



AGENDA
REGULAR MEETING OF THE MAYWOOD CITY COUNCIL AND THE
SUCCESSOR AGENCY TO THE MAYWOOD COMMUNITY
REDEVELOPMENT AGENCY

WEDNESDAY, AUGUST 25, 2021 AT 7:00 PM

Maywood City Council Chambers
4319 E. Slauson Avenue, Maywood, CA 90270
www.cityofmaywood.com

I. CALL TO ORDER/ROLL CALL

CALL TO ORDER
ROLL CALL

II. CITY OFFICIALS

MAYOR
Ricardo Lara

CITY CLERK
Flor Aguiluz

MAYOR PRO TEM
Heber Marquez

CITY TREASURER
Mary Mariscal

COUNCIL MEMBERS
Eduardo De La Riva
Frank Garcia
Jessica Torres

CITY MANAGER
Jennifer E. Vasquez

CITY ATTORNEY
Roxanne Diaz

III. COVID-19 MEETING PROCEDURES

PUBLIC ADVISORY: THE CITY COUNCIL CHAMBERS WILL NOT BE OPEN TO THE PUBLIC Pursuant to Section 3 of Executive Order N-29-20, issued by Governor Newsom on March 17, 2020, this meeting will be conducted telephonically through Zoom and broadcast live on the City's Facebook page. Please be advised that pursuant to the Executive Order, and to ensure the health and safety of the public by limiting human contact that could spread the COVID-19 virus, the Council Chambers will not be open for the meeting. Council Members will be participating telephonically and will not be physically present in the Council Chambers.

If you would like to speak on an agenda item, you can access the meeting remotely via zoom:

Join by phone 1-669-900-6833 Enter Meeting 823 7759 9302 Passcode: 461907
OR

Please click the link below to join the webinar:

<https://us02web.zoom.us/j/82377599302?pwd=cm5vMTVENVJPMTRqb2NSRldZZlBvQT09>
Passcode: 461907

If you want to comment during the public comment portion of the agenda, Press *9 on your phone or raise your hand in the zoom controls and we will select you from the meeting cue. NOTE: Your phone number will appear on the screen unless you first dial *67 before dialing the numbers as shown above.

The City wants you to know that you can also submit your comments by email to shirley.quinones@cityofmaywood.org. To give adequate time to print out your comments for consideration at the meeting, please submit your written comments prior to 4:30 p.m.; or if you are unable to email, please call the City Clerk's Office at (323) 562-5714 by 4:30 p.m.

If you wish to have your comments read to the Council Members during the appropriate Public Comment period, please indicate in the Subject Line "FOR PUBLIC COMMENT" and list the item number you wish to comment on. Comments that you want read to the Council will be subject to the three minute time limitation (approximately 350 words). Written comments that are only to be provided to Council and not read at the meeting will be distributed to the Council prior to the meeting.

Pursuant to the Executive Order, and in compliance with the Americans with Disabilities Act, if you need special assistance to participate in the Council meeting, please contact the City Clerk's Office, (323) 562-5714 within 48 hours of the meeting.

IV. MAYOR, COUNCILMEMBERS AND STAFF COMMENTS

V. PUBLIC PARTICIPATION (Agenda Items; Time allotted: 3 minutes)

Speakers wishing to address the City Council on an item on the agenda may use the instructions provided in section **III. COVID - 19 MEETING PROCEDURES** on page 1 of this agenda.

If you want to comment during the public comment portion of the agenda, Press *9 on your phone or raise your hand in the zoom controls and we will select you from the meeting cue. NOTE: Your phone number will appear on the screen unless you first dial *67 before dialing the numbers as shown above.

VI. PRESENTATIONS

ECO-RAPID TRANSIT CHAIR ALI TAJ AND EXECUTIVE DIRECTOR MICHAEL KODAMA WILL PROVIDE AN UPDATE ON THE DRAFT WEST SANTA ANA BRANCH EIR/EIS AND THE SB1

PACIFIC/RANDOLPH & FLORENCE/SALT LAKE STATION PLANS.

METRO PLANNING TO PRESENT RAIL TO RIVER ACTIVE TRANSPORTATION CORRIDOR -
SEGMENT B PROJECT UPDATES

SHERIFF'S UPDATE

VII. PUBLIC HEARING

VIII. CONSENT CALENDAR

All matters listed under CONSENT CALENDAR are considered to be routine and can be acted on by one roll call vote. There will be no separate discussion of these items unless members of the City Council request specific items to be removed from the Consent Calendar for separate discussion or action.

1. MINUTES OF THE AUGUST 11, 2021 CITY COUNCIL MEETING
2. A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MAYWOOD AND SUCCESSOR AGENCY TO THE MAYWOOD COMMUNITY REDEVELOPMENT AGENCY APPROVING THE WARRANTS FOR PAYMENT
3. REVENUE REPORT FOR JULY 2021
4. AUTHORIZATION FOR RELEASE OF REQUEST FOR PROPOSAL (RFP) FOR ENGINEERING AND DESIGN SERVICES FOR SEWER IMPROVEMENTS ON 52ND STREET BETWEEN FISHBURN AVENUE AND 52 PLACE AND 52 PLACE BETWEEN 52 STREET AND CUDAHY AVENUE
5. AN ORDINANCE OF THE CITY OF MAYWOOD AMENDING CHAPTER 7 OF TITLE 3 OF THE MAYWOOD MUNICIPAL CODE TO ESTABLISH THE CITY MANAGER'S AUTHORITY TO APPROVE CERTAIN CHANGE ORDERS FOR PUBLIC PROJECTS

IX. DISCUSSION/ACTION ITEMS

6. DISCUSSION AND DIRECTION REGARDING THE CITY'S ALLOCATION FROM THE AMERICAN RESCUE PLAN ACT OF 2021 (ARPA)

X. CLOSED SESSION

XI. PUBLIC PARTICIPATION (Non-Agenda Items; Time allotted: 3 minutes)

Speakers wishing to address the City Council on non- agenda item you may use the following:

Speakers wishing to address the City Council on a non- agenda item you may use the instructions provided in section **III. COVID - 19 MEETING PROCEDURES** on page 1 of this agenda.

If you want to comment during the public comment portion of the agenda, Press *9 on your phone or raise your hand in the zoom controls and we will select you from the meeting cue. NOTE: Your phone number will appear on the screen unless you first dial *67 before dialing the numbers as shown above.

- XII. ADJOURNMENT** - The next Regular Meeting of the Maywood City Council is September 8, 2021 at 7:00 p.m.

PUBLIC ACCESS TO MEETING AGENDA AND AGENDA PACKETS

I, _____, Flor Aguiluz, City Clerk or Shirley Quinones, Deputy City Clerk, hereby certify that this agenda was duly posted by law at 4319 E. Slauson Avenue, Maywood, CA 90270 and the City Website. Any public record, relating to an open session agenda item, that is distributed within 72 hours prior to the meeting is available for public inspection at the Maywood City Hall, 4319 E. Slauson Avenue, Maywood CA 90270. If you challenge in court any discussion or action taken concerning an item on this Agenda, you may be limited to rising only those issues you or someone else raised during the meeting or in written correspondence delivered to the City at or prior to the City's consideration of the item at the meeting. In compliance with the ADA, if you need special assistance for the meeting, call (323) 562-5723 within 72 hours prior to the meeting so the City can make reasonable arrangements to ensure accessibility.





AGENDA 1
ITEM NO. _____

MINUTES
REGULAR MEETING OF THE MAYWOOD CITY COUNCIL AND THE
SUCCESSOR AGENCY TO THE MAYWOOD COMMUNITY
REDEVELOPMENT AGENCY

WEDNESDAY, AUGUST 11, 2021 AT 7:00 PM

I. CALL TO ORDER/ROLL CALL

Mayor Lara called to order approximately at 7:03 p.m.

II. CITY OFFICIALS

MAYOR

Ricardo Lara (present)

CITY CLERK

Flor Aguiluz (teleconference)

MAYOR PRO TEM

Heber Marquez (present)

CITY TREASURER

Mary Mariscal (excused)

COUNCIL MEMBERS

Eduardo De La Riva (present)

Frank Garcia (teleconference)

Jessica Torres (teleconference)

CITY MANAGER

Jennifer E. Vasquez (present)

CITY ATTORNEY

Roxanne Diaz (teleconference)

STAFF PRESENT:

Hrant Manuelian, Finance Director (teleconference)

Steve Fowler, Director of Building and Planning (teleconference)

Shirley Quinones, Deputy City Clerk (present)

III. COVID-19 MEETING PROCEDURES

PUBLIC ADVISORY: THE CITY COUNCIL CHAMBERS WILL NOT BE OPEN TO THE PUBLIC PURSUANT TO GOVERNOR GAVIN NEWESOM'S EXECUTIVE ORDER N-29-20 THIS MEETING WAS HELD AS A TELECONFERENCE MEETING.

