020	14.32											
Minimum	8.20	2.32	1.38	431.5	218.0	40.5	35.0	19.2	3,637.1	1,913.7	47.4	10.36
Maximum	23.03	6.96	3.30	716.6	372.1	59.9	35.0	19.2	3,637.1	1,913.7	47.4	21.48
Total	414.69	19.32	9.29	2,248.3	1,132.8	199.3	35.0	19.2	3,637.1	1,913.7	47.4	42.92
Average	13.38	4.83	2.32	562.1	283.2	49.8	35.0	19.2	3,637.1	1,913.7	47.4	14.31

Permit

Permit #: IL0028380

DOWNERS GROVE SANITARY DISTRICT Permittee:

Major: Yes 2710 CURTISS STREET PO BOX 1412

Facility Location:

DOWNERS GROVE, IL 60515

5003 WALNUT AVENUE DOWNERS GROVE, IL 60515

DOWNERS GROVE S.D. - WASTEWATER TREATMENT CENTER

001 **Permitted Feature:**

External Outfall

Discharge: 001-0

Permittee Address:

COMBINED DISCHARGE FROM A01, B01, & C01

Report Dates & Status

Monitoring Period: From 03/01/20 to 03/31/20

Underwood

DMR Due Date: 04/25/20 Status: **NetDMR Validated**

Considerations for Form Completion

NUMBER OF DAYS OF DISCHARGE.COMBINED OUTFALLS: A01-MIXING CHAMBER DISCHARGE TO E BR OF DUPAGE RIVER-EFFECTIVE WHEN FLOWS TO TRT PLT ARE GREATER THAN 22 MGD & EXCESS FLOW FAC IS IN OPERATION. 002 BECOMES OPERATIONAL WHEN 001, A01,& B01 EXCEED 30 MGD.

Principal Executive Officer

First Name: Amy Title:

General Manager

Telephone:

Facility:

630-969-0664

No Data Indicator (NODI)

Form NODI:

Last Name:

Parameter	Monitoring Location	n Season #	Param. NODI			Quantit	y or Loading					Quality or Concentra	ition			# of E	k. Frequency of Analysis	Sample Type				
Code Name					Qualifier 1 Va	lue 1 Qualifier 2	2 Value 2	Units	Qualifier	1 Value 1	Qualifie	er 2 Value 2	Qualifier 3	Value 3	Units							
				Sample					=	8.6	=	8.5	=	8.2	19 - mg/L		03/DW - 3 Days Every Week	GR - GRAB				
00300 Oxygen, dissolved [DO]	1 - Effluent Gross	0		Permit Req.						Req Mon MO AV N	ΛN	Req Mon MN WK A	/	Req Mon DAILY MN	l 19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRAB				
				Value NODI																		
				Sample							=	6.3	=	8.0	19 - mg/L		16/30 - 16 Per Month	CP - COMPO				
00310 BOD, 5-day, 20 deg. C	1 - Effluent Gross	0		Permit Req.							<=	30.0 MO AVG	<=	45.0 WKLY AVG	19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRAB				
				Value NODI																		
				Sample		= 6.9		=	7.5	12 - SU		05/DW - 5 Days Every Week	GR - GRAB									
0400 pH	1 - Effluent Gross	0		Permit Req.					>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU	0	DL/DS - Daily When Discharging	GR - GRAB				
				Value NODI																		
				Sample							=	1.4	=	2.1	19 - mg/L		05/DW - 5 Days Every Week	CP - COMPO				
00530 Solids, total suspended 1	1 - Effluent Gross	Effluent Gross 0		Permit Req.							<=	30.0 MO AVG	<=	45.0 WKLY AVG	19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRAB				
				Value NODI																		
				Sample							=	1.88	=	4.63	19 - mg/L		19/30 - 19 Per Month	CP - COMPO				
00610 Nitrogen, ammonia total [as N]	1 - Effluent Gross	ent Gross 0		Permit Req.								Req Mon MO AVG		Req Mon DAILY MX	LY MX 19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRAB				
				Value NODI																		
						Sample									=	3.3	19 - mg/L		06/30 - Six Per Month	CP - COMPO		
00665 Phosphorus, total [as P]	1 - Effluent Gross	0	0	0	0	0		Permit Req.										Req Mon DAILY MX	19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRAB
				Value NODI																		
				Sample							=	0.08			19 - mg/L		07/30 - 7 Times Every Month	GR - GRAB				
50060 Chlorine, total residual	1 - Effluent Gross	0		Permit Req.							<=	0.75 MO AVG			19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRAB				
				Value NODI																		
				Sample									=	2.0	13 - #/100m	L	DL/DS - Daily When Discharging	GR - GRAB				
4055 Coliform, fecal general	1 - Effluent Gross	0		Permit Req.									<=	400.0 DAILY MX	13 - #/100m	L 0	DL/DS - Daily When Discharging	GR - GRAB				
				Value NODI																		
				Sample		=	411.53	80 - Mgal/mo	0								99/99 - Continuous					
2220 Flow, total 1 - Eff	1 - Effluent Gross	ent Gross 0		Permit Req.			Req Mon MO TOTA	L 80 - Mgal/mo	0							0	99/99 - Continuous					
				Value NODI																		

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

31 days of discharge, including 2 days combined discharge with A01 and zero days combined with C01.

Attachments

No attachments.

Report Last Saved By

DOWNERS GROVE SANITARY DISTRICT

User: reeseberry Name: Dorrance Berry E-Mail: rberry@dgsd.org

2020-04-09 10:25 (Time Zone: -05:00) Date/Time:

Report Last Signed By

User: reeseberry
Name: Dorrance Berry
E-Mail: rberry@dgsd.org
Date/Time: 2020-04-09 10:36 (Time Zone: -05:00)

Permit

Permit #: IL0028380 Permittee: DOWNERS GROVE SANITARY DISTRICT

Major: Yes

2710 CURTISS STREET PO BOX 1412 **Permittee Address:**

DOWNERS GROVE, IL 60515

Facility Location: 5003 WALNUT AVENUE DOWNERS GROVE, IL 60515

DOWNERS GROVE S.D. - WASTEWATER TREATMENT CENTER

002 **Permitted Feature:**

External Outfall

Discharge: 002-0

MIXING CHMBR OVERFLOW TO ST. JOSEPH CRK

Report Dates & Status

Monitoring Period: From 03/01/20 to 03/31/20 **DMR Due Date:** 04/25/20

Status: **NetDMR Validated**

Considerations for Form Completion NUMBER OF DAYS OF DISCHARGE:CS

Principal Executive Officer

First Name:

Last Name: Underwood Title: General Manager Telephone:

Facility:

630-969-0664

No Data Indicator (NODI)

Form NODI:

	Parameter Monitoring Location Season # Param. NODI						Qua	ntity or Loading					Quality or Cor	ncentration			# of Ex	x. Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	/alue 1 Qualifi	er 2 Value 2	Units	Qualifier	1 Value 1	Qualifier 2	2 Value 2	Qualifier 3	3 Value 3	Units			
					Sample									=	8.2	19 - mg/L		DL/DS - Daily When Discharging	GR - GRAB
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0		Permit Req										Req Mon DAILY MN	19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRAB
					Value NOD														
					Sample							-	14.0	=	18.0	19 - mg/L		DL/DS - Daily When Discharging	GR - GRAB
00310 E	OD, 5-day, 20 deg. C	1 - Effluent Gross	0		Permit Req							<=	30.0 MO AVG	S <=	45.0 WKLY AVG	19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRAB
					Value NOD														
					Sample					=	7.3			=	7.5	12 - SU		DL/DS - Daily When Discharging	GR - GRAB
00400 p	Н	1 - Effluent Gross	0		Permit Req					>=	6.0 MINIMUM	1		<=	9.0 MAXIMUM	12 - SU	0	DL/DS - Daily When Discharging	GR - GRAB
					Value NOD														
			0		Sample							=	9.5	=	10.4	19 - mg/L		DL/DS - Daily When Discharging	GR - GRAB
00530 5	00530 Solids, total suspended 1 -	1 - Effluent Gross			Permit Req							<=	30.0 MO AVG	G <=	45.0 WKLY AVG	19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRAB
					Value NOD														
					Sample									=	3.02	19 - mg/L		DL/DS - Daily When Discharging	GR - GRAB
00610 N	litrogen, ammonia total [as N]	as N] 1 - Effluent Gross	0		Permit Req										Req Mon DAILY MX	19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRAB
					Value NOD														
					Sample									=	2.11	19 - mg/L		DL/DS - Daily When Discharging	GR - GRAB
00665 F	hosphorus, total [as P]	1 - Effluent Gross	0		Permit Req										Req Mon DAILY MX	19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRAB
					Value NOD														
					Sample							=	0.25			19 - mg/L		DL/DS - Daily When Discharging	GR - GRAB
50060 0	Chlorine, total residual	1 - Effluent Gross	0		Permit Req							<=	0.75 MO AVG	3		19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRAB
					Value NOD														
					Sample									=		13 - #/100ml		DL/DS - Daily When Discharging	GR - GRAB
74055	Coliform, fecal general	1 - Effluent Gross	0		Permit Req									<=	400.0 DAILY MX	13 - #/100ml	L 0	DL/DS - Daily When Discharging	GR - GRAB
					Value NOD														
					Sample		=	11.25	80 - Mgal/mo)								DL/DS - Daily When Discharging	1
82220 F	82220 Flow, total 1 - Eff	1 - Effluent Gross	ss 0		Permit Req			Req Mon MO TOTA	L 80 - Mgal/mo								0	DL/DS - Daily When Discharging	1
					Value NOD														

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

2 days of discharge.

Attachments

No attachments.

Report Last Saved By

DOWNERS GROVE SANITARY DISTRICT

User: reeseberry Name: Dorrance Berry E-Mail: rberry@dgsd.org

Date/Time: 2020-04-09 10:26 (Time Zone: -05:00)

Report Last Signed By

User: reeseberry
Name: Dorrance Berry
E-Mail: rberry@dgsd.org
Date/Time: 2020-04-09 10:36 (Time Zone: -05:00)

Permit

Major:

IL0028380 Permit #:

Yes

External Outfall

Permittee: DOWNERS GROVE SANITARY DISTRICT

2710 CURTISS STREET PO BOX 1412 **Permittee Address:**

Facility Location: **5003 WALNUT AVENUE**

DOWNERS GROVE, IL 60515

DOWNERS GROVE S.D. - WASTEWATER TREATMENT CENTER

Facility:

DOWNERS GROVE, IL 60515

003 Discharge: **Permitted Feature:**

003-0

EXCESS FLOW TO ST. JOSEPH CRK

Report Dates & Status

DMR Due Date: Status: **Monitoring Period:** From 03/01/20 to 03/31/20 04/25/20 **NetDMR Validated**

Considerations for Form Completion NUMBER OF DAYS OF DISCHARGE:CS

Principal Executive Officer

Telephone: First Name: Title: General Manager 630-969-0664

Last Name: Underwood

No Data Indicator (NODI)

Form NODI:

Parameter	Monitoring Locatio	n Season #	Param. NODI			Quantity	or Loading				(Quality or Conce	ntration			# of Ex.	Frequency of Analysis	Sample Type
Code Name					Qualifier 1 Value	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
				Sample														
00300 Oxygen, dissolved [DO]	1 - Effluent Gross	0		Permit Req.										Req Mon DAILY MN	19 - mg/L		DL/DS - Daily When Discharging	GR - GRAB
				Value NODI										C - No Discharge				
				Sample														
00310 BOD, 5-day, 20 deg. C	1 - Effluent Gross	0		Permit Req.							<=	30.0 MO AVG	<=	45.0 WKLY AVG	19 - mg/L		DL/DS - Daily When Discharging	GR - GRAB
				Value NODI								C - No Discharge	9	C - No Discharge				
				Sample														
00400 pH	1 - Effluent Gross	0		Permit Req.					>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU		DL/DS - Daily When Discharging	GR - GRAB
				Value NODI						C - No Discharge)			C - No Discharge				
				Sample														
00530 Solids, total suspended	1 - Effluent Gross	0		Permit Req.							<=	30.0 MO AVG	<=	45.0 WKLY AVG	19 - mg/L		DL/DS - Daily When Discharging	GR - GRAB
				Value NODI								C - No Discharge	9	C - No Discharge				
				Sample														
00610 Nitrogen, ammonia total [as N]	1 - Effluent Gross	0		Permit Req.										Req Mon DAILY MX	19 - mg/L		DL/DS - Daily When Discharging	GR - GRAB
				Value NODI										C - No Discharge				
				Sample														
00665 Phosphorus, total [as P]	1 - Effluent Gross	0		Permit Req.										Req Mon DAILY MX	19 - mg/L		DL/DS - Daily When Discharging	GR - GRAB
				Value NODI										C - No Discharge				
				Sample														
50060 Chlorine, total residual	1 - Effluent Gross	0		Permit Req.							<=	0.75 MO AVG			19 - mg/L		DL/DS - Daily When Discharging	GR - GRAB
				Value NODI								C - No Discharge)					
				Sample														
74055 Coliform, fecal general	1 - Effluent Gross	0		Permit Req.									<=	400.0 DAILY MX	13 - #/100m	L	DL/DS - Daily When Discharging	GR - GRAB
				Value NODI										C - No Discharge				
				Sample														
82220 Flow, total	1 - Effluent Gross	0		Permit Req.		F	Req Mon MO TOTAL	80 - Mgal/mo									DL/DS - Daily When Discharging	
				Value NODI			C - No Discharge											

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

DOWNERS GROVE SANITARY DISTRICT

User: reeseberry Name: Dorrance Berry E-Mail: rberry@dgsd.org

Date/Time: 2020-04-09 10:27 (Time Zone: -05:00)

Report Last Signed By

 User:
 reeseberry

 Name:
 Dorrance
 Berry

 E-Mail:
 rberry@dgsd.org

 Date/Time:
 2020-04-09 10:36 (Time Zone: -05:00)

Permit #:

Major:

IL0028380

Permittee: DOWNERS GROVE SANITARY DISTRICT

2710 CURTISS STREET PO BOX 1412

DOWNERS GROVE, IL 60515

Facility: DOWNERS GROVE S.D. - WASTEWATER TREATMENT CENTER

Facility Location: 5003 WALNUT AVENUE

DOWNERS GROVE, IL 60515

Permitted Feature:

A01

Yes

External Outfall

Discharge: A01-0

Permittee Address:

EXCESS FLOW FROM EXCESS FLOW CLARIFIERS

Report Dates & Status

Monitoring Period: From 03/01/20 to 03/31/20

Underwood

DMR Due Date: 04/25/20

Status: NetDMR Validated

Considerations for Form Completion
NUMBER OF DAYS OF DISCHARGE:CS

Principal Executive Officer

First Name: Amy

Title: General Manager

Telephone: 630-969-0664

No Data Indicator (NODI)

Form NODI:

Last Name:

Parame	ter	Monitoring Location	Season #	Param. NODI				Quantity or	Loading				Qu	ality or Concentrat	ion		# of Ex	. Frequency of Analysis	Sample Ty
Code N	ame					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2 Qualifier 3	Value 3	Units			
					Sample									=	59.2	19 - mg/L		DL/DS - Daily When Discharging	GR - GRAF
00310 BOD, 5-day, 2	deg. C	1 - Effluent Gross	0		Permit Req.										Req Mon DAILY MX	19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRAF
					Value NODI														
					Sample									=	41.2	19 - mg/L		DL/DS - Daily When Discharging	GR - GRA
00530 Solids, total su	spended	1 - Effluent Gross	0		Permit Req.										Req Mon DAILY MX	19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRA
					Value NODI														
					Sample									=	6.4	19 - mg/L		DL/DS - Daily When Discharging	GR - GRA
00610 Nitrogen, amm	onia total [as N]	1 - Effluent Gross	0		Permit Req.										Req Mon DAILY MX	19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRA
					Value NODI														
					Sample									=	2.03	19 - mg/L		DL/DS - Daily When Discharging	GR - GRA
00665 Phosphorus, to	otal [as P]	1 - Effluent Gross	0		Permit Req.										Req Mon DAILY MX	19 - mg/L	0	DL/DS - Daily When Discharging	GR - GRAE
					Value NODI														
					Sample			= 8.09	9	80 - Mgal/mo								DL/DS - Daily When Discharging	CN - CONT
82220 Flow, total		1 - Effluent Gross	0		Permit Req.			Red	Mon MO TOTAL	80 - Mgal/mo							0	DL/DS - Daily When Discharging	CN - CONT
					Value NODI														

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

2 days of discharge. Event 1: 3/9/20-3/10/20, discharging for 14.1 hours. 1.31 inches of rain over 18 hours. B01 flow rate at A01 start time: 16,646 gpm. Event 2: 3/28/20-3/29/20, discharging for 15.3 hours. 1.15 inches of rain over 13 hours. B01 flow rate at A01 start time: 16,247 gpm.