OBSERVERS WERE ABLE TO VIEW THE MEETING LIVESTREAMED VIA THE CITY'S FACEBOOK AT:
<https://www.facebook.com/cityofmaywood> OR BY ZOOM AT:

Teleconference 1-669-900-6833 Meeting ID: 823 7759 9302 Passcode:
461907 or <https://us02web.zoom.us/j/82377599302?pwd=cm5vMTVENVJPMTRqb2NSRldZZlBvQT09>

Comments may have been submitted via e-mail to shirley.quinones@cityofmaywood.org by 4:30 p.m. prior to the meeting and by teleconference any time prior to closure of the public comment portion of the item(s) under consideration.

IV. MAYOR, COUNCILMEMBERS AND STAFF COMMENTS

Mayor, Council Members and City Manager provided community updates.

V. PUBLIC PARTICIPATION (Agenda Items; Time allotted: 3 minutes)

The following spoke on Agenda items:

- 1) David Perez (submitted by teleconference)
- 2) People Exhibit 1 (submitted by teleconference)

VI. PRESENTATIONS

None

VII. PUBLIC HEARING

None

VIII. CONSENT CALENDAR

1. MINUTES OF JULY 28, 2021 CITY COUNCIL MEETING

Motion to approve the minutes of the July 28, 2021 City Council Meeting by De La Riva. Second by Garcia. AYES: De La Riva, Garcia, Torres, Marquez, Lara. PASSES

2. A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MAYWOOD AND SUCCESSOR AGENCY TO THE MAYWOOD COMMUNITY REDEVELOPMENT AGENCY APPROVING THE WARRANTS FOR PAYMENT

Motion to adopt Resolution No. 6192 of the City Council of the City of Maywood and Successor Agency to the Maywood Community Redevelopment Agency approving the Warrants for Payment by De La Riva. Second by Garcia. AYES: De La Riva, Garcia, Torres, Marquez, Lara. PASSES

3. CONSIDERATION OF AWARD OF PROFESSIONAL SERVICES AGREEMENT TO NCE FOR THE PREPARATION OF PAVEMENT MANAGEMENT PROGRAM (PMP) 2021 UPDATE

Motion to Award the Professional Services Agreement to NCE for the preparation of Pavement Management Program (PMP) 2021 Updates by De La Riva. Second by Garcia. AYES: De La Riva, Garcia, Torres, Marquez, Lara. PASSES

4. CONSIDERATION OF AN ORDINANCE OF THE CITY OF MAYWOOD AMENDING CHAPTER 7 OF TITLE 3 OF THE MAYWOOD MUNICIPAL CODE TO ESTABLISH THE CITY MANAGER'S AUTHORITY TO APPROVE CERTAIN CHANGE ORDERS FOR PUBLIC PROJECTS

Motion to approve First Reading of Ordinance of the City of Maywood amending Chapter 7 of Title 3 of the Maywood Municipal Code to establish the City Manager's Authority to Approve Certain Change Orders for Public Projects (Title read out by Legal Counsel) by De La Riva. Second by Garcia. AYES: De La Riva, Garcia, Torres, Marquez, Lara. PASSES

IX. DISCUSSION/ACTION ITEMS

None

X. CLOSED SESSION

Conference with Labor Negotiator pursuant to Government Code Section 54957.6; City Negotiator: Jennifer Vasquez, City Manager; Unrepresented Employees: Finance Director; Director of Building and Planning; Public Works-Part Time.

No Reportable Action

XI. PUBLIC PARTICIPATION (Non-Agenda Items; Time allotted: 3 minutes)

The following spoke on Non-Agenda items:

- 1) Eva Estrada (submitted by teleconference)
- 2) David Perez (submitted by teleconference)
- 3) People Exhibit 1 (submitted by teleconference)

XII. ADJOURNMENT

Meeting adjourned in memory of Sonia Felix at approximately 8:25 p.m. to the next meeting of the Maywood City Council, Wednesday, August 25, 2021 at 7:00 p.m.

Ricardo Lara, Mayor

ATTEST:

Flor Aguiluz, City Clerk

RESOLUTION NO. 6193

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF
MAYWOOD AND SUCCESSOR AGENCY TO THE MAYWOOD
COMMUNITY
REDEVELOPMENT AGENCY APPROVING THE WARRANTS FOR
PAYMENT**

WHEREAS, the following listed demands have been reviewed by the Director of Finance, and

WHEREAS, the Director of Finance has certified to the accuracy and availability of funds for payment thereof, and

WHEREAS, the register of audited demands is hereby submitted to the City Council of the City of Maywood and Successor Agency to the Maywood Community Redevelopment Agency for approval.

NOW, THEREFORE, BE IT RESOLVED, that the listed Warrants and Wire Transfers/Automated Clearing House (ACH) Transactions for \$821,172.97 are hereby ratified:

- Exhibit A – Summary of Warrants and Wire Transfers/ACH Transactions
- Exhibit B – Detail of Warrants

PASSED, APPROVED AND ADOPTED THIS 25th day of August, 2021.

Ricardo Lara, Mayor

ATTEST:

APPROVED AS TO FORM:

Flor Aguiluz, City Clerk

Roxanne Diaz, City Attorney

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES)
CITY OF MAYWOOD)

I, Flor Aguiluz, City Clerk of the City Council of the City of Maywood, do hereby certify that foregoing Resolution No.

6193 was duly passed and adopted by the City Council of the City of Maywood, at a regular meeting of the City Council held on the 25th day of August, 2021 by the following roll call vote, to wit:

AYES:

NAYES:

ABSENT:

ABSTAINED:

Flor Aguiluz, City Clerk

City of Maywood
Summary Warrants for Payment and Wire Transfers/ACH Transactions
Council Meeting Date
Wednesday, August 25, 2021

Accounts Payable

Amount

Accounts Payable prepaid warrants for payment: Checks No. 088775 - 088786	\$ 24,895.40
Accounts Payable regular warrants for payment: Checks No. 088787 - 088821	\$ 580,597.92
Sub-total	\$ 605,493.32

Wire Transfers/ACH Transactions

08/04/21 Payroll Pay Period - 7/18/2021 - 7/31/2021	\$ 42,261.26
08/04/21 CalPERS Employer Contribution - 7/18/2021 - 7/31/2021	\$ 6,718.55
08/04/21 8x8 Inc - Monthly Phone Maintenance	\$ 410.70
08/04/21 State Compensation Insurance Fund Policy FY 2021/2022 Surcharge	\$ 3,971.58
08/05/21 CalPERS Unfunded Liability Payment Plan - Safety & Misc. Employees	\$ 129,862.92
08/05/21 CalPERS Health Premium August 2021	\$ 31,593.57
08/13/21 US Bank Analysis Service Charge	\$ 861.07
Sub-total	\$ 215,679.65

Total Demands	\$ 821,172.97
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City of Maywood
Detail Warrants for Payment
Warrants No. 088775 to 088821