Attachments

No attachments.

Report Last Saved By

DOWNERS GROVE SANITARY DISTRICT

User: reeseberry
Name: Dorrance Berry
E-Mail: rberry@dgsd.org

Date/Time: 2020-04-09 10:30 (Time Zone: -05:00)

Report Last Signed By

User: reeseberry
Name: Dorrance Berry
E-Mail: rberry@dgsd.org

Date/Time: 2020-04-09 10:36 (Time Zone: -05:00)

Permit Permit #:

Major:

IL0028380

Yes

Permittee:

DOWNERS GROVE SANITARY DISTRICT

Permittee Address:

2710 CURTISS STREET PO BOX 1412

DOWNERS GROVE, IL 60515

Facility Location:

Facility:

DOWNERS GROVE S.D. - WASTEWATER TREATMENT CENTER

5003 WALNUT AVENUE DOWNERS GROVE, IL 60515

Permitted Feature:

B01 External Outfall Discharge: B01-0

INTERNAL MIXING CHMBR - E. BR. DUPAGE RVR

Report Dates & Status

Monitoring Period: From 03/01/20 to 03/31/20 **DMR Due Date:** 04/25/20 Status: **NetDMR Validated**

Considerations for Form Completion

DMF LOAD LIMITS DISPLAYED.

Principal Executive Officer

First Name:

Last Name: Underwood Title: General Manager Telephone:

630-969-0664

No Data Indicator (NODI)

Form NODI:

	Parameter	Monitoring Location	n Seas	son # Param. No	DDI		Qı	antity or Lo	ading				G	Quality or Conc			7	of Ex.	. Frequency of Analysis	Sample Typ
Code	Name					Qualifier 1	Value 1	Qualifier 2	2 Value 2	Units	Qualifier 1	1 Value 1	Qualifier 2	2 Value 2	Qualifier 3	3 Value 3	Units			
					Sample										=	53.8	15 - deg F		01/30 - Monthly	GR - GRAB
00011	Temperature, water deg. fahrenheit	1 - Effluent Gross	0		Permit Req	j.										Req Mon MO MAX	15 - deg F ()	01/30 - Monthly	GR - GRAB
					Value NOD	I														
					Sample								=	8.5	=	8.3	19 - mg/L		03/DW - 3 Days Every Week	GR - GRAB
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0		Permit Req								>=	6.0 MN WK A	/ >=	5.0 DAILY MN	19 - mg/L ()	02/DA - 2 Days Every Week	GR - GRAB
					Value NOD	I														
					Sample						=	6.9			=	7.3	12 - SU		05/DW - 5 Days Every Week	GR - GRAB
00400	рН	1 - Effluent Gross	0		Permit Req						>=	6.0 MINIMUM	1		<=	9.0 MAXIMUM	12 - SU ()	02/DA - 2 Days Every Week	GR - GRAB
					Value NOD	I														
					Sample										=	180.0	19 - mg/L		01/30 - Monthly	CP - COMPC
00410	Alkalinity, total [as CaCO3]	1 - Effluent Gross	0		Permit Req											Req Mon DAILY MX	19 - mg/L ()	01/30 - Monthly	CP - COMPC
					Value NOD	I														
					Sample	=	112.28	=	416.41	26 - lb/d			=	0.9	=	2.5	19 - mg/L		05/DW - 5 Days Every Week	CP - COMPO
00530	Solids, total suspended	1 - Effluent Gross	0		Permit Req	. <=	2202.0 MO AVG	<=	4404.0 DAILY MX	26 - lb/d			<=	12.0 MO AVG	<=	24.0 DAILY MX	19 - mg/L ()	02/DA - 2 Days Every Week	CP - COMPO
					Value NOD	I														
					Sample										=	19.2	19 - mg/L		01/30 - Monthly	CP - COMPC
00600	Nitrogen, total [as N]	1 - Effluent Gross	0		Permit Req											Req Mon DAILY MX	19 - mg/L ()	01/30 - Monthly	CP - COMPO
					Value NOD	I														
					Sample	=	220.7	=	655.9	26 - lb/d			=	1.84	=	4.63	19 - mg/L		05/DW - 5 Days Every Week	CP - COMPO
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	2		Permit Req	. <=	734.0 MO AVG	<=	1468.0 DAILY MX	26 - lb/d			<=	4.0 MO AVG	<=	8.0 DAILY MX	19 - mg/L ()	02/DA - 2 Days Every Week	CP - COMPO
					Value NOD	I														
					Sample										-	2.0	19 - mg/L		01/30 - Monthly	CP - COMPC
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0		Permit Req											Req Mon DAILY MX	19 - mg/L ()	01/30 - Monthly	CP - COMPC
					Value NOD	I														
					Sample										=	17.2	19 - mg/L		01/30 - Monthly	CA - CALCTI
00630	Nitrite + Nitrate total [as N]	1 - Effluent Gross	0		Permit Req											Req Mon DAILY MX	19 - mg/L ()	01/30 - Monthly	CA - CALCTE
					Value NOD	I														
					Sample										-	3.3	19 - mg/L		01/30 - Monthly	CP - COMPO
00665	Phosphorus, total [as P]	1 - Effluent Gross	0		Permit Req											Req Mon DAILY MX	19 - mg/L ()	01/30 - Monthly	CP - COMPC
					Value NOD	I														
					Sample										=	3.28	19 - mg/L		01/30 - Monthly	CP - COMPC
00666	Phosphorus, dissolved	1 - Effluent Gross	0		Permit Req	j.										Req Mon DAILY MX	19 - mg/L ()	01/30 - Monthly	CP - COMPC
					Value NOD	I														
					Sample										-	276.0	19 - mg/L		01/30 - Monthly	GR - GRAB
00940	Chloride [as Cl]	1 - Effluent Gross	0		Permit Req											Req Mon DAILY MX	19 - mg/L ()	01/30 - Monthly	GR - GRAB
					Value NOD	I														
					Sample	=	13.38	=	23.03	03 - MGD)								99/99 - Continuous	
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0		Permit Req		Req Mon MO AV	G	Req Mon DAILY MX	03 - MGD)						()	99/99 - Continuous	
					Value NOD	I														
					Sample										-	0.02	19 - mg/L		CL/OC - Chlorination/Occurances	GR - GRAB
50060	Chlorine, total residual	1 - Effluent Gross	1		Permit Req	j.									<=	0.05 DAILY MX	19 - mg/L ()	CL/OC - Chlorination/Occurances	GR - GRAB
					Value NOD	I														
					Sample	=	189.62	=	533.0	26 - lb/d			=	1.6	=	3.2	19 - mg/L		03/DW - 3 Days Every Week	CP - COMPO
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0		Permit Req	. <=	1835.0 MO AVG	<=	3670.0 DAILY MX	26 - lb/d			<=	10.0 MO AVG	<=		19 - mg/L (CP - COMPO
	· · · ·				Value NOD	1														

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors No errors. Comments Attachments No attachments. Report Last Saved By DOWNERS GROVE SANITARY DISTRICT User: reeseberry Name: Dorrance Berry rberry@dgsd.org E-Mail: Date/Time: 2020-04-09 10:36 (Time Zone: -05:00) Report Last Signed By User: reeseberry Name: Dorrance Berry

rberry@dgsd.org

2020-04-09 10:36 (Time Zone: -05:00)

E-Mail:

Date/Time:

Peri	nit											_										
Perr	mit #:	IL0028	3380		Permitte	ee:	DO	WNER	RS GROV	E SANITARY D	ISTRICT	Fa	cility:		D	OWNERS	GROVE S.D V	WASTEV	VATER	TREATMENT CENTER		
Majo	or:	Yes			Permitte	ee Address				REET PO BOX E, IL 60515	1412	Fa	cility l	Location:		5003 WALNUT AVENUE DOWNERS GROVE, IL 60515						
Perr	mitted Feature:	C01 Extern	al Outfall		Dischar	ge:	C01 EXC		FLOW FF	ROM CLARIFIEF	R #1											
Rep	ort Dates & Status																					
Mon	itoring Period:	From	03/01/20 to 03/3	31/20	DMR Du	e Date:	04/2	25/20				Sta	atus:		N	etDMR V	alidated					
Con	siderations for For	m Com	pletion																			
	MBER OF DAYS OF		ARGE:CS																			
	cipal Executive Off																					
	t Name:	Amy			Title:		Ger	neral M	/lanager			Те	lepho	ne:	6	30-969-06	664					
	Name:	Under	wood																			
	Data Indicator (NOD) <i>(</i>)																				
Forr	n NODI: Parameter		Monitoring Location	Seesen #	Borom NODI				Ougntitu	, or Loading				0	uality or	Concentrat	ion		# of Ex.	Frequency of Analysis	Sample Typ	
Code		IV	ionitoring Location	i Season #	Parailli. NODI		Qualifier 1 V	alue 1 (or Loading Value 2	Units	Qualifier 1	Value 1			Concentrat Qualifier 3		Units	# OI EX.	Frequency of Analysis	Sample Typ	
00040	DOD 5 1 00 1 0		F/// O			Sample											D 14 DAII V 14V	10 (1	-	DI /DO D : I W/ D: I	00.0040	
00310	BOD, 5-day, 20 deg. C	1	- Effluent Gross	0		Permit Req. Value NODI											Req Mon DAILY MX C - No Discharge	19 - mg/L		DL/DS - Daily When Discharging	GR - GRAB	
						Sample																
00530	Solids, total suspended	1	- Effluent Gross	0		Permit Req. Value NODI											Req Mon DAILY MX C - No Discharge	19 - mg/L		DL/DS - Daily When Discharging	GR - GRAB	
						Sample																
00610	Nitrogen, ammonia total	[as N] 1	- Effluent Gross	0		Permit Req. Value NODI											Req Mon DAILY MX	19 - mg/L		DL/DS - Daily When Discharging	GR - GRAB	
						Sample											C - No Discharge					
00665	Phosphorus, total [as P]	1	- Effluent Gross	0		Permit Req.											Req Mon DAILY MX	19 - mg/L		DL/DS - Daily When Discharging	GR - GRAB	
						Value NODI Sample											C - No Discharge					
82220	Flow, total	1	- Effluent Gross	0		Permit Req.				Req Mon MO TOTA	L 80 - Mgal/mo									DL/DS - Daily When Discharging	CN - CONTI	
0/-	note at an Make					Value NODI				C - No Discharge												
	mission Note	ant nant	rain any valuas f	or the Con	mala nar Eff	luont Trodin	aa than nar	20 of th	ha fallawi	na fioldo will bo	aubmittad far	that raw	Lloito	Number	of Evolu	roiono Fra	according to Analys	oio and (Comple	Tuno		
	carameter row does	not cont	ain any values i	or the Sar	Tiple flot Ell	iueni Itauli	ng, men nor	ie oi ti	ne rollowi	ng neids will be	submitted for	that row.	Units,	number	JI EXCUI	isions, Fie	equency of Arialys	sis, and s	sample	туре.		
	errors.																					
	nments																					
Oon	ments																					
Atta	chments																					
	achments.																					
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Nam					orrance Be	-																
E-Ma					erry@dgsd.o		o 7000: 05	.00)														
Date	e/Time:			20	20-04-09 1	u.so (Tim	e Zone: -05	.00)														

Permit DOWNERS GROVE SANITARY DISTRICT Facility: DOWNERS GROVE S.D. - WASTEWATER TREATMENT CENTER Permit #: IL0028380 Permittee: **Facility Location:** Major: Yes **Permittee Address:** 2710 CURTISS STREET PO BOX 1412 **5003 WALNUT AVENUE** DOWNERS GROVE, IL 60515 DOWNERS GROVE, IL 60515 INF Discharge: INF-L **Permitted Feature:** INFLUENT MONITORING Influent Structure Report Dates & Status **Monitoring Period:** From 03/01/20 to 03/31/20 **DMR Due Date:** 04/25/20 Status: NetDMR Validated **Considerations for Form Completion Principal Executive Officer** Amy Title: General Manager Telephone: **First Name:** 630-969-0664 Underwood **Last Name:** No Data Indicator (NODI) Form NODI: Monitoring Location Season # Param. NODI **Quantity or Loading Quality or Concentration** # of Ex. Frequency of Analysis Sample Type Qualifier 1 Value 1 Qualifier 2 Value 2 Units Qualifier 1 Value 1 Qualifier 2 Qualifier 3 Units Value 2 Value 3 Sample 19 - mg/L 09/99 - See Permit CP - COMPOS 00310 BOD, 5-day, 20 deg. C G - Raw Sewage Influent 0 CP - COMPOS Permit Rec Reg Mon MO AVG 19 - mg/L 0 09/99 - See Permit Value NODI Sample 178.0 19 - mg/L 09/99 - See Permit CP - COMPOS 00530 Solids, total suspended G - Raw Sewage Influent 0 Permit Reg. Req Mon MO AVG 19 - mg/L 0 09/99 - See Permit CP - COMPOS Value NODI 01/30 - Monthly CP - COMPOS Sample 19 - mg/L 00600 Nitrogen, total [as N] G - Raw Sewage Influent 0 Permit Req. Req Mon DAILY MX 19 - mg/L 0 01/30 - Monthly CP - COMPOS Value NODI 04/30 - Four Per Month CP - COMPOS Sample 19 - mg/L CP - COMPOS 00665 Phosphorus, total [as P] Req Mon DAILY MX 19 - mg/L 0 01/30 - Monthly G - Raw Sewage Influent 0 Permit Req. Value NODI 13.28 22.94 03 - MGD 99/99 - Continuous Sample Reg Mon DAILY MX 03 - MGD 50050 Flow, in conduit or thru treatment plant G - Raw Sewage Influent 0 Reg Mon MO AVG 99/99 - Continuous Permit Rea. Value NODI **Submission Note** If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type. **Edit Check Errors** No errors. Comments **Attachments** No attachments. Report Last Saved By **DOWNERS GROVE SANITARY DISTRICT** User: reeseberry Name: Dorrance Berry E-Mail: rberry@dgsd.org Date/Time: 2020-04-09 10:34 (Time Zone: -05:00) Report Last Signed By User: reeseberry Name: Dorrance Berry E-Mail: rberry@dgsd.org Date/Time: 2020-04-09 10:36 (Time Zone: -05:00)

DOWNERS GROVE SANITARY DISTRICT

MEMO

TO: Amy Underwood, General Manager

FROM: Jeff Barta, Maintenance Supervisor

DATE: April 15, 2020

SUBJECT: March 2020 Maintenance Report

Attached is a work order summary detailing equipment repair and preventive maintenance activities conducted by the maintenance/electrical department and operations during March 2020.