Check No.	Prepays	Date	Vendor Name	Check Amt	Transaction Description
088775	P	8/20/2021	AT&T	599.85	Elevator Emergency Phone Line 07/10/2021-08/09/2021
088776	P	8/20/2021	AT & T Long Distance	45.89	Elevator Emergency Line August 2021
088777	P	8/20/2021	Brinks, Inc.	163.09	August 2021 Cash Handling Services
088778	P	8/20/2021	CoreLogic Solutions, LLC.	150.00	Property Finder August 2021
088779	P	8/20/2021	Dewey Pest Control	137.00	August 2021 Pest Control City Hall
088780	P	8/20/2021	Maywood Car Wash	422.21	Maywood Car Gas July 2021
088781	P	8/20/2021	QDoxs	68.99	Copier Base Charge August 2021
088782	P	8/20/2021	Southern California Edison	22,335.25	Various Locations 06-24-2021 to 07-25-2021
088783	P	8/20/2021	The Gas Company	18.59	4317 Slauson Ave. 07/08/2021 - 08/06/2021
088784	P	8/20/2021	The Gas Company	14.30	4319 Slauson Ave. 07/08/2021 - 08/06/2021
088785	P	8/20/2021	Time Warner Cable	625.60	Internet & Phone Service August 2021
088786	P	8/20/2021	Xerox	314.63	July 2021 Base Charge and Printing Fee
088787		8/20/2021	Amazon Capital Services	745.22	Office Supplies
088788		8/20/2021	Bartel Associates, LLC	3,743.00	OPEB 06/30/2020-GASB 75 06/30/2021
088789		8/20/2021	California Department of Health Care Services	74.24	Settlement Claim GHC0022874 Ashley Gonzales
088790		8/20/2021	California Consulting, Inc.	3,500.00	Grant Writing Services: July 2021 and August 2021
088791		8/20/2021	Crosstown Electrical & Data, Inc.	4,047.29	Street Light Repairs
088792		8/20/2021	Daily Journal Corporation	985.00	Publication of Official Notices
088793		8/20/2021	Dave And Frank Automotive	184.07	Mount & Balance Tires
088794		8/20/2021	Elim HVAC	99.00	Air Conditioner Service Call YMCA
088795		8/20/2021	Gencore Management, Inc.	900.00	Settlement Claim GHC0022874 Ashley Gonzales
088796		8/20/2021	George Hill Company	1,179.00	City Claims/Adjuster July 2021
088797		8/20/2021	Gisselle Delgado	156.28	Reimbursement for excess PERS Contribution EE portion
088798		8/20/2021	Graffiti Protective Coatings	15,000.00	CityWide Graffiti Removal July 2021
088799		8/20/2021	HDL Coren & Cone	2,255.07	Property Tax Service: July 2021 - September 2021

City of Maywood
Detail Warrants for Payment
Warrants No. 088775 to 088821

Check No.	Prepays	Date	Vendor Name	Check Amt	Transaction Description
088800		8/20/2021	Interwest Consulting Group	20,083.95	Building & Safety Plan Review Services May and June 2021 Professional Services for Permit Technician Svs May and June 2021
088801		8/20/2021	Jose Ordaz	1,000.00	C & D Recycling Compliance Measure Deposit Return
088802		8/20/2021	Key Health Medical Solutions, Inc.	450.00	Settlement Claim GHC0022874 Ashley Gonzales
088803		8/20/2021	SPOILED	0.00	SPOILED
088804		8/20/2021	L.B. Johnson Hardware Co.	985.02	Public Works Supplies
088805		8/20/2021	Law Office of Blomberg, Benson & Garrett, Inc.	3,183.85	Settlement Claim GHC0022874 Ashley Gonzales
088806		8/20/2021	LGP Equipment Rentals	465.11	Public Works Equipment Rental
088807		8/20/2021	Luis M. Silva	50.66	Reimbursement for Excess PERS Contribution EE portion
088808		8/20/2021	Luisa A. Tercero, Guardian for Ashley Gonzales & Wells Fargo	4,216.91	Settlement Claim GHC0022874 Ashley Gonzales
088809		8/20/2021	Metro Transit Services	35,051.22	Public Transportation Services Express & Dial-A-Ride July 2021
088810		8/20/2021	Municipal Waste Solutions	1,947.50	Solid Waste Consulting July 2021
088811		8/20/2021	North Star Landcare	3,872.00	Palm Removals on 4035 E. 58th Street
088812		8/20/2021	Office Team	3,432.00	Building and Planning Temp
088813		8/20/2021	Onyx Paving Company Inc	46,488.50	CIP Pavement Rehab Project FY 19-20
088814		8/20/2021	Orangelina Development Authority	481.63	Special Assessment West Santa Ana Branch EIR/EIS Env. Planner
088815		8/20/2021	Petty Cash	168.49	Petty Cash Reimbursement
088816		8/20/2021	Los Angeles County Department of Public Health	1,020.00	Maywood Swimming Pool Permit FY 2021-2022
088817		8/20/2021	Sheriff's Department	422,732.37	Public Safety Services June 2021
088818		8/20/2021	Southern California Sports Rehabilitation, Inc.	1,175.00	Settlement Claim GHC0022874 Ashley Gonzales
088819		8/20/2021	Staples Business Advantage	685.24	Office Supplies
088820		8/20/2021	The Home Depot Pro	140.30	Janitorial Supplies
088821		8/20/2021	Vaca Tires	100.00	City Fleet Vehicles PW Truck Tires

TOTAL:

\$605,493.32

AGENDA REPORT

CITY OF MAYWOOD



AGENDA ITEM NO. 3.

DATE: August 25, 2021

TO: HONORABLE MAYOR AND MEMBERS OF THE CITY COUNCIL

FROM: JENNIFER VASQUEZ, CITY MANAGER

BY: HRANT MANUELIAN, FINANCE DIRECTOR

SUBJECT: REVENUE REPORT FOR JULY 2021

RECOMMENDATION:

Staff recommends that the City Council receive and file the Revenue Report for July 2021.

BACKGROUND:

In an effort to maintain transparency, the City's Finance Department prepares a monthly Revenue report for the City Council's review. The Revenue Report is a tool used by the Council to monitor and oversee the financial health of the City.

DISCUSSION:

The attached analysis (see Attachment 1) compares prior YTD and current YTD Revenue

The total revenue received for July 2021 totaled \$5,138,400.70 which is 188.01% higher than the same period last year.

- **GENERAL FUND** - The total General Fund received totaled \$704,956.87 which is a slight increase of .49% compared to the same period last year.
- **SPECIAL REVENUE FUND** - The total Special Revenue Fund received totaled \$4,433,443.83 which is 309.51% higher than the same period last year. The contributing factor for the difference in Special Revenue Fund is due to the payment of \$3,226,257 received from the American Rescue Plan Act. This was the first of two payments that the City will receive. The second payment is scheduled to be released in 12 months for a total of \$6,452,514. These Funds support cities in mitigating the fiscal effects stemming from the public health emergency caused by COVID-19. The funds must be spent by 12/31/2026 on items related to the COVID-19 pandemic.

LEGAL REVIEW:

The City Attorney has reviewed this report.

FISCAL IMPACT:

There is no fiscal impact associated with this item.

ATTACHMENT(S)

1. July 2021 - City of Maywood FY2021-22

	C - Prior Fiscal Year to Date Revenue	B - Current Fiscal Year to Date Revenue	D - Current YTD versus Prior YTD \$ Difference	E - Current YTD Prior YTD % Difference	G - Adopted Budget FY 2021-22	H - % of FY 2021-2022 YTD Revenue Received
			(C minus B)	(C divided by B minus 1)		(C divided by G)
GENERAL FUND						
Taxes: TAXES: A tax is a compulsory monetary contribution to the City's revenue, assessed and imposed by the City on the activities, expenditure, income, occupation, privilege, property, etc., of individuals and organizations.						
Franchise & Collectors Fee			\$0.00	0.00%	\$325,000.00	0.00%
Property Taxes	\$193,200.51	\$219,310.97	\$26,110.46	13.51%	\$778,480.00	28.17%
Utility Users Tax			\$0.00	0.00%	\$900,000.00	0.00%
Transfer Tax (Real Estate)			\$0.00	0.00%	\$20,000.00	0.00%
Transient Occupancy Tax			\$0.00	0.00%	\$60,000.00	0.00%
Cannabis Sales Tax			\$0.00	0.00%	\$3,000,000.00	0.00%
Sales Tax Revenue			\$0.00	0.00%	\$2,355,904.00	0.00%
Taxes Totals	\$193,200.51	\$219,310.97	\$26,110.46	13.51%	\$7,439,384.00	2.95%
GENERAL FUND						
Licenses & Permits: FEES: A fee is a charge imposed on an individual for a service that the person chooses to receive. A fee may not exceed the estimated reasonable cost of providing the particular service or product for which the fee is charged, plus overhead. Fees are charged for specific services, and fee revenue may fund only those services and related expenses. LICENSES and PERMITS are types of fees allowing for the operation within the City.						
Compliance Program Fee			\$0.00	0.00%	\$45,000.00	0.00%
Residential & Building Permits	\$649.80	\$878.42	\$228.62	35.18%	\$29,500.00	2.98%
Public Works Permit Fees	\$15,800.50	\$16,664.00	\$863.50	5.47%	\$50,000.00	33.33%
Other Fees & Permits	\$1,725.24	\$1,445.80	(\$279.44)	-16.20%	\$27,100.00	5.34%
Occupancy Permits	\$1,165.60	\$2,957.80	\$1,792.20	153.76%	\$13,000.00	22.75%
Building Permits	\$1,270.38	\$1,830.03	\$559.65	44.05%	\$60,000.00	3.05%
Compliance and Review Fees - Cannabis			\$0.00	0.00%	\$105,000.00	0.00%
Parking Permits	\$275.00	\$60.00	(\$215.00)	-78.18%	\$90,000.00	0.07%
Apartment License	\$75.00	\$10.00	(\$65.00)	-86.67%	\$20,000.00	0.05%
Business License	\$1,408.00	\$3,146.00	\$1,738.00	123.44%	\$190,000.00	1.66%
Vehicle License Fee - LA County			\$0.00	0.00%	\$3,173,048.00	0.00%
Licenses and Permits Totals	\$22,369.52	\$26,992.05	\$4,622.53	20.66%	\$3,802,648.00	0.71%
GENERAL FUND						
Charges for Services: CHARGES FOR SERVICES: Charges to cover administrative costs for the provision of services.						
Rubbish Assessment			\$0.00	0.00%	\$15,000.00	0.00%