Special projects in March included:

Primary Clarifier 5 – Cross Collector Repairs

The Operations department brought to my attention that the cross collector (sludge auger screw) in the bottom of the primary clarifier was no longer turning. After the tank was drained and cleaned we discovered that the right angle gear box was worn out and no longer operational. In addition to the issue with the gear box, we also found that the drive hub that connects the gear box to the large screw was worn out as well and needed to be replaced.

We ordered two (2) right angle gear boxes from Motion Industries. One to replace the right angle gear box on this tank, and a spare to keep in inventory to expedite future repairs on primary tanks 5&6 since they both use the same gear box. A new drive hub was also fabricated and machined for us by Raptor Tech Inc. a local machine shop in Downers Grove.

The new gear box and drive hub have been installed by District maintenance staff and the tank has been put back in service.

Bar Screen & Grit Buildings – Overhead Door Replacement & Repairs

The overhead door and the door track system in the bar screen building was severely deteriorated and required replacement. In addition to the Bar Screen building door replacement, repairs were also needed on the bottom most sections on both of the roll-up overhead doors in the Grit building that were also rusted out and deteriorated.

Dealing with the corrosive environment in the Bar Screen building from the constant moisture and the hydrogen sulfide (H2S) fumes from the raw sewage that flows through the building will always be a challenge. The typical lifecycle we have experienced on the overhead door and track system has only been around 8 years. Typically, the items that fail are the door hinges, rollers and tracking. In an attempt to increase the lifecycle on the replacement door, we requested all proposals to include these items in stainless steel with nylon track rollers.

We received proposals from three (3) door repair/replacement contractors for this project. These proposals included the replacement overhead door system with the stainless steel upgrades in the Bar Screen building, and the repairs on the two (2) Grit building roll-up doors. Allied Doors had the lowest proposal in the amount of \$11,153. The other two (2) proposals were from Proline Doors at \$16,944 and Anagnos Doors at \$25,665.

Allied Doors has completed the installation of the new overhead door and track system with the stainless steel upgrades in the Bar Screen building and the repairs on both of the Grit building doors.

WWTC & Lift Station – Generator Repairs

As mentioned in my January maintenance report, there were a few additional repair recommendations that were brought to my attention by Altorfer Power Systems during our annual generator preventive maintenance. After reviewing their proposal and negotiating a lower total cost on the repairs by having them combine some of the repair projects, I authorized Altorfer to proceed with the repairs. All of the additional repairs have now been completed on the three (3) WWTC emergency generators, the Hobson and the Liberty Park lift station stationary generators and our Portable 350 kW generator.

Excess Flow Clarifiers – Scum Drain Line Repairs

Over the past few years, during excess flow events, we have been experiencing draining problems on the 8" scum drain line on the excess flow clarifiers. This drain line becomes clogged with the grease and floating debris that is skimmed off the top of the water in the clarifiers. This debris is supposed to flow back to the head of the plant to be screened and removed.

During a recent excess flow event the line became clogged once again. Normally we have been able to clear the blockage using our jet truck, but this time we were no longer able to clear the blockage. After repeated attempts, we got the jetter nozzle stuck in the line. The System crew used their sewer camera to visually inspect the line and see why the jetter nozzle was stuck. What was discovered was that there was too many bends and elbows in this section of the drain piping and the nozzle was wedged in one of the 90 degree bends.

Uno Construction excavated to expose the drain line to remove the wedged nozzle. After the line was exposed, it was very obvious that we needed to modify the existing underground drain piping to improve the flow. The piping was opened to remove the jetter nozzle and clear the blockage. A couple of the tight 90 degree bends were also removed and were replaced with a more appropriate pair of 45 degree bends, a new sewer clean-out was installed to allow better access for future cleaning if the line becomes clogged again.

This repair is complete with the exception of site restoration which will be completed after the excavation site settles and weather permits for final grading and seeding.

Work Order Summary

Work Order Completion Dates from 3/2/2020 to 3/27/2020

Work Assignment	Completion Date	Equipment	NOTATIONS
Exercising of bar screen sluice gates 1 and 2	02-Mar-20	Bar Screen 1	
		Bar Screen 2	
Turn on and run Chlorine Contact Tank sweep arm		Chlorine Contact Tank	
500 Hour Oil Change on Pearth 4		Digester 4 Mixing System	
Change Filters On Grit Blowers 1,2,3.		Grit Blower 1	
		Grit Blower 2	
3 Month Grease- Secondaries 1 & 2		Secondary Clarifier 1	
		Secondary Clarifier 2	
Exercise both 24" primary influent ratio valves		Tunnel From PS to Grit	
		Tunnel/Chan Primary Clarifiers	
Repair old lighting and install new lighting TV rig	03-Mar-20) 2003 Ford Truck E450/TV Unit	Repair side box strobes, bad grounding. Repair generator cord end plugs and replace generator side box panel. Install 4 new strobes, 2 front, 2 rear. Wire strobes and switch. Install 2 rear LED flood and wires.
Seasonal Inspection and repair to Auger #3		2004 AUGER-DAWG G- 30 4D088	Rebuild bearings, replaced defective motor with new and replaced wear plate on Blue Auger #3.
EXERCISING OF EXCESS RAW SEWAGE VALVING		Excess Flow Pump 06	
		Excess Flow Pump 07	
		Excess Flow Pump 08	
		Excess Flow Pump 09	
Inspect and repair of Auger #2- Green	04-Mar-20	2004 AUGER-DAWG G- 30 4D087	Replaced defective motor, rebuilt support bearings assembly, replaced hose for hydraulic line and bent back auger end piece.
Replace the UPS batteries on the magnetic bearing controller	05-Mar-20	Aeration Blower ABS	Replace the UPS batteries on the magnetic bearing controller.
Replace the actuator that is worn out on sludge valve #1.		Primary Clarifier 1	Remove the old Auma actuator and install, configure and set limits on a new Rotork actuator. Re-order another actuator for stock from LAI.
EXCESS 003- Exercise 30" and 24" DEZURIK Valves	06-Mar-20	Excess Flow 003 Valves	
Remove trees & brush on the south side of the drying beds.		Gravity Sludge Drying Bed 13	Under Cutters Tree Service cleared all trees and brush on the south side of the sludge drying beds. Also ground the stumps of the larger trees.
		Gravity Sludge Drying Bed 14	
		Gravity Sludge Drying Bed 15	
		Gravity Sludge Drying Bed 16	
Monthly Cross Collector Check		Primary Clarifier 3	
		Primary Clarifier 4	
		Primary Clarifier 5	

Wednesday, April 15, 2020 Page 1 of 3

Work Assignment	Completion Date	Equipment	NOTATIONS
		Primary Clarifier 6	
		Primary Clarifier 7	
		Primary Clarifier 8	
		Primary Clarifier 9	
Exercise Ratio Valve #2		Tunnel - System 2 RAS	
PEARTH 4 SIX MONTH BOSTON GEAR OIL CHANGE	07-Mar-20	Digester 4 Mixing System	
Replace faulty battery tender with new.	09-Mar-20	2011 Freightliner M2	Charged batteries and tightened terminal nuts. Replaced faulty battery tender with new.
By-Weekly Fluid and Misc. Check of Generators		Emergency Generator 1	
		Emergency Generator 2	
		Emergency Generator 3	
Safety lane Vehicle 304- 2009 FORD Bio-Truck	11-Mar-20	2009 Ford F350	
Change Pre-Filters Blowers 1 - 4.		Blower Bag Room	
Exercise Of EBARA and Excess Pumps		Excess Flow Pump 06	
		Excess Flow Pump 07	
		Excess Flow Pump 08	
		Excess Flow Pump 09	
		Excess Flow Pump 10	
		Excess Flow Pump 11	
		Excess Flow Pump 12	
Run And Inspect Generators With The Load Of The Plant	12-Mar-20	Emergency Generator 1	
		Emergency Generator 2	
		Emergency Generator 3	
Vehicle 354, 6 Month Oil Change (6 yard dump)	13-Mar-20	2014 Freightliner M2106 6 yd d	
Top off gear reducer oil and install vented fill plugs		Excess Flow Clarifier 2	Topped off oil and installed vented plug.
		Excess Flow Clarifier 3	
		Excess Flow Clarifier 4	
Primary 7-9 shear pin and hub maintenance		Primary Clarifier 7	Remove shear pin and ensure that hub spins freely. Fully lubricate the hub.
		Primary Clarifier 8	
		Primary Clarifier 9	
3 Month Oil Change Blower #4	14-Mar-20	Aeration Blower 04	
Greasing of Landia mixer grease fitting on actuator and threaded stem		Digester 1 Mixing Pump	
3 Month check and repair of Belt Press Ventilation Fans	16-Mar-20	Belt Filter Press Building	3 month check and repair of all ventilation fans at Belt Filter Press building.
Replace plant effluent flow meter on the 36" parshall flume that failed.		Flow Meter - Tertiary	Install and configure a new STI model #345 flow meter on the 36" parshall flume. This was a new meter from stock.
Replace Air Filter On Operations Center Furnace		Operations Center	Replace air bear filter 20"x25"x5"
Re-stock upper and lower flight shoes.		Primary Clarifier 1	Purchase 300 each, upper and lower flight shoes from Garland Manufacturing.
Wednesday April 15, 2020			Door 2 of 2

Wednesday, April 15, 2020 Page 2 of 3

Work Assignment	Completion Date	Equipment	NOTATIONS
		Primary Clarifier 2	
		Primary Clarifier 3	
		Primary Clarifier 4	
		Primary Clarifier 5	
		Primary Clarifier 6	
		Primary Clarifier 7	
		Primary Clarifier 8	
		Primary Clarifier 9	
Replace UPS batteries on the magnetic bearing controller.	17-Mar-20	Aeration Blower ABS #2	Replace the UPS batteries on the magnetic bearing controller.
Replace thermostat and the upper & lower heater hoses.		Liberty Park Stationary Genera	Altorfer Power Systems replaced drain coolant, replaced the thermostat, upper & lower radiator hoses. Re-fill coolant, pressure test and run engine. No issues or leaks.
Calibrate Influent, Effluent, & Excess Flow Transducers	18-Mar-20) Flow Meter - Excess	
		Flow Meter - Influent	
		Flow Meter - Tertiary	
Repair deteriorated bottom roll up overhead door slats on 2 doors.	20-Mar-20) Grit Building	Repair deteriorated bottom roll up overhead doors on both the north and west facing doors. Received multiple quotes from different vendors and accepted Allied's proposal.
1313/20949 hours. Change oil and filters with new. Oil sample to lab.	23-Mar-20) CHP Engine Genset #2	Changed oil and filters. Sent sample out for analysis.
11,313/20,949 hours. Order and pick up replacement parts for maintenance	26-Mar-20)	Ordered and picked up parts.
Due for valve adjustment and set injector timing.		Emergency Generator 1	Altorfer Power Systems removed the valve covers, adjusted valves, and reset injector timing.
		Emergency Generator 3	
compressor due for quarterly PM.		WWTC ODS Pump Air Compressor	Delta Industries performed the quarterly P/M.
Replace heater hoses, fuel tank sight glass, and battery cables.	27-Mar-20	Hobson Stationary Generator	Altorfer Power Systems replaced the heater hoses, fuel tank sight glass, and battery cables that were worn out.
Replace thermostat and repair oil pressure gauge.		Portable Generator 350	Altorfer Power Systems drained coolant system, replaced thermostat and housing gaskets, refilled coolant system and repaired oil pressure gauge.

Wednesday, April 15, 2020 Page 3 of 3

DOWNERS GROVE SANITARY DISTRICT M E M O

DATE: April 1, 2020

TO: Amy Underwood General Manager

FROM: Robert Swirsky

Sewer System Maintenance Supervisor

RE: Monthly Report – March, 2020

1	HH IE Line Meddings	Comment	Voorto Doto
1.	JULIE Line Markings: Received	Current 773	Year to Date 1736
	In District	773	1616
		· -	
	Marked	172	497
	Man Hours	66	223
2.	Building Service:	Current	Year to Date
	a. BSSRAP TV Inspections	09	39
	b. Emergency BSSRAP Repairs	08	19
	c. Total BSSRAP Repairs	11	29
	d. I&I inspections	00	01
	e. I&I C.O. installation	01	02
	f. Replace broken cleanout caps	00	00
	g. OHSP TV Inspections	00	00
	h. Post Rodding TV	08	17
3.	Sewer backups:	Current	Year to Date
	a. Public sewer	0	2
	b. Private sewer	22	37
	c. Surcharged main	0	0
	d. Pump station	<u>0</u>	<u>0</u>
	Total	$2\overline{2}$	39
		Current	Year to Date
4.	Sewer Cleaning (DGSD personnel):	0	0 Ft.
	a. Sewer Cleaning (outside contractors):	0	0 Ft.
5.	Main Sewer Televising (DGSD personnel)	: 0	901 Ft.
	a. Sewer Televising (outside contractors):	0	0 Ft.
6.	LETS TV	0	1
7.	Manhole inspections	0	153

- Sewer and manhole repairs and replacements by Uno Construction: Emergency repair of clogged pipe at the WWTC 8.
- Miscellaneous: (sewer system personnel) 9.
 - a.
 - Clear clogged pipes at the WWTC. Televise alley sewers for Uno Construction. b.