	C - Prior Fiscal Year to Date Revenue	B - Current Fiscal Year to Date Revenue	D - Current YTD versus Prior YTD \$ Difference	E - Current YTD Prior YTD % Difference	G - Adopted Budget FY 2021-22	H - % of FY 2021-2022 YTD Revenue Received
			(C minus B)	(C divided by B minus 1)		(C divided by G)
Plan Check Fees	\$3,078.92	\$2,235.23	(\$843.69)	-27.40%	\$45,000.00	4.97%
Rents & Concessions	\$1,984.50	\$1,984.50	\$0.00	0.00%	\$24,000.00	8.27%
Charges for Services Totals	\$5,063.42	\$4,219.73	(\$843.69)	-16.66%	\$84,000.00	5.02%
GENERAL FUND						
FINES AND FORFEITURES: Penalties imposed by the City in the form of money or goods for a violation of an ordinance, law, regulation or rule.						
Fines and Forfeitures:						
Penalties: Apt & Bus License	\$109.75		(\$109.75)	-100.00%	\$2,500.00	0.00%
SEMC: Court Collections (DMV)			\$0.00	0.00%	\$15,000.00	0.00%
Administrative Citations	\$2,200.00	\$100.00	(\$2,100.00)	-95.45%	\$100,000.00	0.10%
Parking Fines	\$192.00	\$2,082.00	\$1,890.00	984.38%	\$150,000.00	1.39%
Fines and Forfeitures Totals	\$2,501.75	\$2,182.00	(\$319.75)	-12.78%	\$267,500.00	0.82%
GENERAL FUND						
LEASES AND CONCESSIONS: A rent or lease or payment for the use of a the City's property.						
Leases and Concessions:						
Leased Property Rental Income	\$1,500.00	\$1,500.00	\$0.00	0.00%	\$39,345.00	3.81%
Leases and Concessions Totals	\$1,500.00	\$1,500.00	\$0.00	0.00%	\$39,345.00	3.81%
GENERAL FUND						
MISCELLANEOUS: A General Fund revenue not covered in another revenue category.						
Miscellaneous:						
Good Corporate Citizen Program			\$0.00	0.00%	\$40,000.00	0.00%
Interest Income			\$0.00	0.00%	\$16,500.00	0.00%
Miscellaneous Revenue	\$4,225.00		(\$4,225.00)	-100.00%	\$17,000.00	0.00%
CARES Act Reimbursement	\$57,422.00		(\$57,422.00)	-100.00%	\$0.00	0.00%
Other (Recycle + ABx1 Reimbursement)			\$0.00	0.00%	\$0.00	0.00%
Miscellaneous Revenue Totals	\$61,647.00	\$0.00	(\$61,647.00)	-100.00%	\$73,500.00	0.00%
GENERAL FUND						
RETIREE PENSION LEVY: An amount of revenue from the property tax levy approved by the voters for the purpose of paying the cost to the City of the Public Employees Retirement System (PERS).						
Retiree Pension Levy:						
Retiree Pension Levy	\$415,217.46	\$450,752.12	\$35,534.66	8.56%	\$1,158,911.00	38.89%
Retiree Pension Levy Totals	\$415,217.46	\$450,752.12	\$35,534.66	8.56%	\$1,158,911.00	38.89%
General Fund Revenue Totals	\$701,499.66	\$704,956.87	\$3,457.21	0.49%	\$12,865,288.00	5.48%
SPECIAL REVENUE FUND						
SPECIAL REVENUE FUND: Collections of revenues in special funds that must be used for the established purposes of the funds to provide an extra level of accountability and transparency.						
Gas Tax	\$58,011.38	\$72,208.67	\$14,197.29	24.47%	\$672,770.00	10.73%
Transportation Development Act (TDA)			\$0.00	0.00%	\$20,448.00	0.00%
Bikeway						
Proposition A	\$51,317.71	\$69,653.92	\$18,336.21	35.73%	\$563,507.00	12.36%
Proposition C	\$42,566.64	\$57,776.09	\$15,209.45	35.73%	\$467,414.00	12.36%
Measure R	\$31,935.80	\$43,292.56	\$11,356.76	35.56%	\$350,561.00	12.35%
Measure M	\$36,227.18	\$48,910.59	\$12,683.41	35.01%	\$397,302.00	12.31%
Senate Bill 1 (SB 1)			\$0.00	0.00%	\$536,044.00	0.00%

	C - Prior Fiscal Year to Date Revenue	B - Current Fiscal Year to Date Revenue	D - Current YTD versus Prior YTD \$ Difference	E - Current YTD Prior YTD % Difference	G - Adopted Budget FY 2021-22	H - % of FY 2021-2022 YTD Revenue Received
			(C minus B)	(C divided by B minus 1)		(C divided by G)
Community Development Block Grant (CDBG)			\$0.00	0.00%	\$718,020.00	0.00%
Air Quality Management District (AQMD) Grant			\$0.00	0.00%	\$36,375.00	0.00%
Supplemental Law Enforcement Services Fund (SLESF) Grant			\$0.00	0.00%	\$155,000.00	0.00%
Measure A			\$0.00	0.00%	\$353,000.00	0.00%
Lighting & Landscaping			\$0.00	0.00%	\$189,000.00	0.00%
Successor Agency Trust Fund - City of Maywood serves as the Successor Agency to the Maywood Redevelopment Agency	\$862,558.00	\$915,345.00	\$52,787.00	6.12%	\$1,226,567.00	74.63%
Sewer Fund			\$0.00	0.00%	\$299,000.00	0.00%
Grant/Reimb (Fed/State/County)			\$0.00	0.00%	\$531,000.00	0.00%
Local Fiscal Recovery Fund		\$3,226,257.00	\$3,226,257.00	0.00%	\$0.00	0.00%
Special Revenue Totals	\$1,082,616.71	\$4,433,443.83	\$3,350,827.12	309.51%	\$6,516,008.00	68.04%
Total Revenues	\$1,784,116.37	\$5,138,400.70	\$3,354,284.33	188.01%	\$19,381,296.00	26.51%

AGENDA REPORT

CITY OF MAYWOOD



AGENDA ITEM NO. 4.

DATE: August 25, 2021

TO: HONORABLE MAYOR AND MEMBERS OF THE CITY COUNCIL

FROM: JENNIFER VASQUEZ, CITY MANAGER

BY: MOHAMMAD MOSTAHKAMI, PE

SUBJECT: AUTHORIZATION FOR RELEASE OF REQUEST FOR PROPOSAL (RFP) FOR ENGINEERING AND DESIGN SERVICES FOR SEWER IMPROVEMENTS ON 52ND STREET BETWEEN FISHBURN AVENUE AND 52 PLACE AND 52 PLACE BETWEEN 52 STREET AND CUDAHY AVENUE

RECOMMENDATION:

Staff recommends that City Council Authorize Release of RFP for Engineering Services For Sewer Improvements on 52nd Street Between Fishburn Avenue and 52 Place and 52 Place between 52nd Street and Cudahy Avenue Project

BACKGROUND:

In 2008, the City completed a Sanitary Sewer Master Plan which included a capacity evaluation and identified capacity-related improvement projects. The Master plan consisted of data collection and mapping, modeling of the system and the development of a Capital Improvements Program (CIP). The City Sewer Master Plan covered the City's sewer system consisting of 122,911 linear feet of gravity sewer mains, ranging in size from 6 to 21 inches in diameter.

One of the objectives of the 2008 Sanitary Sewer Master Plan was to construct a hydraulic model to determine whether or not capacity of the system is adequate to handle the dry and wet weather flows. Additionally, a total of 109,159 linear feet of sewer lines were televised (CCTV), reviewed and analyzed for structural defects. Sewer pipes that were found to be structurally deficient were recommended for replacement or repair and included in the recommended capital improvement plan.