CC: WDVB, AES, PWC, RTJ, KJR, MS, AU, TTC, WCC, MCW

DOWNERS GROVE SANITARY DISTRICT M E M O

DATE: April 8, 2020

TO: Amy R. Underwood

General Manager

FROM: Ted Cherwak

Sewer Construction Supervisor Sewer Construction Inspector

Keith Shaffner

RE: Monthly Report: Sewer Construction \ Code Enforcement – March 2020

1.	Per	mits issued:	Current	Year to Date
a.		Single family	0	10
	b.	Multiple family	0	0
	c.	Commercial	2	2
	d.	Repair	1	1
	e.	Disconnection	<u>0</u>	8
		Total	$\overline{3}$	$2\overline{4}$

2.	Ins	pections made:	Current	Year to Date
	a.	Connections	7	18
	b.	Finals	7	21
	c.	1	2	4
	d.	Disconnects	2	6
	e.	Groundwork	1	1
	f.	Walk-Thru	0	0
	g.	Pre-connections	2	2
	h.	Overhead Sewer Program	0	0
	i.	Code Enforcement	4	6
	j.	Lateral testing	8	16
	3	Total	3 3	$\frac{\overline{74}}{74}$

- 3. New Sewer Extension Construction:
 - a. None
- 4. New Sewer Extension Testing air, deflection, manhole, televising and lamping:
 - a. None
- 5. Code Enforcement:
 - a. 513 Rogers Inspection MH investigation and dye testing for Goldfinger Brewing.
 - b. 700 Ogden Underground fuel tank removal contractor hit sanitary service

- 6. Plan & Permit Reviews:
 - a. 5521 Fairmount, single family review
 - b. 1310 75th Street, Laundromat, commercial tenant build out review
 - c. 140 W 63rd Street, Mariano's Gas Station commercial site and architectural plan review
- 7. Building Sanitary Service Access Agreements:
 - a. None
- 8. Illinois EPA Permits:
 - a. None
- 9. Waste Hauling Permits Issued:
 - a. None
- 10. Miscellaneous:
 - a. Possible special assessment areas:
 - Puffer Road Staff met with Connie Caskey a resident on Puffer Road. At this meeting we reviewed the option of seeking funds from IEPA. General Manager Underwood will be investigating a future meeting with IEPA and our State Representative Anne Stava-Murray to request financial assistance for this project from the IEPA.
 - Grant & Lee See separate memo for the status of this inquiry.
 - b. 1K-028 Alley Replacement Repair by Uno Construction Construction continued in the alley until Governor J.B. Pritzker issued the shelter in place order. At that time Uno Construction pulled out of the alley and put the project on hold until a safer time to continue.

Permits Issued: MARCH 2020

YEAI	R PERMIT#	ADDR	ESS	STREET	CIT	ISSUE	TYPE	TAP FEE	INSP FEE
2019	127	100	W	63RD	W	3/20/2020	COMM	\$912.00	\$357.00
2020	20	1310		75TH	DG	3/24/2020	COMM	\$83,904.00	\$206.00
2020	22	5508		BROOKBANK	DG	3/26/2020	REPAIR		
						TOTAL	\$84	4,816.00	\$563.00

Permit Final Inspections: MARCH 2020

YEAR	PERMIT #	ADDRESS	STREET	CITY	FINAL
2019	117	5731	NELSON	DG	3/3/2020
2019	39	4509	STATTON	DG	3/11/2020
2019	76	615	CHICAGO	DG	3/12/2020
2019	42	5309	LYMAN	DG	3/18/2020
2018	73	1140	GILBERT	DG	3/18/2020
2018	138	4637	LINSCOTT	DG	3/27/2020
2019	118	5737	NELSON	DG	3/30/2020

Progress Report

To: Amy Underwood, General Manager From: Reese Berry, Laboratory Supervisor

Date: April 9, 2020

Re: March 2020 Laboratory Report

We had 2 excess rain sampling events in March. We recorded no permit excursions during March 2020.

Surcharge:

Due to Covid19 and the essential staffing mandate, we will not be sampling until the laboratory is fully staffed. In the previous progress report, we were going to tour Flavorchem, but this meeting was postponed due to the Covid19 Pandemic. We will reschedule when Flavorchem allows personnel back into their facility. They are only operating with essential employees at this time.

Biosolids:

We completed a sampling event for biosolids during March. All results we've received have been well under the thresholds for Class A Biosolids. Our program continues to operate as normal with limited staffing.

Pretreatment Activities:

Dental Amalgam Rule:

The second mailing was sent with a due date of April 6th. When we are back to operating as normal I will follow-up in person with the outstanding dental users to get the completed forms. We still need 16 out of 54 users to complete the form.

IWS (Industrial Waste Survey):

The IWS has been delayed due to Covid19 staffing and working from home at this time. This will be a priority mailing for me to complete as we transition back to normal operations in the coming months.

Semi-Annual Sampling:

We completed our semi-annual requirements for Effluent, Influent and Biosolids during the month of March. All results have been completed and are well below acceptable levels.

C: WDVB, AES, PWC, KJR, RTJ, MJS, WCC, MGP



Downers Grove Sanitary District I&I Removal Target Area 1K-028 Parcel Status



STATUS OF 1K-028 INSPECTIONS AND AGREEMENT ACQUISITIONS

Category	Inspections Scheduled	Inspections Completed	Application Received	Agreements Signed	Cleanout Installed	Service Rehab Done	Totals	Total as Percentage
1A	Υ	Υ	N	Υ	Y	N/A	19	8%
1B	Υ	Υ	N	N	N	N/A	1	0%
2A	Υ	Υ	Υ	Υ	Υ	N	81	36%
2B	Υ	Υ	Υ	Υ	Υ	N	17	7%
2D	Υ	Υ	Υ	N	N	N	3	1%
3A	Υ	Υ	Υ	Υ	N	N	4	2%
4	Υ	Υ	N	N	N	N	38	17%
4A	N	N	N	N	N/A	N	4	2%
5	Υ	N	N	N	N	N	0	0%
5A	Υ	Υ	N	N	N	N	12	5%
5AX	Υ	Υ	N	N	N	N	0	0%
5B	Υ	N	N	N	N	N	12	5%
5BX	Υ	N	N	N	N	N	1	0%
0	N	N	N	N	N	N	30	13%
X	-	-	-	-	-	-	5	2%
5X	-	-	-	-	-	-	1	0%
<u>Ca</u>	ategory Descript	tion:					228	100%

Category Description:

1A - PVC service with cleanout(may need to be sealed at the main)

1B - All PVC no Cleanout

2A - Cleanout installed, ready for rehab

2B - Ready for rehab

2D - BSSRAP/OHSP TV done

3A - Released to contractor for cleanout installation

4 - Inspection completed (Program application needed)

4A - Has an existing cleanout

5 - Inspections scheduled

5A - Inspection done - BSSRAP needed (qualifying defects or obstructions seen during TV)

5AX - Violation, BSSRAP needed

5B - Unable to TV

5BX - Unable to TV Violation

0 - Inspection Needed

X - Demolished

5X - Inspection done - Violation not corrected

2015 Basin I&I Ranking = 1

2016 Basin I&I Ranking = 27

2018 Basin I&I Ranking = 6

Combined pit violations found and corrected to date - 0 Storm pit violations found and corrected to date - 2

11% Complete

DOWNERS GROVE SANITARY DISTRICT CASH BALANCES AND INVESTMENT SCHEDULE DATE 3/31/2020

DATI	E: 3/31/2020						PREVIOUS MONTH				
CAS	H BALANCES				=	TOTAL BALANCE	PREVIOUS MONTH				
0, 10				BALANCE PER		PER BANK	MONTHLY	EARNINGS CREDIT			
ACCC	OUNT NAME	ACCOUNT NUME	BER	BANK STATEMENT		STATEMENTS	EARNINGS CREDIT	PERCENTAGE			
	BURSEMENT	XXXXXXXXX1116 XXXXXXXXX1111	1	\$842,630.71 162,440.64							
	KIBLE BENEFITS ROLL	XXXXXXXXXX6025 XXXXXXXXXX1117		6,599.47 201,126.47							
	TY CASH	XXXXXXXXXX1112		3,738.08							
USE	R REFUNDS	XXXXXXXXXX1114	4	4,334.52							
TOTA	L - CASH AT BANK			\$1,220,869.89		\$1,170,670.33	\$404.79	0.0346%			
INVE	STMENTS					GENERAL			PUBLIC	SEWER	INTEREST
					ANNUAL	CORPORATE	IMPROVEMENT	CONSTRUCTION	BENEFIT	EXTENSION	EARNED
TYPE	FINANCIAL INSTITUTION	TERM	MATURITY	AMOUNT	INT. RATE	FUND (01)	FUND (02)	FUND (03)	FUND (05)	FUND (71)	AT MATURITY
CD	TRISTATE CAPITAL	5 MOS	4/9/2020	\$249,990.00	1.800%		\$249,990.00				\$1,874.93
CD	FIRST INTERNET BANK	12 MOS	5/13/2020	\$250,000.00	2.750%		\$250,000.00				\$6,875.00
CD	BMO HARRIS BANK	11 MOS	5/17/2020	\$250,000.00	2.469%	\$250,000.00					\$5,658.13
CD	TAB BANK	12 MOS	5/23/2020	\$250,000.00	2.470%	\$100,000.00	\$150,000.00				\$6,175.00
CD	LISLE SAVINGS BANK	12 MOS	11/7/2020	\$249,000.00	1.990%	\$249,000.00					\$4,955.10
CD	CIT BANK	14 MOS	1/9/2021	\$245,000.00	1.700%	\$245,000.00					\$4,859.17
CD	EVERGREEN BANK GROUP	12 MOS	2/13/2021	\$250,000.00	1.990%	\$250,000.00					\$4,975.00
CD	FIRST MIDWEST BANK	13 MOS	3/15/2021	\$250,000.00	1.490%	\$100,000.00	\$107,719.45		\$35,260.73	\$7,019.82	\$4,035.42
TOTA	L CDs			\$1,993,990.00	1.976%	\$1,194,000.00	\$757,709.45	\$0.00	\$35,260.73	\$7,019.82	\$39,407.73
					CURRENT						ESTIMATED
TYPE	FINANCIAL INSTITUTION	TERM	LAST ACTION DATE	AMOUNT*	RATE OF RETURN						ANNUAL RETURN
MM	AXOS BANK	ONGOING	2/15/2019	\$1,180.86	0.290%	\$1,180.86					\$3.42
MM	BANKFINANCIAL	ONGOING	3/13/2013	\$15,515.60	0.500%	\$15,515.60					\$77.58
MM	CIT BANK	ONGOING	11/9/2016	\$5,000.00	0.450%	\$5,000.00					\$22.50
MM	LIMESTONE BANK	ONGOING	9/9/2013	\$1,077.28	0.100%	\$1,077.28					\$1.08
MM	LISLE SAVINGS BANK	ONGOING	9/2/2015	\$1,001.92	0.400%	\$1,001.92					\$4.01
MM	LUANA SAVINGS BANK	ONGOING	2/15/2019	\$2,513.04	0.590%	\$2,513.04					\$14.83
MM	ROYAL BANK	ONGOING	12/4/2012	\$1,152.78	0.149%	\$1,152.78					\$1.72
MM	STEARNS BANK	ONGOING	9/1/2015	\$250,000.00	1.500%	\$250,000.00					\$3,750.00
MM	TRISTATE CAPITAL BANK	ONGOING	11/9/2016	\$10.00	0.000%		\$10.00				\$0.00
MM	WEST SUBURBAN BANK	ONGOING	11/20/2012	\$5,143.82	0.050%		\$5,143.82				\$2.57
TOTA	L MM ACCOUNTS			\$282,595.30	1.372%	\$277,441.48	\$5,153.82	\$0.00	\$0.00	\$0.00	\$3,877.70
ILLING	DIS FUNDS - MONEY MARKET			\$2,974,757.97	1.229%	\$1,808,538.19	\$356,224.30	\$809,995.48	\$0.00	\$0.00	\$36,559.78
TOTA	L - ALL INVESTMENTS			\$5,251,343.27	1.520%	\$3,279,979.67	\$1,119,087.57	\$809,995.48	\$35,260.73	\$7,019.82	\$79,845.21

TOTAL CASH AND INVESTMENTS

\$6,472,213.16

^{*}INVESTMENT ACCOUNT BALANCES ARE UPDATED QUARTERLY FOR THESE MONEY MARKET ACCOUNTS TO REFLECT NOMINAL INTEREST AMOUNTS EARNED EACH MONTH AND POSTED DIRECTLY TO THE INVESTMENT.

Board of Trustees
Wallace D. Van Buren
President
Amy E. Sejnost
Vice President
Paul W. Coultrap
Clerk



General Manager Amy R. Underwood

Legal CounselMichael G. Philipp

2710 Curtiss Street P.O. Box 1412 Downers Grove, IL 60515-0703 Phone: 630-969-0664 Fax: 630-969-0827 www.dgsd.org

 $Providing\,a\,Better\,Environment for\,South\,Central\,DuPage\,County$

Memo

To: Board of Trustees

From: Amy R. Underwood, General Manager

Date: April 17, 2020

Subject: Treasurer's Report for March 2020

Attached please find the subject report that tracks income and expenses for the first eleven months of Fiscal Year 19-20.

Totals of expenses and income are shown on the following table:

Year-to-date	Income	Expense		
General Fund	\$ 8,655,591.17 (page 1)	\$ 7,608,318.39 (page 6)		
Improvement Fund	\$ 76,047.20 (page 7)	\$ 49,463.02 (page 7)		
Construction Fund	\$ 742,420.41 (page 8)	\$ 14,403.64 (page 9)		
Public Benefit Fund	\$ 811.29 (page 10)	\$ 0.00 (page 10)		
TOTAL	\$ 9,474,870.07	\$ 7,672,185.05		

C: BOLI, WCC, MGP

Downers Grove Sanitary District Date: 04/06/2020

Treasurer's Report Recap for Month Ending 03/31/20

Page: 1

Fund number & Description	Ending					
	Fund Balance					
Fund 01 : GENERAL FUND	\$4,324,917.90					
Fund 02 : IMPROVEMENT FUND	\$1,188,213.06					
Fund 03 : CONSTRUCTION FUND	\$1,043,387.92					
Fund 05 : PUBLIC BENEFIT FUND	\$37,280.08					
Recap Totals	\$6,593,798.96					