Based on the result of the hydraulic modeling study, a total of 192 sewer pipes were identified as hydraulically deficient with an estimated capacity improvement cost of \$11,697,165. Additionally, a total of 115 sewer pipes were found to be structurally deficient through CCTV review with a total estimated improvement cost of \$5,683,785, bringing the total cost of all sewer pipes recommended for repairs and/or replacement to \$17,380,950. To date, several sewer repairs and improvements have been completed.

DISCUSSION:

In July 2018, in order for the City to update its Sewer System Management Plan (SSMP) and to meet the requirements of the State Water Resources Control Board, Psomas consulting was retained to conduct hydraulic modeling and flow monitoring during wet and dry weather and capacity analysis of the City's sewer system. Based on the result of their study, Psomas released a technical memorandum identifying several sewer mains in need of upgrade and/or replacement. In May 2020, the study was fully completed. A copy of

the Technical Memorandum listing recommended sewer improvements is attached.

One of the recommended improvements involves the replacement of an approximately 1,415 feet of existing 8-inch sewer main to a 10-inch sewer main on 52nd Street between Fishburn Avenue and 52 Place and 52 Place between 52nd Street and Cudahy Avenue.

The attached RFP is seeking a professional Engineering Consultant to prepare design plans, specifications and engineer estimates for the 52nd Street/ 52 Place sewer improvement project.

Staff recommends release of the RFP for retaining an Engineering consultant for the subject project

LEGAL REVIEW:

The City Attorney has reviewed this report.

FISCAL IMPACT:

There is no fiscal impact associated with the release of this RFP. However, this project will be funded with Sewer Assessment proceeds once a vendor is selected and a contract executed. This project was approved in the FY 2021/2022 Capital Improvement Program.

ATTACHMENT(S)

1. MAY 2020 TECHNICAL MEMORANDUM
2. RFP FOR DESIGN ENGINEERING SERVICES MAYWOOD 52ND STREET SEWER IMPROVEMENTS
8-16-21

TECHNICAL MEMORANDUM

To: Kevin Ko, P.E.
 From: Mike Swan, P.E.
 Date: May 18, 2020
 Subject: City of Maywood – Wet Weather Sewer Flow Monitoring and Model Calibration



Introduction

The purpose of this memorandum is to document the sewer model calibration and subsequent analysis of the City of Maywood's sewer system based on wet weather flow monitoring data collected by ADS from December 20, 2019 to January 16, 2020.

The Maywood sewer system discharges primarily to two Los Angeles County Sanitation District (LACSD) trunk sewer lines with a small area discharging to the City of Bell. The major LACSD trunk line collecting sewage from the western portion of the City is the Wright Road Trunk that flows south in Atlantic Blvd. This trunk sewer also collects sewage from the City of Vernon at its upstream terminus near the Maywood/Vernon boundary. Most of the eastern portion of the City discharges to LACSD's Wilcox Avenue Trunk Sewer at that trunk sewer's upstream terminus at Alamo Avenue and Randolph Street. A small portion of the City sewer system, on the eastern edge, discharges directly to the City of Bell collection system at Walker Avenue. Figure 1 shows various tributary sub-basins color coded with five basins in the City labeled Basin 1 through 5. In addition, there are two City of Vernon basins labeled Vernon 2 and Vernon 4. Maywood Basins 1 and 2 and Vernon 2 are tributary to the Wright Road Trunk in Atlantic Blvd, Maywood Basins 3 and 4 and Vernon 4 are tributary to the Wilcox Avenue Trunk on Alamo Avenue, and Basin 5 is tributary to the City of Bell at Walker Avenue.

Dry weather flow model calibration was previously completed using flow monitoring conducted by ADS at four locations from May 8 to May 24, 2019 and documented in a technical memorandum dated June 26, 2019. Flow monitoring data was collected at MH 972 on the Wright Road Trunk and at MH 1185 on the Wilcox Avenue Trunk. A monitoring site was also located to collect data for Vernon 2 where it enters the LACSD Wright Road Trunk and along East 53rd Street (MH 390) which collects sewage from a tributary area that is almost entirely residential land use. A summary of the average and peak flows for the May 2019 monitoring is shown on Table 1.

TABLE 1 - FLOW MONITORING DATA SUMMARY

May 2019 FM Data (MGD)	ADWF	PDWF	Peak to Avg
MH 972 (Basin 2 & Vernon 2)	1.08	1.85	1.71
MH 1185 (Basin 3, 4 & Vernon 4)	0.53	0.91	1.72
Vernon 2	0.41	1.12	2.76
MH 390 (East 53 rd Street)	0.09	0.18	2.14

Winter Flow Monitoring Data

Winter flow monitoring was conducted at these same four locations for a 28-day period from December 20, 2019 through January 16, 2020 in hopes of capturing a significant rainfall event. During this period, two rainfall events occurred, the first beginning on December 22nd and the second beginning on December 25th. Based on NOAA statistics in the area, the first storm event was about a 1-year storm (1-year return period or occurs once a year on average) with a 6-hour duration. The second storm, starting on December 25th at around 9 p.m., was about a 10-year storm with a 6-hour duration. This represents a significant event with a 10-year return period or occurring once every 10 years on average. Peak flows for both of these storms occurred overnight during normally minimum dry weather flow periods. The December 25th storm was also on a holiday which can alter the typical flow pattern. The plot of both rainfall events compared to storm return periods is shown on Figure 2.

The winter flow monitoring report by ADS is attached along with plots of the storm events. Plotting the rainfall event with the flow monitoring data shows a quick response of sewer flow to storm water flow (Figure 3). The pipeline flow rate at each monitoring location peaks and dissipates quickly. This implies much more inflow to the system through manholes or illegal drain connections as opposed to infiltration from the soil into the pipelines (i.e. at pipe joints or cracks).

A 10-year storm event is considered sufficient for the sewer capacity analysis of wet weather conditions, therefore, the model was calibrated to the December 25th flow data. Table 2 shows a summary of the winter flow monitoring data. The average dry weather flow (ADWF) and peak dry weather flow (PDWF) was calculated for the winter monitoring data, as was the peak wet weather flow (PWWF). In comparing to Table 1, the winter PDWF was slightly lower than the PDWF from the May 2019 monitoring data. The dry weather flow model calibration to the May data was not changed, adding a level of conservativeness.

TABLE 2 - WINTER FLOW MONITORING DATA SUMMARY

Dec 2019 FM Data (MGD)	ADWF	PDWF	Peak Dry to Average	PWWF	Peak Wet to Average
MH 972 (Basin 2 & Vernon 2)	0.95	1.75	1.85	4.32	4.57
MH 1185 (Basin 3, 4 & Vernon 4)	0.46	0.77	1.66	1.75	3.78
Vernon 2	0.29	0.73	2.51	1.00	3.42
MH 390 (East 53 rd Street)	0.09	0.17	1.89	0.50	5.50

Wet Weather Flow Model Updates

The peak storm flow rate (excluding the dry weather sewer flow) was estimated by subtracting the minimum dry weather flow from the PWWF. This peak storm flow rate was applied on a prorated basis to each manhole in the model based on the surface area tributary to the manhole. The total peak storm flow was calculated to equal approximately 5.59 MGD with 4.04 MGD discharging to the Wright Road Trunk and 1.55 MGD discharging to the Wilcox Avenue Trunk. These quantities were placed in the model to match the total storm outflow for each tributary area.

The sewer model maintained the dry weather flow factors that were developed using the May 2019 flow monitoring data. The model was updated with the peak storm flow measured for the larger December 25th, 10-year event. To evaluate the capacity of the sewer system under wet weather conditions, the calculated storm flow was added to the peak dry weather flow. The actual storm event occurred overnight, however, the peak wet weather simulation assumes that the same storm occurs coincidental to peak flow conditions (worst case scenario).

Simulations were run utilizing the calibrated dry weather peak flow and the 10-year storm event. Sewer model output for simulated PWWF is included in Appendix C along with the corresponding model sewer map showing manhole numbers. Pipelines depth to diameter (d/D) ratios at or above 0.75 under peak wet weather conditions are indicated on Figure 4. Under PWWF conditions, a d/D at or below 0.90 is considered adequate for existing pipelines. There are thirteen pipelines with a modeled d/D above 0.90 and all thirteen reaches are full with a d/D equal to 1.0. These pipelines are shown in Table 3 along with the amount of surcharged flow in each pipeline.