DATE 04/06/20 MONTH ENDED 03/31/20 PAGE 1

FUND 01 GENERAL FUND

	COST NUMBER DESCRIPTION	ACTUAL CURRENT MONTH	BUDGET CURRENT MONTH	ACTUAL Y-T-D	BUDGET Y-T-D	ACTUAL- BUDGET VARIANCE	VAR %	TOTAL BUDGET
2001 2002 2005								
1906 1907 1908 1909 1909 1909 1909 1909 1909 1909 1909 1000	3000 PROPERTY TAXES	.00	0	1,219,195.83-	1,188,550-	30,645.83-	2.6	1,188,550-
Math Review First Math	3001 USER RECEIPTS	289,034.87-	306,675-	2,870,772.41-	3,075,039-	204,266.59	6.6-	3,315,400-
100 0 0 0 0 0 0 0 0	3002 SURCHARGES	33,616.87-	27,083-	324,528.90-	297,913-	26,615.90-	8.9	325,000-
1000 1000	3004 PLAN REVIEW FEES	.00	0	417.66-	1,000-	582.34	58.2-	1,000-
30.00 30.	3005 CONSTRUCTION INSPECTION FEES	.00	0	.00	500-		100.0-	500-
1903 SAMPLING AND MONITORING 9,907.56 5,833 96,519.56 64,62 22,365.46 70,000 3014 REPLACEMENT TAXES 2,725.55 4,000 79,261.22 59,200 20,001.22 33.9 75,000 305 75,000 305 75,000 30.			•	•	•	.,		-
1014 REPLACEMENT TAXES								
1011 MISCELLANEOUS INCOME 100		·	-	•	•			
100 100	3014 REPLACEMENT TAXES			•	•		33.9	
10.0 2.792 28.697.95 30.712 2.014.05 6.6 33.500 30.00				•	•			
3024 MONTHELY SERVICE FEES								
\$\ 30.27 Grease Waste			•	•	•			
3040 RENENBLE ENERGY CREDITS 0.0 0.0 3,722.10 2,250 1,472.10 65.4 3,000 3,0		•	•					
100 100		•	•	•	•			
DEPT 1 TOTALS 726,835.52 748,725 8,655,591.17 8,713,919 56,327.83 7.7 9,368,200- FUND REVENUE TOTAL 726,835.52 748,725 8,655,591.17 8,713,919 58,227.83 7.7 9,368,200- DEPT 11 0 & M EXPENSES - ADMINISTRATION SECT A SALARIES AND WAGES A001 TRUSTEES 0.00 0 18,000.00 18,000 0 0.0 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00								
Puri Fund	3050 TRANSFER FROM SA FUNDS		-	•		.,		_
### PURPLY NEW PURPLY	DEPT 05 TOTALS	•	•			·		
DEPT 11	FUND REVENUE TOTAL							
A001 TRUSTEES								
A002 BOLI		0.0	0	18 000 00	18 000	0.0	Ω	18 000
A003 GENERAL MANAGEMENT 35,222.39 37,040 309,528.42 444,481 134,952.58- 30.4- 463,000 100,000 10				•				
A004 FINANCIAL RECORDS 20,985.35 15,472 196,224.51 188,665 10,559.51 5.7 193,400 A005 ADMINISTRATIVE RECORDS 2,325.52 4,920 27,071.32 59,040 31,968.68 54.2 61,500 A006 ENGINEERING 194.32 0 7,066.85 0 7,066.85 0 0 A007 CODE ENFORCEMENT 43,794.35 28,344 390,728.64 340,128 50,600.64 14.9 354,300 A008 SAFETY ACTIVITIES 2,715.22 300 10,983.94 2,448 8,535.94 348.7 2,550 A030 BUILDING AND GROUNDS 245.77 0 547.68 0 547.68 0 0 SECT A TOTALS 105,482.92 86,076 960,151.36 1,050,662 90,510.64 8.6 - 1,093,650 B100 ELECTRICITY 715.32 200 3,047.98 3,750 702.02 18.7 4,000 B101 NATURAL GAS 177.85 350 1,095.65 2,800 1,704.35 60.9 3,000 B102 WATER, GARBAGE AND OTHER UTILITIES 43.29 180 741.34 1,150 408.66 35.5 1,150 B110 BANK CHARGES 1,463.57 1,541 13,367.18 16,951 3,583.82 21.1 18,500 B111 EQUIPMENT/EQUIPMENT REPAIR 20,570.73 5,100 74,408.92 76,400 1,991.08 2.6 81,500 B115 EQUIPMENT/EQUIPMENT REPAIR 20,570.73 5,100 74,408.92 76,400 1,991.08 2.6 81,500 B116 SUPPLIES 683.98 608 6,729.37 6,688 41.37 6 7,300 B116 SUPPLIES 683.98 608 6,729.37 6,688 41.37 6 7,300 B116 SUPPLIES 683.98 608 6,729.37 6,688 41.37 6 7,300 B117 SUPPLIES 683.98 608 6,729.37 6,688 41.37 6 7,300 B117 SUPPLIES 683.98 608 6,729.37 6,688 41.37 6 7,300 B118 SUPPLIES 683.98 608 6,729.37 6,688 41.37 6 6 7,300 B119 SUPPLIES 683.98 608 6,729.37 6,688 41.37 6 6 7,300 B119 SUPPLIES 683.98 688.								
A005 ADMINISTRATIVE RECORDS 2,325.52 4,920 27,071.32 59,040 31,968.68- 54.2- 61,500 A006 ENGINEERING 194.32 0 7,066.85 0 7,066.85 .0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		·	•		•			
A006 ENGINEERING 194.32 0 7,066.85 0 7,066.85 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		·	- /		•			
A007 CODE ENFORCEMENT 43,794.35 28,344 390,728.64 340,128 50,600.64 14.9 354,300 and safety activities 2,715.22 300 10,983.94 2,448 8,535.94 348.7 2,550 and building and grounds 245.77 0 547.68 0 547.68 0 547.68 0 60 and building and grounds 105,482.92 86,076 960,151.36 1,050,662 90,510.64 8.6- 1,033,650 and building and permitted 105,482.92 86,076 960,151.36 1,050,662 90,510.64 8.6- 1,033,650 and building and permitted 105,482.92 86,076 960,151.36 1,050,662 90,510.64 8.6- 1,033,650 and building and permitted 105,482.92 86,076 960,151.36 1,050,662 90,510.64 8.6- 1,033,650 and building and buildi		194.32	•	•				
A008 SAFETY ACTIVITIES 2,715.22 300 10,983.94 2,448 8,535.94 348.7 2,550 A030 BUILDING AND GROUNDS 245.77 0 547.68 0 547.68 0 547.68 .0 6			28.344	•	340,128	50,600.64		354,300
245.77 0 547.68 0 547.68 0 547.68 0 547.68 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	A008 SAFETY ACTIVITIES	•	•	10,983.94	•			
SECT A TOTALS 105,482.92 86,076 960,151.36 1,050,662 90,510.64- 8.6- 1,093,650 SECT B OPERATIONS AND MAINTENANCE B100 ELECTRICITY 715.32 200 3,047.98 3,750 702.02- 18.7- 4,000 B101 NATURAL GAS 177.85 350 1,095.65 2,800 1,704.35- 60.9- 3,000 B102 WATER, GARBAGE AND OTHER UTILITIES 43.29 180 741.34 1,150 408.66- 35.5- 1,150 B110 BANK CHARGES 1,463.57 1,541 13,367.18 16,951 3,583.82- 21.1- 18,500 B112 COMMUNICATION 1,770.48 1,333 15,022.16 14,663 359.16 2.5 16,000 B115 EQUIPMENT/EQUIPMENT REPAIR 20,570.73 5,100 74,408.92 76,400 1,991.08- 2.6- 81,500 B116 SUPPLIES 683.98 608 6,729.37 6,688 41.37 .6 7,300	A030 BUILDING AND GROUNDS		0		0	547.68	.0	
SECT B OPERATIONS AND MAINTENANCE B100 ELECTRICITY 715.32 200 3,047.98 3,750 702.02- 18.7- 4,000 B101 NATURAL GAS 177.85 350 1,095.65 2,800 1,704.35- 60.9- 3,000 B102 WATER, GARBAGE AND OTHER UTILITIES 43.29 180 741.34 1,150 408.66- 35.5- 1,150 B110 BANK CHARGES 1,463.57 1,541 13,367.18 16,951 3,583.82- 21.1- 18,500 B112 COMMUNICATION 1,770.48 1,333 15,022.16 14,663 359.16 2.5 16,000 B115 EQUIPMENT/EQUIPMENT REPAIR 20,570.73 5,100 74,408.92 76,400 1,991.08- 2.6- 81,500 B116 SUPPLIES 683.98 608 6,729.37 6,688 41.37 .6 7,300	SECT A TOTALS	105,482.92	86,076	960,151.36	1,050,662	90,510.64-	8.6-	1,093,650
B100 ELECTRICITY 715.32 200 3,047.98 3,750 702.02- 18.7- 4,000 B101 NATURAL GAS 177.85 350 1,095.65 2,800 1,704.35- 60.9- 3,000 B102 WATER, GARBAGE AND OTHER UTILITIES 43.29 180 741.34 1,150 408.66- 35.5- 1,150 B110 BANK CHARGES 1,463.57 1,541 13,367.18 16,951 3,583.82- 21.1- 18,500 B112 COMMUNICATION 1,770.48 1,333 15,022.16 14,663 359.16 2.5 16,000 B115 EQUIPMENT/EQUIPMENT REPAIR 20,570.73 5,100 74,408.92 76,400 1,991.08- 2.6- 81,500 B116 SUPPLIES	SECT B OPERATIONS AND MAINTENANCE	=========	=======	========	========	:========	:======	=======
B101 NATURAL GAS B102 WATER, GARBAGE AND OTHER UTILITIES 43.29 180 741.34 1,150 408.66- 35.5- 1,150 B110 BANK CHARGES 1,463.57 1,541 13,367.18 16,951 3,583.82- 21.1- 18,500 B112 COMMUNICATION 1,770.48 1,333 15,022.16 14,663 359.16 2.5 16,000 B115 EQUIPMENT/EQUIPMENT REPAIR 20,570.73 5,100 74,408.92 76,400 1,991.08- 2.6- 81,500 B116 SUPPLIES		715.32	200	3.047.98	3.750	702 02-	18.7-	4.000
B102 WATER, GARBAGE AND OTHER UTILITIES 43.29 180 741.34 1,150 408.66- 35.5- 1,150 B110 BANK CHARGES 1,463.57 1,541 13,367.18 16,951 3,583.82- 21.1- 18,500 B112 COMMUNICATION 1,770.48 1,333 15,022.16 14,663 359.16 2.5 16,000 B115 EQUIPMENT/EQUIPMENT REPAIR 20,570.73 5,100 74,408.92 76,400 1,991.08- 2.6- 81,500 B116 SUPPLIES 683.98 608 6,729.37 6,688 41.37 .6 7,300								
B110 BANK CHARGES 1,463.57 1,541 13,367.18 16,951 3,583.82- 21.1- 18,500 B112 COMMUNICATION 1,770.48 1,333 15,022.16 14,663 359.16 2.5 16,000 B115 EQUIPMENT/EQUIPMENT REPAIR 20,570.73 5,100 74,408.92 76,400 1,991.08- 2.6- 81,500 B116 SUPPLIES 683.98 608 6,729.37 6,688 41.37 .6 7,300								·
B112 COMMUNICATION 1,770.48 1,333 15,022.16 14,663 359.16 2.5 16,000 B115 EQUIPMENT/EQUIPMENT REPAIR 20,570.73 5,100 74,408.92 76,400 1,991.08- 2.6- 81,500 B116 SUPPLIES 683.98 608 6,729.37 6,688 41.37 .6 7,300								
B115 EQUIPMENT/EQUIPMENT REPAIR 20,570.73 5,100 74,408.92 76,400 1,991.08- 2.6- 81,500 B116 SUPPLIES 683.98 608 6,729.37 6,688 41.37 .6 7,300								
B116 SUPPLIES 683.98 608 6,729.37 6,688 41.37 .6 7,300		•						
		•			•			
B118 BUILDING AND GROUNDS 1,155.92 1,000 19,806.63 23,000 3,193.37- 13.9- 24,000								
B119 POSTAGE 4.18 958 4,217.55 10,538 6,320.45- 60.0- 11,500								

DATE 04/06/20 MONTH ENDED 03/31/20 PAGE 2

FUND 01 GENERAL FUND

COST NUMBER DESCRIPTION	ACTUAL CURRENT MONTH	BUDGET CURRENT MONTH	ACTUAL Y-T-D	BUDGET Y-T-D	ACTUAL- BUDGET VARIANCE	VAR %	TOTAL BUDGET
B120 PRINTING/PHOTOGRAPHY	570.00	======== 300	8,120.63	11,100	2,979.37-	26.8-	11,400
B121 USER BILLING MATERIALS	14,655.80	6,208	59,435.28	68,288	8,852.72-	13.0-	74,500
B124 CONTRACT SERVICES	5,603.65	9,975	65,806.85	109,725	43,918.15-	40.0-	119,700
B137 MEMBERSHIPS/SUBSCRIPTIONS	110.88	620	8,043.88	10,490	2,446.12-	23.3-	10,700
Sio, IBIBSIONITO, COSSONITIONS			•	•	=======================================		•
SECT B TOTALS	50,044.01	29,456	298,551.30	367,456	68,904.70-	18.8-	396,250
SECT C VEHICLES							
C222 GAS/FUEL	.00	175	963.19	1,625	661.81-	40.7-	1,800
C225 OPERATION/REPAIR	7.99	0	2,216.75	1,400	816.75	58.3	1,400
SECT C TOTALS	7.99	175	3,179.94	3,025	154.94	5.1	3,200
					=======================================		
DEPT 11 TOTALS	155,534.92	•	1,261,882.60		•		1,493,100
DEPT 12 O & M EXPENSES - WWTC	========	=======			========	======	=======
SECT A SALARIES AND WAGES							
A006 ENGINEERING	5,499.23	0	27,425.70	0	27,425.70	.0	0
A009 OPERATIONS MANAGEMENT	10,203.01	2,755	99,073.19	22,512	76,561.19	340.1	23,450
A010 MAINTENANCE - BUDGET	.00	68,456	.00	559,297	59,021.27-	10.6-	582,600
A011 MAINTENANCE - WWTC	45,342.50	0	377,754.98	0	.00	.0	0
A012 MAINTENANCE - VEHICLES	135.16	0	3,460.92	0	.00	.0	0
A013 MAINTENANCE - ENERGY RECOVERY	1,881.54	0	16,337.08	0	.00	.0	0
A014 MAINTENANCE - ELECTRICAL	17,721.92	0	102,722.75	0	.00	.0	0
A020 WWTC - BUDGET	.00	72,545	.00	592,705	77,324.96-	13.1-	617,400
A021 WWTC - OPERATIONS	41,510.75	0	345,076.14	0	.00	.0	0
A022 WWTC - SLUDGE HANDLING	9,448.25	0	160,045.07	0	.00	.0	0
A023 WWTC - ENERGY RECOVERY	647.67	0	10,258.83	0	.00	.0	0
A030 BUILDING AND GROUNDS	13,664.33	5,934	83,511.72	48,480	35,031.72	72.3	50,500
SECT A TOTALS	146,054.36	149,690	1,225,666.38	1,222,994	2,672.38	.2 1	1,273,950
SECT B OPERATIONS AND MAINTENANCE	=========	=======	:========	:=======	========	=======	=======
B100 ELECTRICITY	24,163.66	6,000	77,057.36	66,000	11,057.36	16.8	72,000
B101 NATURAL GAS	994.06	1,700	5,551.02	11,200	5,648.98-	50.4-	12,000
B102 WATER, GARBAGE AND OTHER UTILITIES	2,328.18	4,500	16,619.05	32,100	15,480.95-	48.2-	33,000
B103 ODOR CONTROL	540.00	700	39,194.96	29,700	9,494.96	32.0	30,000
B104 FUEL - GENERATORS	.00	0	3,382.48	15,500	12,117.52-	78.2-	15,500
B112 COMMUNICATION	1,946.05	1,458	16,251.85	16,038	213.85	1.3	17,500
B113 EMERGENCY/SAFETY EQUIPMENT	1,999.54	1,433	11,694.52	15,763	4,068.48-	25.8-	17,200
B116 SUPPLIES	3,080.32	2,479	29,792.93	27,269	2,523.93	9.3	29,750
B117 EMPLOYEE/DUTY COSTS	2,161.43	2,000	18,600.39	24,000	5,399.61-	22.5-	25,000
B124 CONTRACT SERVICES	.00	0	203,705.00	203,700	5.00	.0	203,700
B130 NPDES PERMIT FEES	.00	0	53,000.00	53,000	.00	.0	53,000
B131 SLUDGE HAULING/DISPOSAL SERVICES	.00	0	134,615.25	80,000	54,615.25	68.3	80,000
B400 CHEMICALS - BUDGET	.00	9,308	.00	102,388	10,499.64	10.3	111,700
B401 CHEMICALS - DISINFECTION	.00	0	57,967.48	0	.00	.0	0
B402 CHEMICALS - SLUDGE DEWATERING	4,733.95	0	41,485.00	0	.00	.0	0