Table 3 – Modeled PWWF Deficient Pipelines

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	PWWF (gpd)	PWWF d/D	Surcharge Flow (gpm)
GM-56	M-130	M-139	8	340.1	0.003	343	1.00	35
GM-109	M-392	M-162	8	276.0	0.003	335	1.00	29
GM-123	M-73	M-74	8	340.0	0.003	356	1.00	56
GM-124	M-74	M-167	8	341.0	0.003	372	1.00	63
GM-125	M-167	M-168	8	236.8	0.003	386	1.00	70
GM-126	M-168	M-410	8	348.0	0.003	393	1.00	109
GM-305	M-346	M-345	10	213.0	0.003	598	1.00	58
GM-308	M-204	M-347	10	282.2	0.003	581	1.00	77
GM-372	M-312	M-305	15	339.2	0.001	1,135	1.00	131
GM-373	M-305	M-306	15	347.3	0.001	1,153	1.00	147
GM-437	M-344	M-415	10	30.0	0.003	631	1.00	59
GM-438	M-415	M-343	15	32.0	-0.001	721	1.00	721
GM-462	M-451	M-452	8	87.0	0.000	84	1.00	84

One of the full pipeline segments (GM-462) is 8-inch diameter and approximately 87 feet long within Maywood Park. This sewer was relocated to make way for the construction of a swimming pool in the park with zero slope. Another pipeline (GM-438) is a short reach, approximately 30 feet, of 15-inch pipeline in Alamo Avenue just south of Slauson Avenue with an adverse slope. These two pipelines were the only deficiencies identified in the previous dry weather flow analysis.

Recommendations

Based on the above, the following improvements/actions are recommended with improvement areas identified on Figure 5 and Table 4:

1. Replace pipeline segments in Alamo Avenue from 52nd Place (MH-345) to the south side of Slauson Avenue (MH-343), which totals approximately 245 linear feet (Improvement #4 on Figure 5). By raising the invert elevations of two manholes near the intersection of Slauson Avenue (MH-344 and MH-415) slightly, a slope of approximately 0.0125 can be attained for this reach and the inflow inverts at these two manholes (MH-344 from the east and MH-415 from the west) will still come into these manholes above the out inverts. This will eliminate the adverse slope of the pipe segment GM-438 between MH-415 and MH-343.
2. Conduct further research on the sewer segment that was constructed around the swimming pool in Maywood Park and develop alternative design options to correct this deficiency. These manholes were included in the survey conducted by Psomas in April 2019. One potential solution might be to construct a new line from MH-199 down Heliotrope Avenue to Slauson Avenue, also collecting flow from the sewer in 58th Street (Improvement #6 on Figure 5). The line through the park could then be abandoned at least to the downstream end of the swimming pool, assuming no laterals are connected. If there are laterals connected in the reach upstream of the swimming pool, they could likely be re-routed to the new line in Heliotrope.
3. Replace other wet weather deficient pipeline segments as shown on Figure 5 and in Table 4. Pipelines downstream of improved deficient reaches were also identified to be upsized to match the upstream diameter. These pipeline segments are shown in orange on Figure 5 and highlighted orange in Table 4. In this manner there won't be a larger diameter sewer segment discharging to a smaller diameter sewer. Most of the improvement pipeline rim and invert elevations were included in the April 2019 survey, so the slopes in the model are accurate. Figure 6 shows the various sources of pipeline data including surveyed manholes. Improvement #7 on Figure 5 and Table 4 may be avoided if flows are divereted away from Maywood Park down Heliotripe to Slauson as described above (Improvement #6).
4. Continue to rehabilitate the sewer collection system including segment replacements, lining and point repairs, which will reduce infiltration. Consider checking CCTV files for illegal drain connections and based on these checks, consider smoke testing in certain areas and take appropriate action to eliminate any illegal drain connections discovered, which will reduce inflow.

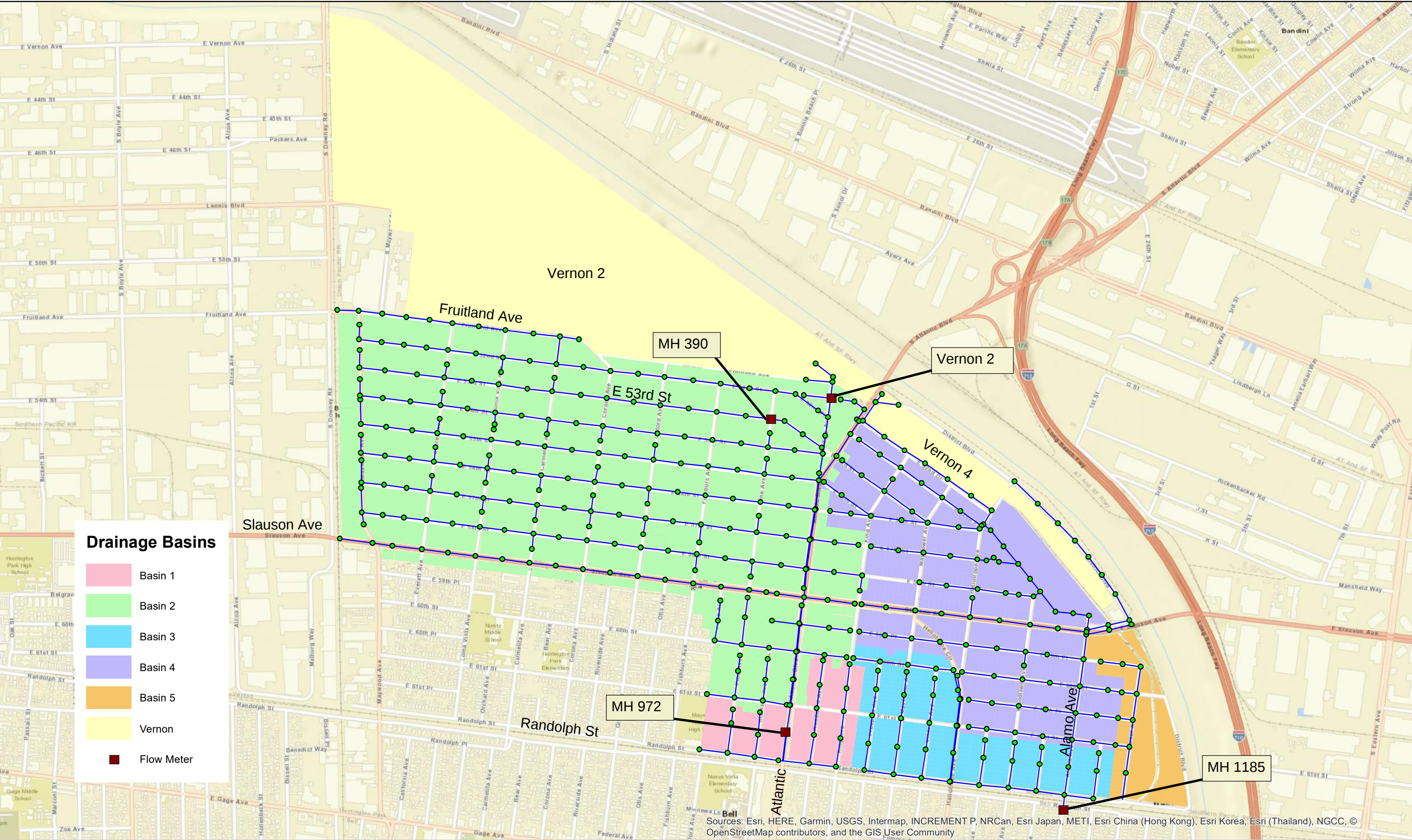
Table 4 – Recommended Pipeline Improvements

CIP #	Location	ID	From ID	To ID	Existing Diameter (in)	New Diameter (in)	Length (ft)
1	52nd Street - Fishburn to Cudahy	GM-123	M-73	M-74	8	10	340
		GM-124	M-74	M-167	8	10	341
		GM-125	M-167	M-168	8	10	237
		GM-126	M-168	M-410	8	10	348
		GM-122	M-410	M-164	8	10	147
2	53rd Street - West of Cudahy	GM-109	M-392	M-162	8	10	276
		GM-394	M-162	M-161	8	10	83
3	56th Street - Pine to Atlantic	GM-56	M-130	M-139	8	10	340
		GM-56	M-139	M-140	8	10	335
4	Alamo - 52nd Place to South of Slauson	GM-306	M-345	M-344	10	12	181
		GM-437	M-344	M-415	10	12	30
		GM-438	M-415	M-343	15	15	32
5	Alamo - 61st to Randolph	GM-372	M-312	M-305	15	18	339
		GM-373	M-305	M-306	15	18	347
6	Maywood Park	New Pipeline in Heliotrope - 57th to Slauson				8	475
	Avoided with Maywood Park Diversion						
7	E. 52nd Place - Woodlawn to Alamo	GM-308	M-204	M-347	10	12	282
		GM-304	M-347	M-346	10	12	212
		GM-305	M-346	M-345	10	12	213

Note: Orange highlighted pipes are not deficient but adjacent to or downstream of deficient pipes.