DATE 04/06/20 MONTH ENDED 03/31/20 PAGE 3 FUND 01 GENERAL FUND

	ACTUAL	BUDGET			ACTUAL-		
COST	CURRENT	CURRENT	ACTUAL	BUDGET	BUDGET	VAR	TOTAL
NUMBER DESCRIPTION	MONTH	MONTH	Y-T-D	Y-T-D	VARIANCE	%	BUDGET
		=======		========	=========	=======	
B403 CHEMICALS - TERTIARY TREATMENT	.00	0	3,855.78	0	.00	.0	0
B404 CHEMICALS - OTHER	.00	0	9,579.38	0	.00	.0	0
B501 EQPT/EQPT REPAIR - BIOSOLIDS AGING & DISPOS	1,821.81	7,651	63,997.88	84,161	20,163.12-	24.0-	91,809
B502 EQPT/EQPT REPAIR - DISINFECTION	.00	1,108	40,511.24	12,188	28,323.24	232.4	13,301
B503 EQPT/EQPT REPAIR - EXCESS FLOW	.00	4,020	47,620.12	44,220	3,400.12	7.7	48,241
B504 EQPT/EQPT REPAIR - GRIT REMOVAL	.00	3,213	34,985.88	35,343	357.12-	1.0-	38,551
B505 EQPT/EQPT REPAIR - INFLUENT PUMPING	3,324.20	2,700	37,477.26	48,300	10,822.74-	22.4-	51,051
B506 EQPT/EQPT REPAIR - PRIMARY TREATMENT	12,399.93	3,646	38,237.33	40,106	1,868.67-	4.7-	43,751
B507 EQPT/EQPT REPAIR - SECONDARY TREATMENT	812.32	3,500	177,066.48	81,500	95,566.48	117.3	85,176
B508 EQPT/EQPT REPAIR - SLUDGE CONCENTRATION	28,510.13	63,134	127,304.32	694,474	567,169.68-	81.7-	757,606
B509 EQPT/EQPT REPAIR - SLUDGE DEWATERING	30,909.07	2,092	60,025.33	23,012	37,013.33	160.8	25,101
B510 EQPT/EQPT REPAIR - SLUDGE DIGESTION	149.59	5,100	44,829.49	56,100	11,270.51-	20.1-	61,201
B511 EQPT/EQPT REPAIR - TERTIARY TREATMENT	1,004.33	2,038	1,427.91	22,418	20,990.09-	93.6-	24,451
B512 EQPT/EQPT REPAIR - WWTC GENERAL	2,341.29	2,747	21,854.01	30,217	8,362.99-	27.7-	32,961
B513 EQPT/EQPT REPAIR - WWTC UTILITIES	16,848.64	11,158	116,638.91	122,738	6,099.09-	5.0-	133,900
B802 BLDG AND GROUNDS - DISINFECTION	.00	43	11,758.23	473	11,285.23	2,385.9	514
B803 BLDG AND GROUNDS - EXCESS FLOW	.00	86	392.00	946	554.00-	58.6-	1,029
B804 BLDG AND GROUNDS - GRIT REMOVAL	.00	419	11,000.00	4,609	6,391.00	138.7	5,029
B805 BLDG AND GROUNDS - INFLUENT PUMPING	924.90	1,020	7,864.19	11,220	3,355.81-	29.9-	12,239
B806 BLDG AND GROUNDS - PRIMARY TREATMENT	.00	429	1,726.00	4,719	2,993.00-	63.4-	5,149
B807 BLDG AND GROUNDS - SECONDARY TREATMENT	.00	86	670.07	946	275.93-	29.2-	1,029
B809 BLDG AND GROUNDS - SLUDGE DEWATERING	.00	1,044	64.10	11,484	11,419.90-	99.4-	12,529
B810 BLDG AND GROUNDS - SLUDGE DIGESTION	750.16	675	12,632.92	7,425	5,207.92	70.1	8,103
B811 BLDG AND GROUNDS - TERTIARY TREATMENT	787.10	4,179	41,445.91	45,969	4,523.09-	9.8-	50,148
B812 BLDG AND GROUNDS - WWTC GENERAL	5,910.41	10,000	130,089.21	150,000	19,910.79-	13.3-	160,388
B813 BLDG AND GROUNDS - WWTC UTILITIES	.00	129	.00	1,419	1,419.00-	100.0-	1,543
	========	=======	========	========	========	=======	
SECT B TOTALS	148,441.07		1,751,971.24		458,673.76- =======		2,365,150
SECT C VEHICLES							
C222 GAS/FUEL	.00	2,500	14,528.41	27,500	12,971.59-	47.2-	30,000
C225 OPERATION/REPAIR	462.49	625	4,745.89	6,875	2,129.11-	31.0-	7,500
C226 VEHICLE PURCHASES	21,314.00	0	64,060.36	41,000	23,060.36	56.2	41,000
and a manual							
SECT C TOTALS =	21,776.49	3,125	83,334.66 ======	75,375	7,959.66 =======	10.6 ======	78,500
=		=======		========		=======	
DEPT 12 TOTALS	316,271.92				448,041.72-		
DEPT 13 O & M EXPENSES - LABORATORY		=====		======	========		=====
SECT A SALARIES AND WAGES							
A009 OPERATIONS MANAGEMENT	7,263.34	5,168	69,012.91	62,017	6,995.91	11.3	64,600
A040 LABORATORY - BUDGET	.00	13,668	.00	164,016	11,704.10-	7.1-	170,850
A041 LAB - WWTC	14,805.72	0	131,655.50	0	.00	.0	0
A042 LAB - PRETREATMENT	496.15	0	10,071.09	0	.00	.0	0
A043 LAB - SURCHARGE PROGRAM	.00	0	5,240.75	0	.00	.0	0
A044 LAB - BOD	.00	0	280.59	0	.00	.0	0
A047 LAB - MICRO	.00	0	43.34	0	.00	.0	0
A048 LAB - ENERGY RECOVERY	452.51	0	5,020.63	0	.00	.0	0
SECT A TOTALS	23,017.72	18,836	221,324.81	226,033	4,708.19-	2.1-	235,450
=							

DATE 04/06/20 PAGE 4 MONTH ENDED 03/31/20 FUND 01 GENERAL FUND

	ACTUAL	BUDGET			ACTUAL-		
COST	CURRENT	CURRENT	ACTUAL	BUDGET	BUDGET	VAR	TOTAL
NUMBER DESCRIPTION	MONTH	MONTH	Y-T-D	Y-T-D	VARIANCE	%	BUDGET
					VARIANCE		
SECT B OPERATIONS AND MAINTENANCE							
B114 CHEMICALS	.00	1,433	15,463.96	15,763	299.04-	1.9-	17,200
B115 EQUIPMENT/EQUIPMENT REPAIR	.00	1,350	12,531.55	14,850	2,318.45-	15.6-	16,200
B116 SUPPLIES	.00	1,729	12,295.98	19,019	6,723.02-	35.4-	20,750
B117 EMPLOYEE/DUTY COSTS	136.77	458	2,007.15	5,038	3,030.85-	60.2-	5,500
B122 MONITORING EQUIPMENT	.00	0	1,507.89	9,000	7,492.11-	83.3-	9,000
B123 OUTSIDE LAB SERVICES	1,115.00	1,588	14,411.14	17,468	3,056.86-	17.5-	19,050
	•	•	,		==========		·
SECT B TOTALS	1,251.77	6,558	58,217.67	81,138	22,920.33-	28.3-	87,700
=	=======			=======	=========	======	
SECT C VEHICLES							
C222 GAS/FUEL	.00	42	388.02	462	73.98-	16.0-	500
C225 OPERATION/REPAIR	.00	0	1,244.81	150	1,094.81	729.9	200
		========		=======		=======	
SECT C TOTALS	.00	42	1,632.83	612	1,020.83	166.8	700
=	========	========		=======	=========	=======	
					26 607 60		
DEPT 13 TOTALS	24,269.49	25,436	281,175.31	307,783	26,607.69- ======	8.6-	323,850
DEPT 14 O & M EXPENSES - SEWER SYSTEM							
SECT A SALARIES AND WAGES							
A006 ENGINEERING	699.57	0	8,297.96	0	8,297.96	.0	0
A050 SEWER MAINTENANCE - BUDGET	.00	13,068	.00	156,816	24,799.24	15.8	163,350
A051 SEWER MAINTENANCE	22,788.66	0	168,834.03	0	.00	.0	0
A054 SEWER MAINTENANCE - BACKUPS AND HIGH FLOWS	3,600.87	0	12,781.21	0	.00	.0	0
A060 INSPECTION - BUDGET	.00	21,704	.00	260,448	71,521.02-	27.5-	271,300
A061 INSPECTION - NEW CONSTRUCTION	.00	0	1,162.38	0	.00	.0	0
A062 INSPECTION - CONSTRUCTION OF DGSD PROJECTS	7,450.67	0	41,329.91	0	.00	.0	0
A063 INSPECTION - PERMIT INSPECTIONS	844.90	0	11,995.84	0	.00	.0	0
A064 INSPECTION - MISCELLANEOUS	4,364.06	0	50,131.52	0	.00	.0	0
A065 INSPECTION - CONSTR BY VILLAGES, UTILITIES	5,408.18	0	69,060.95	0	.00	.0	0
A066 INSPECTION - CODE ENFORCEMENT	1,292.65	0	15,246.38	0	.00	.0	0
A070 SEWER INVESTIGATIONS - BUDGET	.00	972	.00	11,664	7,418.62-	63.6-	12,150
A072 SEWER INVESTIGATIONS	346.82	0	4,245.38	0	.00	.0	0
	========	========		=======	=========	=======	
SECT A TOTALS	46,796.38	35,744	383,085.56	428,928	45,842.44-	10.7-	446,800
	========	:========		=======	=========	=======	=======
SECT B OPERATIONS AND MAINTENANCE							
B112 COMMUNICATION	644.20	875	7,259.51	9,625	2,365.49-	24.6-	10,500
B113 EMERGENCY/SAFETY EQUIPMENT	144.03	425	958.38	4,675	3,716.62-	79.5-	5,050
B115 EQUIPMENT/EQUIPMENT REPAIR	4,571.34	3,788	43,858.09	41,668	2,190.09	5.3	45,450
B116 SUPPLIES	19.34	458	2,902.08	5,038	2,135.92-	42.4-	5,500
B117 EMPLOYEE/DUTY COSTS	956.51	1,125	8,400.39	12,375	3,974.61-		-
B124 CONTRACT SERVICES	166.95	11,008	120,410.54	121,088	677.46-	.6-	
B127 JULIE SYSTEM	.00	1,408	12,303.24	15,488	3,184.76-		16,900
B128 OVERHEAD SEWER/BACKFLOW PREVENTION PROGRAM	.00	1,250	6,088.00	13,750	7,662.00-	55.7-	·
B129 REIMBURSEMENT PROGRAM/PUBLIC SEWER BLOCKAGE	.00	1,000	501.70	11,000	10,498.30-	95.4-	12,000
B900 SEWER SYSTEM REPAIRS - BUDGET	.00	100,000		1,380,000	485,278.80-		1,481,600
B901 SEWER SYSTEM REPAIRS - I/I PROGRAM	264.00	0	1,648.00	0	.00	.0	0

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FUND 01 GENERAL FUND

COST	ACTUAL CURRENT	BUDGET CURRENT	ACTUAL	BUDGET	ACTUAL- BUDGET	VAR	TOTAL
NUMBER DESCRIPTION	MONTH	MONTH	Y-T-D	Y-T-D	VARIANCE	%	BUDGET
B902 SEWER SYSTEM REPAIRS - REPLACEMENT	424.10	0	33,771.17	0	.00	.0	0
B903 SEWER SYSTEM REPAIRS - REHABILITATION	.00	0	251,650.46	0	.00	.0	0
B910 SEWER SYSTEM REPAIRS - BSSRAP PROGRAM	45,963.67	0	513,323.02	0	.00	.0	0
B913 SEWER SYSTEM REPAIRS - BSSRAP-REPAIR/REPL/R	.00	0	3,532.96	0	.00	.0	0
B929 ARRA LOAN PRINCIPAL REPAYMENT	.00	0	90,795.59	0	.00	.0	0
SECT B TOTALS	53,154.14	121,337	1,097,403.13	1,614,707	517,303.87-	32.0-	1,737,600
SECT C VEHICLES							
C222 GAS/FUEL	.00	2,208	10,406.87	24,288	13,881.13-	57.2-	26,500
C225 OPERATION/REPAIR	1,580.98	542	12,116.37	5,962	6,154.37	103.2	6,500
C226 VEHICLE PURCHASES	.00	0	25,720.00	20,000	5,720.00	28.6	20,000
SECT C TOTALS =	1,580.98	2,750	48,243.24	50,250	2,006.76-	4.0-	53,000
DEPT 14 TOTALS	101,531.50	159,831	1,528,731.93	2,093,885	565,153.07-	27.0- 2	2,237,400
= DEPT 15 O & M EXPENSES - LIFT STATIONS	========	:=======		=======	========	======	
DEFI 15 O & M EXPENSES - HIFT STATIONS							
SECT A SALARIES AND WAGES							
A006 ENGINEERING	336.83	0	1,361.05	0	1,361.05	.0	0
A009 OPERATIONS MANAGEMENT	180.49	36	3,997.95	432	3,565.95	825.5	450
A030 BUILDING AND GROUNDS	246.57	0	3,393.75	0	3,393.75	.0	0
A080 LIFT STATION MAINTENANCE	5,001.39	5,604	52,568.21	67,248	14,679.79-	21.8-	70,050
SECT A TOTALS =	5,765.28	5,640	61,320.96	67,680	6,359.04-	9.4-	70,500
SECT B OPERATIONS AND MAINTENANCE							
B100 ELECTRICITY	8,829.12	10,288	112,361.55	113,168	806.45-	.7-	123,450
B104 FUEL - GENERATORS	.00	0	2,789.43	5,000	2,210.57-	44.2-	5,000
B112 COMMUNICATION	455.01	458	4,036.07	5,038	1,001.93-	19.9-	5,500
B113 EMERGENCY/SAFETY EQUIPMENT	.00	0	273.73	250	23.73	9.5	250
B116 SUPPLIES	.00	0	73.38	360	286.62-	79.6-	400
B520 EQPT/EQPT REPAIR - BUTTERFIELD	.00	165	1,029.99	1,815	785.01-	43.3-	1,981
B521 EQPT/EQPT REPAIR - CENTEX	10.61	379	1,586.96	4,169	2,582.04-	61.9-	4,551
B522 EQPT/EQPT REPAIR - COLLEGE	.00	274	12,156.36	3,014	9,142.36	303.3	3,283
B523 EQPT/EQPT REPAIR - EARLSTON	12,141.88	6,004	34,583.69	66,044	31,460.31-	47.6-	72,051
B524 EQPT/EQPT REPAIR - HOBSON	1,466.00	343	2,572.09	3,773	1,200.91-	31.8-	4,119
B525 EQPT/EQPT REPAIR - LIBERTY PARK	.00	335	3,945.99	3,685	260.99	7.1	4,014
B526 EQPT/EQPT REPAIR - NORTHWEST	158.00	2,252	19,255.35	24,772	5,516.65-	22.3-	27,021
B527 EQPT/EQPT REPAIR - VENARD	1,880.96	268	3,612.04	2,948	664.04	22.5	3,217
B528 EQPT/EQPT REPAIR - WROBLE	1,453.70	169	17,441.88	1,859	15,582.88	838.2	2,033
B529 EQPT/EQPT REPAIR - LIFT STATIONS GENERAL	.00	4,078	11,073.27	44,858	33,784.73-	75.3-	48,930
B820 BLDG AND GROUNDS - BUTTERFIELD B821 BLDG AND GROUNDS - CENTEY	.00	0	1,094.30	0	1,094.30	.0	0
B821 BLDG AND GROUNDS - CENTEX B823 BLDG AND GROUNDS - EARLSTON	.00 162.20	0	1,110.30 1,246.50	0	1,110.30 1,246.50	.0	0
B824 BLDG AND GROUNDS - EARLSTON B824 BLDG AND GROUNDS - HOBSON	.00	0	7,367.30	0	7,367.30	.0	0
B825 BLDG AND GROUNDS - HOBSON B825 BLDG AND GROUNDS - LIBERTY PARK	.00	0	1,124.30	0	1,124.30	.0	0
B826 BLDG AND GROUNDS - DIBERTI PARK B826 BLDG AND GROUNDS - NORTHWEST	.00	1,250	18,593.34	13,750	4,843.34	35.2	15,000

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FUND 01 GENERAL FUND

NUMB		ACTUAL CURRENT MONTH	BUDGET CURRENT MONTH	ACTUAL Y-T-D	BUDGET Y-T-D	ACTUAL- BUDGET VARIANCE	VAR %	TOTAL BUDGET
	BLDG AND GROUNDS - VENARD	.00		1,110.30	 0	1,110.30	.0	0
	BLDG AND GROUNDS - WROBLE	17,433.20	0	55,222.72	17,500	•	215.6	17,500
в829	BLDG AND GROUNDS - LIFT STATIONS GENERAL	.00	1,200	124.41	13,200	13,075.59-	99.1-	14,400
		43,990.68	27,463	313,785.25	325,203	11,417.75-	3.5-	352,700
	DEPT 15 TOTALS	49,755.96	33,103	375,106.21	392,883	•	4.5-	423,200
DE	PT 17 O & M EXPENSES - INSURANCE & EMPLOY		-======	-=======	=======		======	
SE	CT E INSURANCE AND EMPLOYEE BENEFITS							
E452	LIABILITY/PROPERTY	10.00	0	190,580.95	192,500	1,919.05-	1.0-	192,500
E455	EMPLOYEE GROUP HEALTH	38,091.18	44,104	433,104.76	485,144	52,039.24-	10.7-	529,250
E460	IMRF	25,475.69	25,516	250,333.32	257,100	6,766.68-	2.6-	277,350
E461	SOCIAL SECURITY	24,649.07	19,517	206,331.61	216,243	9,911.39-	4.6-	235,150
	SECT E TOTALS	88,225.94	89,137	1,080,350.64	1,150,987	70,636.36-	6.1- 1	,234,250
	DEPT 17 TOTALS	88,225.94	89,137	1,080,350.64	1,150,987	70,636.36-	6.1- 1	,234,250
DE	PT 91 SA EXPENSE							
0660	SA REBATES	.00	0	20,099.42	0	,	.0	0
	DEPT 91 TOTALS	.00	0	20,099.42	0	.,	()
	FUND EXPENSE TOTAL	735,589.73	735,824	7,608,318.39	8,875,695	1,267,376.61-	14.3- 9	,429,400
	FUND 01 TOTALS	8,754.21	12,901-	1,047,272.78	- 161,776	1,209,048.78-	747.4-	61,200

TREASURER'S REPORT

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FUND 02 IMPROVEMENT FUND

NUMBER	COST DESCRIPTION	ACTUAL CURRENT MONTH	BUDGET CURRENT MONTH	ACTUAL Y-T-D	BUDGET Y-T-D	TOTAL BUDGET	.======		
DEPT 05	REVENUES								
3007 INTER	EST ON INVESTMENTS	1,721.09-	1,429-	22,919.51-	15,719-	17,150-			
3010 TRUNK	SEWER SERVICE CHARGES	.00	7,500-	44,608.69-	82,500-	90,000-			
3019 LATER	AL SEWER CHARGE	.00	0	8,519.00-	0	0			
DEPT	= 05 TOTALS =	1,721.09-	8,929-	76,047.20-	98,219-	107,150-			
DEPT 30	CAPITAL EXP - ARRA - LOAN REPAYMENTS	5							
0500 PROJE	CT BUDGET	.00	0	.00	46,600	93,200			
0515 PAYME	NT ON LOAN PRINCIPAL	.00	0	46,595.52	0	0			
DEPT	30 TOTALS	.00	0	46,595.52	46,600	93,200			
DEPT 36	CAPITAL EXP - LIBERTY PARK LIFT STAT								
	=		========		=======				
DEPT	36 TOTALS	.00	0	.00	0	0			
DEPT 74	DEPT 74 CAPITAL EXP - SEWER - UNSEWERED AREAS								
0500 PROJE	CT BUDGET	.00	7,500	.00	7,500	7,500			
0501 REPOR	T ENGINEERING/ARCHITECTURAL	.00	0	2,867.50	0	0			
DEPT	74 TOTALS	.00	7,500	2,867.50	7,500	7,500			
FUND	EXPENSE TOTAL	.00	7,500	49,463.02	54,100	100,700			
FUND	02 TOTALS	1,721.09-		26,584.18-		6,450-			

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FUND 03 CONSTRUCTION FUND

DEPT 38 TOTALS

		COST	ACTUAL CURRENT	BUDGET CURRENT	ACTUAL	BUDGET	TOTAL	
NUMBER	DESCRIPTION		MONTH	MONTH	Y-T-D	Y-T-D	BUDGET	
DEPT 05	REVENUES		=======	-=======	=======			
3007 INTERES	ST ON INVESTM	MENTS	857.01-	833-	8,436.71-	9,163-	10,000-	
3009 SEWER F	PERMIT FEES		84,816.00-	20,833-	233,983.70-	229,163-	250,000-	
3093 GRANT F	FUNDING		.00	500,000-		500,000-	500,000-	
DEPT 05	5 TOTALS		85,673.01-	521,666-	742,420.41-	738,326-	760,000-	
DEPT 30	CAPITAL EXP	- ARRA - LOAN REPAYMENTS						
0500 PROJECT	T BUDGET		.00	0	.00	14,450	28,900	
0515 PAYMENT	ON LOAN PRI	NCIPAL	.00	0	14,403.64	0	0	
DEPT 30) TOTALS		.00	0	14,403.64	14,450	28,900	
DEPT 31	CAPITAL EXP	- WWTC - CHP BIOGAS						
DEPT 31	TOTALS	=:	.00	0	.00	0	0	
DEPT 32	CAPITAL EXP	WWTC - SECOND TURBOBLO	WER					
DEPT 32	2 TOTALS	=:	.00	0	.00	0	0	
DEPT 33	CAPITAL EXP	=: - WWTC - DIGESTER MIXING,		:=======	========	=======		
DEPT 33	3 TOTALS	=:	.00	0	.00	0	0	
DEPT 34	CAPITAL EXP	=: O - WWTC - GREASE WASTE DE		:=======	========	=======		
DEPT 34	1 TOTALS	=:	.00	0	.00	0	0	
DEPT 35	CAPITAL EXF	== P - WWTC - CHP BIOGAS PHASI	======= E 2	:=======:	========	=======		
DEPT 35	5 TOTALS		.00	0	.00	0	0	
DEPT 37	CAPITAL EXP	=: O - WWTC - GREASE RECEIVING		:=======	========	=======		
DEPT 37	7 TOTALS		.00	0	.00	0	0	
DEPT 38	CAPITAL EXP	=: - WWTC - PROPERTY ACQUIS:		:=======:	========	=======		
		=:		:=======	========	========		

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FUND 03 CONSTRUCTION FUND

FUND 03 TOTALS

			ACTUAL	BUDGET				
		COST	CURRENT	CURRENT	ACTUAL	BUDGET	TOTAL	
NUMBER	DESCRIPTION		MONTH	MONTH	Y-T-D	Y-T-D	BUDGET	
DEPT 39	CAPITAL EXP	- WWTC - GRIT BLOWER REP	 LACEMENT		=======		========	
		=:			========	========	========	:==========
DEPT	39 TOTALS		.00	0	.00	0	0	
DEPT 40	CAPITAL EXP	=: - WWTC - LOAN REPAYMENT	=======	:=======	=======	=======		
DEPT	40 TOTALS	=:	.00	0	.00	0	0	
FUND	EXPENSE TOTAL	_	.00	0	14,403.64	14,450	28,900	

85,673.01- 521,666- 728,016.77- 723,876- 731,100-

FUND 05 TOTALS

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NUMBER	DESCRIPTION	COST	ACTUAL CURRENT MONTH	BUDGET CURRENT MONTH	ACTUAL Y-T-D	BUDGET Y-T-D	TOTAL BUDGET	
DEPT 05	REVENUES							
3007 INTERE	ST ON INVESTM	ENTS	50.64-	46-	811.29-	506-	550-	
DEPT 0	5 TOTALS	=:	50.64-	46-	811.29-	506-	550-	
DEPT 59	CAPITAL EXP	- SEWER - SEWER EXTENSION	NS					
		=:		========		=======	=======	============
DEPT 5	9 TOTALS		.00	0	.00	0	0	
DEPT 65 CAPITAL EXP - SEWER - REIMB FOR ADDED DEPTH							===========	
DEPT 6	5 TOTALS	=:	.00	0	.00	0	0	
FUND E	XPENSE TOTAL		.00	0	.00	0	0	

50.64- 46- 811.29- 506- 550-

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FUND 58 SPECIAL ASSESSMENT NO. 58

		ACTUAL	BUDGET				
	COST	CURRENT	CURRENT	ACTUAL	BUDGET	TOTAL	
NUMBER	DESCRIPTION	MONTH	MONTH	Y-T-D	Y-T-D	BUDGET	
DEPT 05	REVENUES	========	-========	========	:======:		
3008 INTER	EST ON ASSESSMENTS	.00	0	327.46-	0	0	
DEPT	05 TOTALS	.00	0	327.46-	0	0	
DEPT 91	SA EXPENSE	========	-=======	=======	:======	=======	
0650 TRANS	FER TO GENERAL FUND	.00	0	20,099.42	0	0	
DEPT !	91 TOTALS	.00	0	20,099.42	0	0	
FUND 1	EXPENSE TOTAL	.00	0	20,099.42	0	0	
FUND !	58 TOTALS	.00	0	19,771.96	0	0	

DATE 04/06/20 MONTH ENDED 03/31/20 PAGE 12

FUND 71 SEWER EXTENSIONS ESCROW

FUND 71 TOTALS

NUMBER	COST DESCRIPTION	ACTUAL CURRENT MONTH	BUDGET CURRENT MONTH	ACTUAL Y-T-D	BUDGET Y-T-D	TOTAL BUDGET	
DEPT 05	REVENUES	=========		========	=======	=======	:==========
3007 INTERE	ST ON INVESTMENTS	10.06-	- 0	161.12-	0	0	
DEPT 0	5 TOTALS	10.06-	-	161.12-	 0 =======	0	
DEPT 92	SEWER EXPENSE						
		========			=======	=======	
DEPT 9	2 TOTALS	.00	0	.00	0	0	
FUND E	XPENSE TOTAL	.00	0	.00	 0 	0	

10.06- 0 161.12- 0 0

Amy Underwood

From: Downers Grove Sanitary District <noreply@dgsd.org>

Sent:Monday, March 16, 2020 8:19 AMTo:Amy Underwood; Clay CampbellSubject:New submission from Contact Us

Follow Up Flag: Flag for follow up

Flag Status: Flagged

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Email

Phone

Subject

Thank you...

Message

Just wanted to give you guys a shout out and some quick words of encouragement - thank you for all that you do to keep us safe and healthy. While it largely goes unnoticed on a day to day basis, your work will be absolutely critical to getting us through this Pandemic and your bravery and fortitude and that of your peers will be one of the things that enables us to make it through these troubling times.

I can't tell you how much I appreciate your continuing efforts, efforts that enable many of us to go on knowing that we count on the things that we too often take for granted.

You guys and those who maintain our electrical and clean water systems are the lifeblood of this country and you need to hear that.

Thank you!!

Board of Trustees
Wallace D. Van Buren
President
Amy E. Sejnost
Vice President
Paul W. Coultrap
Clerk



General Manager Amy R. Underwood

Legal CounselMichael G. Philipp

2710 Curtiss Street P.O. Box 1412 Downers Grove, IL 60515-0703 Phone: 630-969-0664 Fax: 630-969-0827 www.dgsd.org

Providing a Better Environment for South Central DuPage County

MEMO

TO: District Staff

FROM: Amy Underwood, General Manager

DATE: March 18, 2020

RE: Coronavirus Response Measures – Sick Time

Thank you all for your quick action in response to the memo you received from me on Friday, March 13, 2020 outlining the Downers Grove Sanitary District's Coronavirus Disease 2019 (COVID-19) response measures. At the Board meeting last night, the Trustees commended everyone for your ongoing efforts.

Ensuring the health of all employees is a priority. As already stated, employees are to stay home if you are sick, especially if you are experiencing fever, cough or shortness of breath. Please notify your supervisor of your absence and use sick time. If you run out of sick time and need additional time off work related to a COVID-19 absence, the Board of Trustees has given me the discretion to award additional sick time as needed outside the framework of the District's HR manual. This applies only to full time employees that earn sick time.

If you become sick when staying at home while on-call, please notify your supervisor immediately so that you can be replaced by a healthy employee in the on-call rotation.

If you have any questions or concerns, please reach out to your supervisor or me.

C: BOT

Amy Underwood

From: Amy Underwood

Sent: Friday, March 20, 2020 5:52 PM

To:

Subject: Stay at Home Order

To All Employees:

As you all are likely already aware, Governor Pritzker signed an Executive Order this afternoon placing the State of Illinois under a Stay at Home Order effective from 5:00 p.m. Saturday, March 21st through the end of day on Tuesday, April 7th. Under this order, municipal operations will continue but be limited to essential functions. The work of the Downers Grove Sanitary District is essential throughout this period to protect the health of the citizens in the communities we serve.

In order to mitigate the spread of the coronavirus while still maintaining our operations during this period, all employees that are able to do so will work from home during this period and the functions of employees that need to be at work will be limited to the essential tasks required to operate and maintain our facilities and protect public health. You will be receiving instructions from your supervisor outlining the essential services plan for your department. Many of you will be asked to be on standby at home but will be expected to be able to respond at any time if needed. If you do become sick and you are not able to respond to calls, you need to notify your supervisor so you can be switched from standby pay to sick pay.