Pipeline Diameter	Total Length
8-inch	475'
10-inch	2,447'
12-inch	919'
15-inch	32'
18-inch	687'

Attachments: Figures 1 through 6, Junction Map (Manhole Numbers) with PWWF Model Output, and ADS Winter 2019/20 Flow Monitoring Report



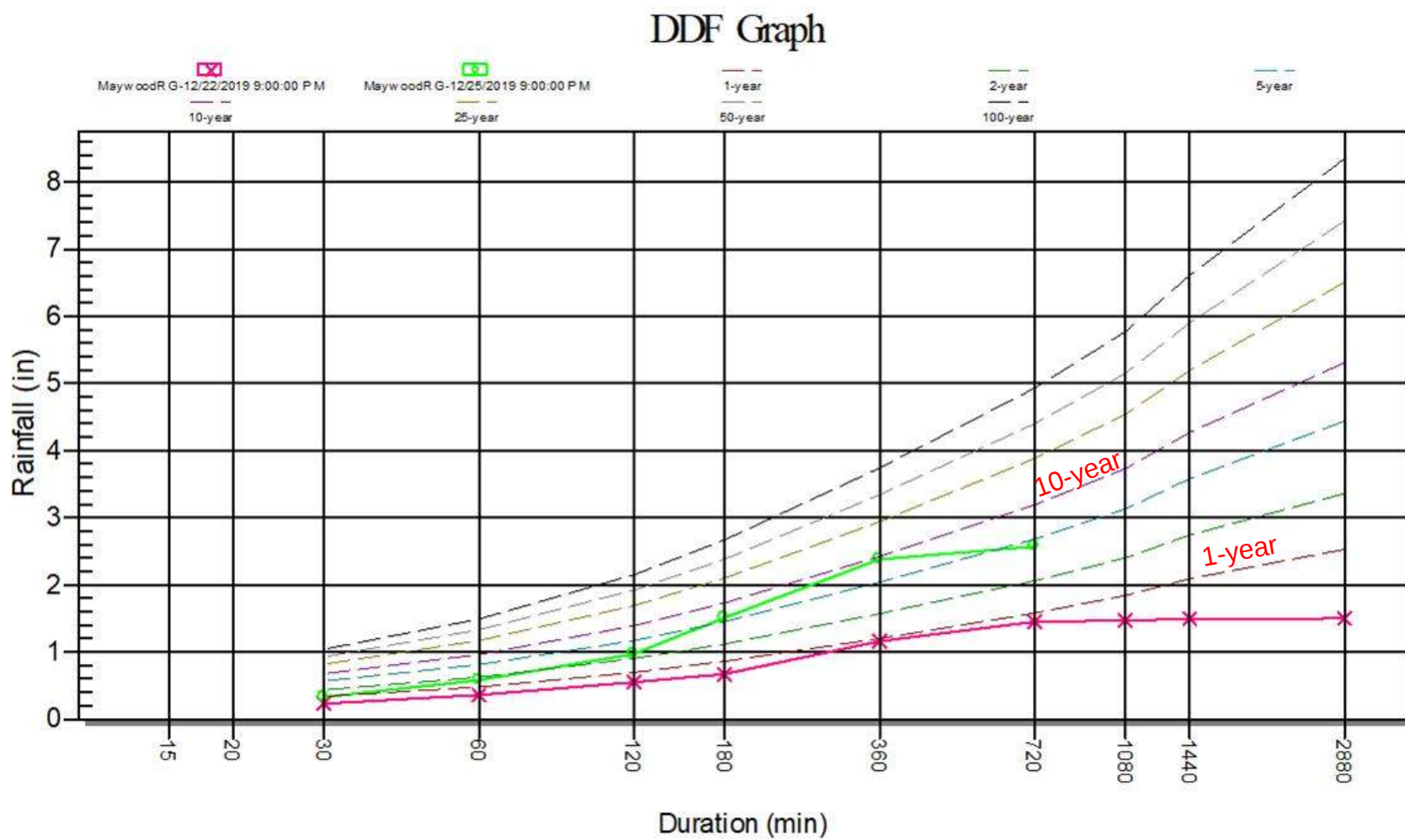


Figure 2
Winter Flow Monitoring Rainfall Events

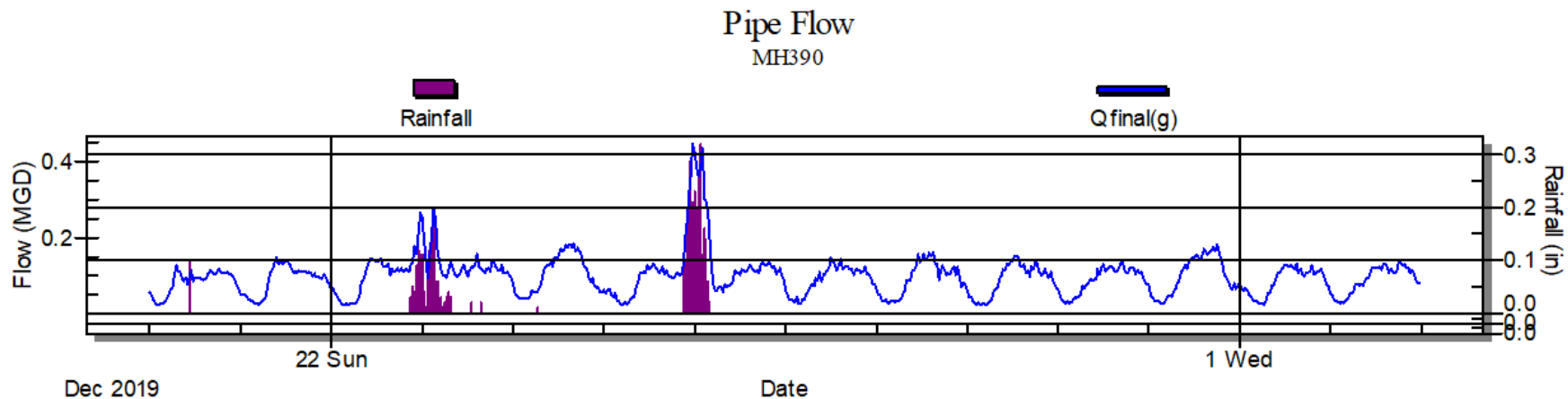
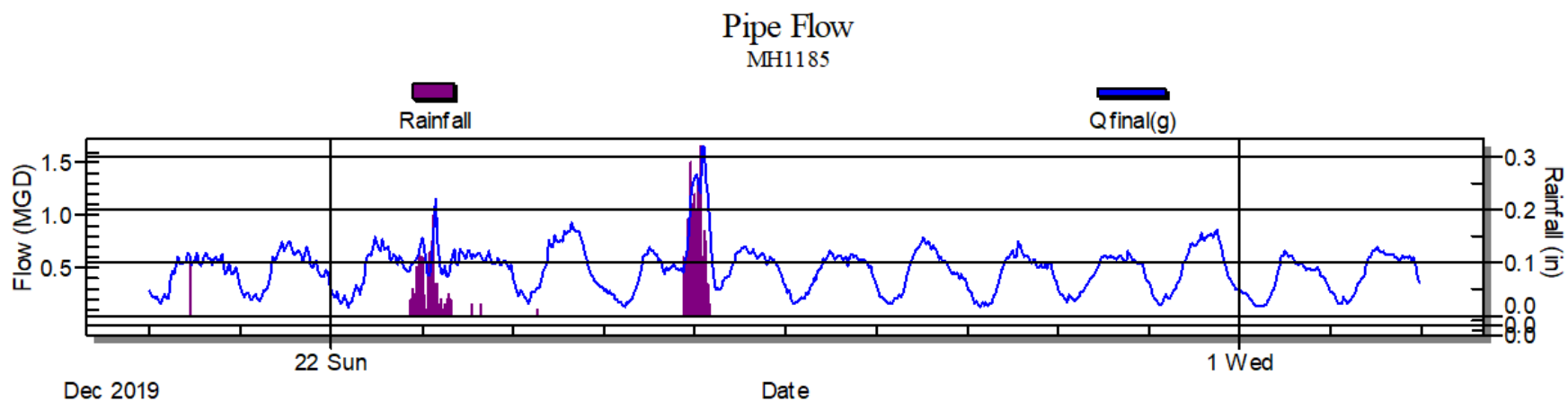