You should have received an e-mail this afternoon with a personalized Notification to Authorities for your use during this time. Please let Clay Campbell know if you did not receive this e-mail.

Thank you all for the amazing job that you have done this week and I know will continue to do in the next few weeks while we get through this time. Your flexibility, understanding and dedication to what we do is appreciated.

Please do not hesitate to reach out to me, your supervisor or Clay Campbell if you have any questions.

Best Regards,

Amy R. Underwood, P.E.

General Manager

Downers Grove Sanitary District

2710 Curtiss Street P.O. Box 1412 Downers Grove, IL 60515 (630)969-0664 www.dgsd.org

COVID-19 Response

The current coronavirus situation and the gubernatorial stay at home order are unlike anything that the District has ever had to face before. Over the past two weeks, District management has been impressed with how each individual employee has been flexible and risen to the challenge of implementing necessary changes in work environment which allow us to maintain social distancing while continuing to serve our customers and protect the environment. Thank you for your efforts. Your continued understanding and dedication will be invaluable in successfully making it through this unique time.

Fee Revisions

The Board approved Ordinance No. ORD 20-01 increasing these District fees and charges with an effective date of March 29, 2020:

- a) Permit inspection fees \$223 per building service for single family class and \$369 per building service for all other classes or \$213 per building if no work is required on the service.
- b) Tap-in fee \$928 per population equivalent (P.E.).
- c) Trunk sewer service charges \$430 per P.E.
- d) Lateral sewer charge \$11,965 per building drain to near side property and \$8,667 per building drain to far side property.
- e) Sewer construction inspection fee \$70.50 per hour straight time and \$105.75 per hour overtime.
- f) User rate \$1.80 per 1000 gallons of water consumption.
- g) Flat-rate \$43.20 per quarter.
- h) Surcharge rate for BOD \$0.28 per pound and surcharge rate for TSS \$0.40 per pound and flat-rate surcharge of \$3.70 per 1000 gallons.
- i) Sampling and monitoring charge This charge will vary from \$5.75 per month to \$127.71 per month depending on the type of user.

Five Year Financial Plan and Appropriation Ordinance

At the March 17 meeting, the Board approved the Five Year Financial Plan for Fiscal Years 2020-21 to 2024-25. The plan includes a \$0.10 increase in the FY 20-21 budget for the user fee (increasing from \$1.70 to \$1.80) and no increase in the monthly service fee (currently at \$17.00 per month). The Board also approved the Fiscal Year 2020-2021 Appropriation Ordinance. The plan sets a budget for operation and maintenance expenses of \$10,931,950 for the fiscal year starting May 1, 2020.

Wage Adjustment Memos

Wage adjustment memos were distributed to all employees electronically on Thursday, March 26 with an effective date of March 22 for hourly employees and April 1 for supervisors. Please see your supervisor or Amy Underwood if you have any questions

Personnel

We are currently in the process of hiring two employees for summer work at the WWTC. Interested individuals should submit applications electronically at https://www.dgsd.org/opportunities/.

Employee Function – Tivoli Bowl

Due to the current stay at home order issued by the Governor and the uncertain conditions of the next month, we are postponing this event that was scheduled for Wednesday, April 29 for the District's annual Tivoli Bowl employee function. We are looking to reschedule this event for some time in August.

TopHealth

The April issue of TopHealth is enclosed.

Group Health Insurance

We are currently soliciting proposals for renewal of our group medical, dental, vision and life insurance benefits with a plan year of June 1 – May 31.

DuPage County River Sweep

DuPage County River Sweep 2020 is still scheduled for Saturday, May 16 from 9:00 a.m. to noon. River Sweep is a county-wide stream clean-up on an annual basis. The purpose of River Sweep is to encourage citizens and volunteer groups to help "sweep our rivers clean" by picking up debris in and along our waterways. Your family members are also welcome. There will be additional sign-up information in the next month or so.

Sewer Rehabilitation/Infiltration and Inflow Removal

We are targeting the 1-K-028 area for private property inspections and I/I removal. We are also monitoring the area around the 1-M-049 manhole to evaluate flows in the vicinity and impacts of the installation of a bolt-down cover at 1-M-049. Data collected during recent storms shows that the local system containing 1-M-049 appears to be operating satisfactorily. Regular flow monitoring continues.

Status of Projects

1) Westmont Alley Sewer Replacement

The project consists of alley sewer replacement work in the 1-K-028 drainage area, in the vicinity of Lincoln St and Grant St between Naperville Rd and Burlington Ave. Uno Construction has been forced to pause work correcting sagged sections of new pipe due to unavailability of rock.

2) 001 Outfall Pipe Repair

Baxter & Woodman has completed the design of the repairs needed for the sagged section of the outfall pipe that carries effluent flow to the East Branch of the DuPage River. They are coordinating with DuPage County Stormwater to address their permit review comments.

3) WWTC WAS Mechanical Thickening

Submittals from the contractor are under review at Baxter & Woodman. R.J. O'Neil relocated the grinder and grease pump to make space for the new thickener.

COVID-19 Response

Thank you everyone for your continued patience and perseverance through this time. Your efforts are recognized and appreciated.

WWTC Operations Data – March

The DMR for March indicates that the final effluent averaged 1.6 mg/l CBOD, 0.9 mg/l suspended solids and 1.84 mg/l ammonia nitrogen over a daily average flow of 13.38 MGD. There were no permit excursions in March.

Financial Data – March

In March, the District received \$726,836 in the General fund, including \$289,035 in user charges, \$33,617 in surcharges and \$380,661 in monthly fees. General fund expenses totaled \$735,590. The Improvement fund had revenues of \$1,721 and expenses of \$0. The Construction fund had revenues of \$85,673 and expenses of \$0.

Sewer Permits – March

There were 3 sewer permits issued in March -2 commercial and 1 repair.

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3) WWTC WAS Mechanical Thickening

R.J. O'Neil is currently waiting for materials and equipment to arrive so that they may continue the work.

DOWNERS GROVE SANITARY DISTRICT

MEMO

TO: All Employees

FROM: Amy R. Underwood General Manager

DATE: April 3, 2020

RE: Families First Coronavirus Response Act and Emergency Paid Sick Leave for Full-Time District Employees

The Families First Coronavirus Response Act ('FFCRA") took effect April 1st, and expires on December 31, 2020. The FFCRA requires certain employers to provide their employees with paid sick leave and expanded family medical leave for specified reasons related to COVID-19.

The attached federal notice, which also has been posted, addresses the benefits generally provided by this new law, provided an employee is eligible for the benefits.

Under the FFCRA, an employer has the right to exclude emergency responders. The law allows employers to exclude emergency responders (and health care providers) because they are needed to respond to the pandemic. The Department of Labor has determined that, under the FFCRA, "emergency responders" include, but are not limited to, firefighters, law enforcement officers, public health personnel, paramedics, 911 operators, <u>public works personnel and others needed to provide aid in a declared emergency as well as employees who work for employers that employ these individuals and whose work is necessary to maintain the operation of the employer or whose services are otherwise needed to limit the spread of COVID-19. Given the need for the District to provide ongoing emergency response to its residents in this crisis and maintain our facilities that provide an ongoing limit to spreading COVID-19, the District must exclude all of its employees as emergency responders from receiving paid leave under the FFCRA.</u>

At the March 17, 2020 regular Board meeting, I received authority from the District's Board of Trustees to award additional paid sick leave to the District's full-time employees in order to best protect the District from the spread of COVID-19. I have prepared the attached Emergency COVID-19 Absence Policy as a result. Please read this policy carefully so that you are fully informed as to the benefit the policy provides as well as the notification procedure that must be followed. In addition, there are specific "Back to Work Clearance" and "Return to Work Practices and Work Restrictions" sections that must be followed by <u>all employees</u> regardless of whether they received a benefit under the Policy.

Each employee is important and essential to supporting District operations and that is why we have determined that all of our employees are emergency responders. To help us all through this crisis, we want you to be safe and do not want anyone who has become infected or has come into contact with someone who has been infected reporting to work. Please let us know if you are ill or have had contact with someone who is and therefore need to be quarantined.

I want to thank each of you for your ongoing efforts and support to the District and each other during this unprecedented time.

If you have any questions, please let me or your Supervisor know.

DOWNERS GROVE SANITARY DISTRICT TEMPORARY EMPLOYEE POLICY EMERGENCY COVID-19 ABSENCE POLICY

Effective Dates: April 1, 2020 – December 31, 2020

Date Issued: April 3, 2020

Emergency Paid Sick Leave

All full time employees are entitled to eighty (80) hours of emergency paid sick leave (referred to as "emergency paid sick leave") effectively immediately. Emergency paid sick leave may be used only during the effective dates provided herein for the following reasons:

- 1. The employee has been advised by a health care provider to self-quarantine because of COVID-19, or
- 2. The employee is caring for a family member who has been advised by a health care provider to quarantine because of COVID-19. For the purposes of this temporary policy, a family member is defined as any of the following: child, spouse, domestic partner, sibling, parent, mother-in-law, father-in-law, grandchild, grandparent or stepparent (collectively defined as "eligible family member").

Any emergency paid sick leave that has not been used by December 31, 2020 will be forfeited. If an employee runs out of emergency paid sick leave and needs additional time off due to a COVID-19 absence, the employee may use regular accrued sick leave, vacation time or personal leave as allowed by the District's Employee Policy Manual.

In order to receive emergency paid sick leave, the following notification procedure must be followed:

- 1. The employee must call on the first day of quarantine in accordance with the rules outlined below.
- 2. The employee must call his/her immediate supervisor and notify him/her that the employee will not be reporting to work. The employee must specify whether the absence is due to their own personal illness/quarantine or if it is due to the illness/quarantine of an eligible family member. Employees unable to reach their supervisor must notify any other supervisor. If none of these individuals are available, the employee must notify the General Manager. If the General Manager is not available, the employee must leave a message with the District office personnel (not with the answering service or in voicemail) and the employee will receive a call back from the appropriate individual. When under a government issued Stay at Home Order, the District office will be open to calls Monday through Friday between 8:00 a.m. and 2:00 p.m.

- 3. The employee must call in within one (1) hour after the employee's scheduled starting time.
- 4. If an employee calls in and leaves a message with a fellow employee or with the answering service and does not follow the call-in procedure outlined above, the employee will not receive emergency paid sick leave for the absence.
- 5. When the employee calls to provide notification of his/her absence, the employee must indicate the expected duration of the leave as determined by the health care provider. If the expected duration of the leave changes during the course of the leave, the employee needs to notify his/her supervisor immediately. The employee will not be held to the expected return date. This is solely to assist the employee's supervisor with scheduling staffing for the expected duration of the employee's leave. The employee may only return to work once the Back to Work Clearance provisions provided herein are met.
- 6. When the employee calls to provide notification of his/her absence, the employee's supervisor may ask questions as needed to ascertain whether other District employees were potentially exposed to COVID-19 thereby requiring the District to take additional measures to prevent the spread to other employees. Please note that COVID-19 related absences are still covered by HIPAA.

If deemed necessary, the General Manager, at his/her discretion, may require any employee claiming the benefit of emergency paid sick leave for their own personal illness to submit written proof of eligibility, signed by a health care provider. Proof of eligibility may be from a tele-health provider.

Back to Work Clearance

Any employee returning to work after using emergency paid sick leave or after a COVID-19 related absence, regardless of whether paid leave was utilized, must furnish to his/her supervisor a back to work release from a duly licensed physician. Said release may be from a tele-health provider.

Employees shall not return to work until:

- 1. At least 3 days (72 hours) have passed since recovery defined as resolution of fever without the use of fever-reducing medications <u>and</u> improvement in respiratory symptoms (e.g., cough, shortness of breath), <u>and</u>
- 2. At least 7 days have passed since symptoms first appeared.

Return to Work Practices and Work Restrictions

Any employee returning to work after a COVID-19 related absence shall:

- 1. Be restricted from contact with persons who are severely immunocompromised until all symptoms are completely resolved or until 14 days after illness onset, whichever is longer,
- 2. Adhere to hand hygiene, respiratory hygiene, and cough etiquette in the Center for Disease Control's (CDC's) interim infection control guidance (e.g., cover nose and mouth when coughing or sneezing, dispose of tissues in waste receptacles), and
- 3. Self-monitor for symptoms and seek re-evaluation from a health care provider if respiratory symptoms recur or worsen.

EMPLOYEE RIGHTS

PAID SICK LEAVE AND EXPANDED FAMILY AND MEDICAL LEAVE UNDER THE FAMILIES FIRST CORONAVIRUS RESPONSE ACT

The **Families First Coronavirus Response Act (FFCRA or Act)** requires certain employers to provide their employees with paid sick leave and expanded family and medical leave for specified reasons related to COVID-19. These provisions will apply from April 1, 2020 through December 31, 2020.

PAID LEAVE ENTITLEMENTS

Generally, employers covered under the Act must provide employees:

Up to two weeks (80 hours, or a part-time employee's two-week equivalent) of paid sick leave based on the higher of their regular rate of pay, or the applicable state or Federal minimum wage, paid at:

- 100% for qualifying reasons #1-3 below, up to \$511 daily and \$5,110 total;
- ²/₃ for qualifying reasons #4 and 6 below, up to \$200 daily and \$2,000 total; and
- Up to 12 weeks of paid sick leave and expanded family and medical leave paid at $\frac{2}{3}$ for qualifying reason #5 below for up to \$200 daily and \$12,000 total.

A part-time employee is eligible for leave for the number of hours that the employee is normally scheduled to work over that period.

ELIGIBLE EMPLOYEES

In general, employees of private sector employers with fewer than 500 employees, and certain public sector employers, are eligible for up to two weeks of fully or partially paid sick leave for COVID-19 related reasons (see below). *Employees who have been employed for at least 30 days* prior to their leave request may be eligible for up to an additional 10 weeks of partially paid expanded family and medical leave for reason #5 below.

QUALIFYING REASONS FOR LEAVE RELATED TO COVID-19

An employee is entitled to take leave related to COVID-19 if the employee is unable to work, including unable to **telework**, because the employee:

- **1.** is subject to a Federal, State, or local quarantine or isolation order related to COVID-19;
- **2.** has been advised by a health care provider to self-quarantine related to COVID-19;
- **3.** is experiencing COVID-19 symptoms and is seeking a medical diagnosis;
- **4.** is caring for an individual subject to an order described in (1) or self-quarantine as described in (2);
- **5.** is caring for his or her child whose school or place of care is closed (or child care provider is unavailable) due to COVID-19 related reasons; or
- **6.** is experiencing any other substantially-similar condition specified by the U.S. Department of Health and Human Services.

ENFORCEMENT

The U.S. Department of Labor's Wage and Hour Division (WHD) has the authority to investigate and enforce compliance with the FFCRA. Employers may not discharge, discipline, or otherwise discriminate against any employee who lawfully takes paid sick leave or expanded family and medical leave under the FFCRA, files a complaint, or institutes a proceeding under or related to this Act. Employers in violation of the provisions of the FFCRA will be subject to penalties and enforcement by WHD.



For additional information or to file a complaint:

1-866-487-9243 TTY: 1-877-889-5627

TTY: 1-877-889-5627 dol.gov/agencies/whd