Figure 3
Winter Flow Monitoring
Pipeline Flow and Rainfall Events
Page 27 of 116

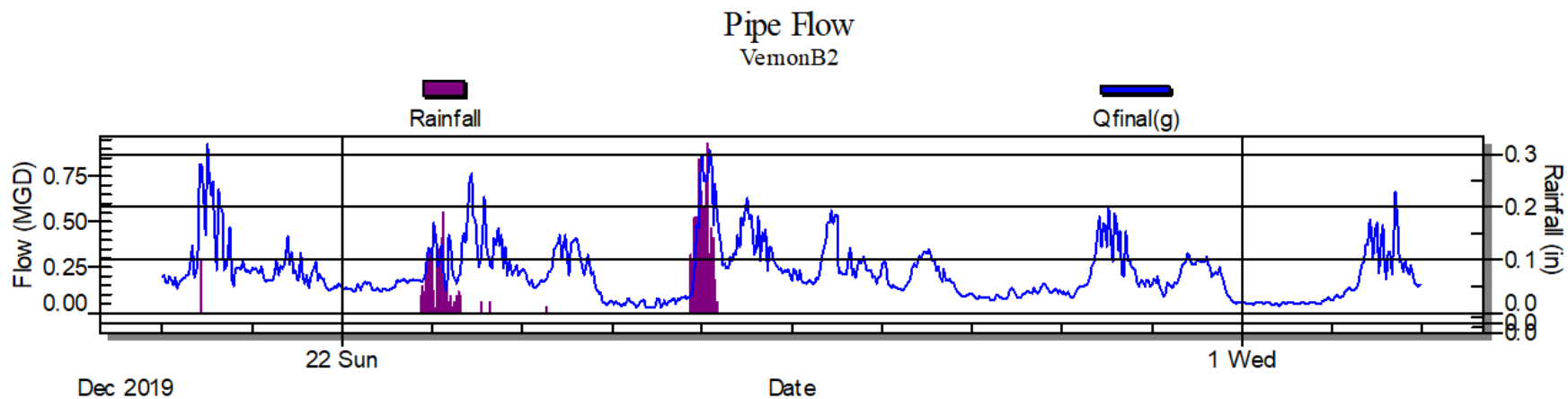
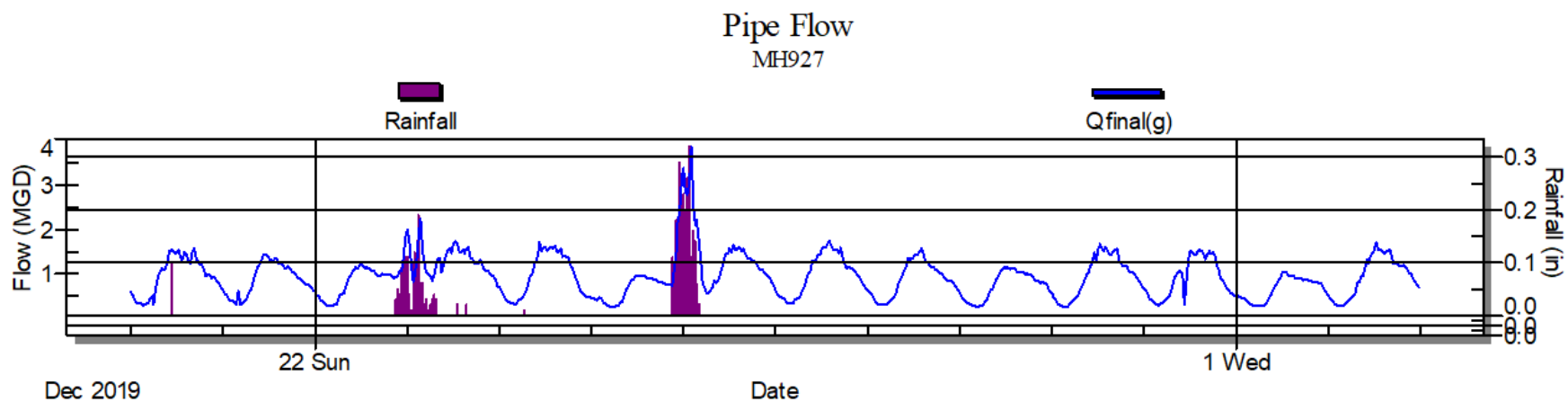
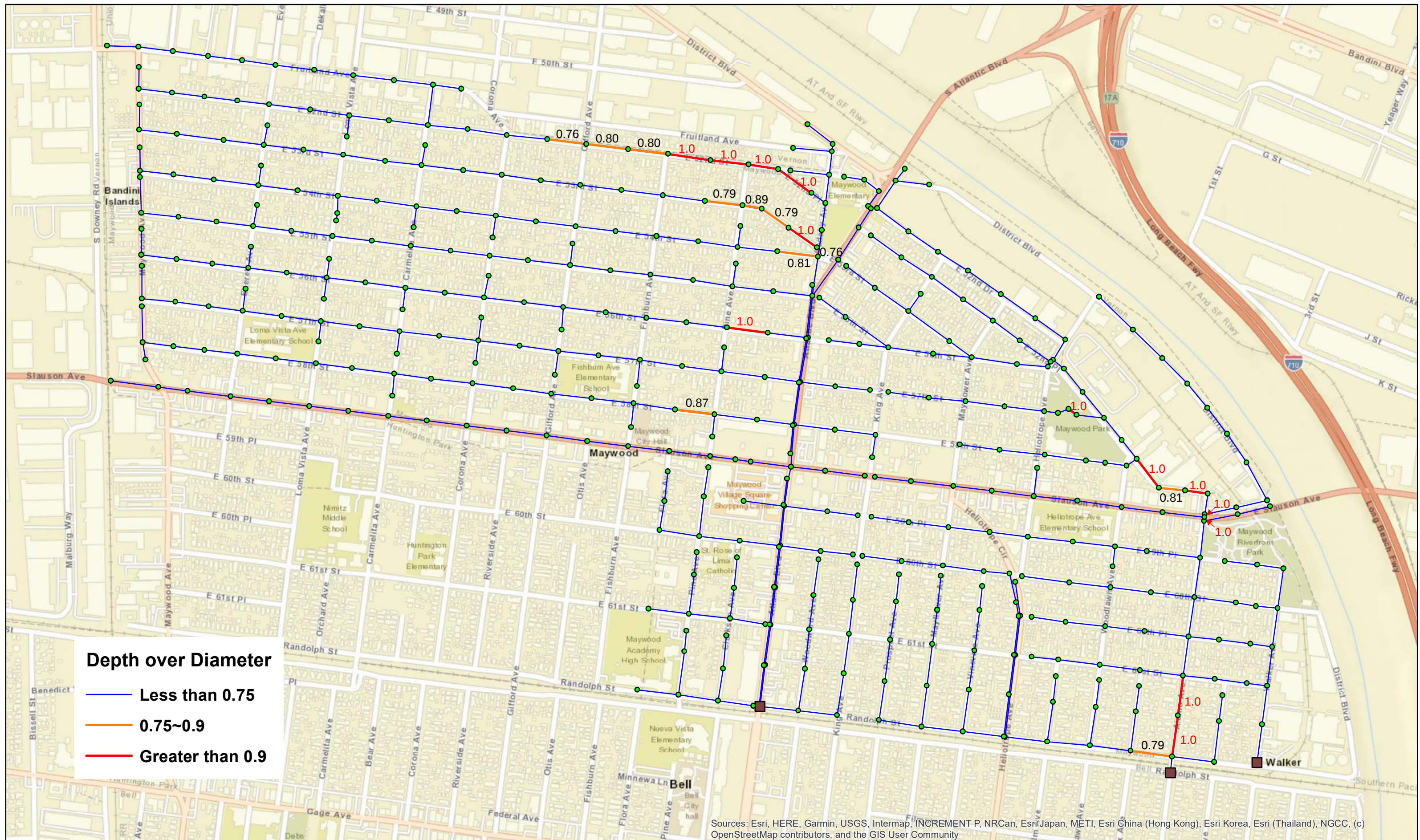
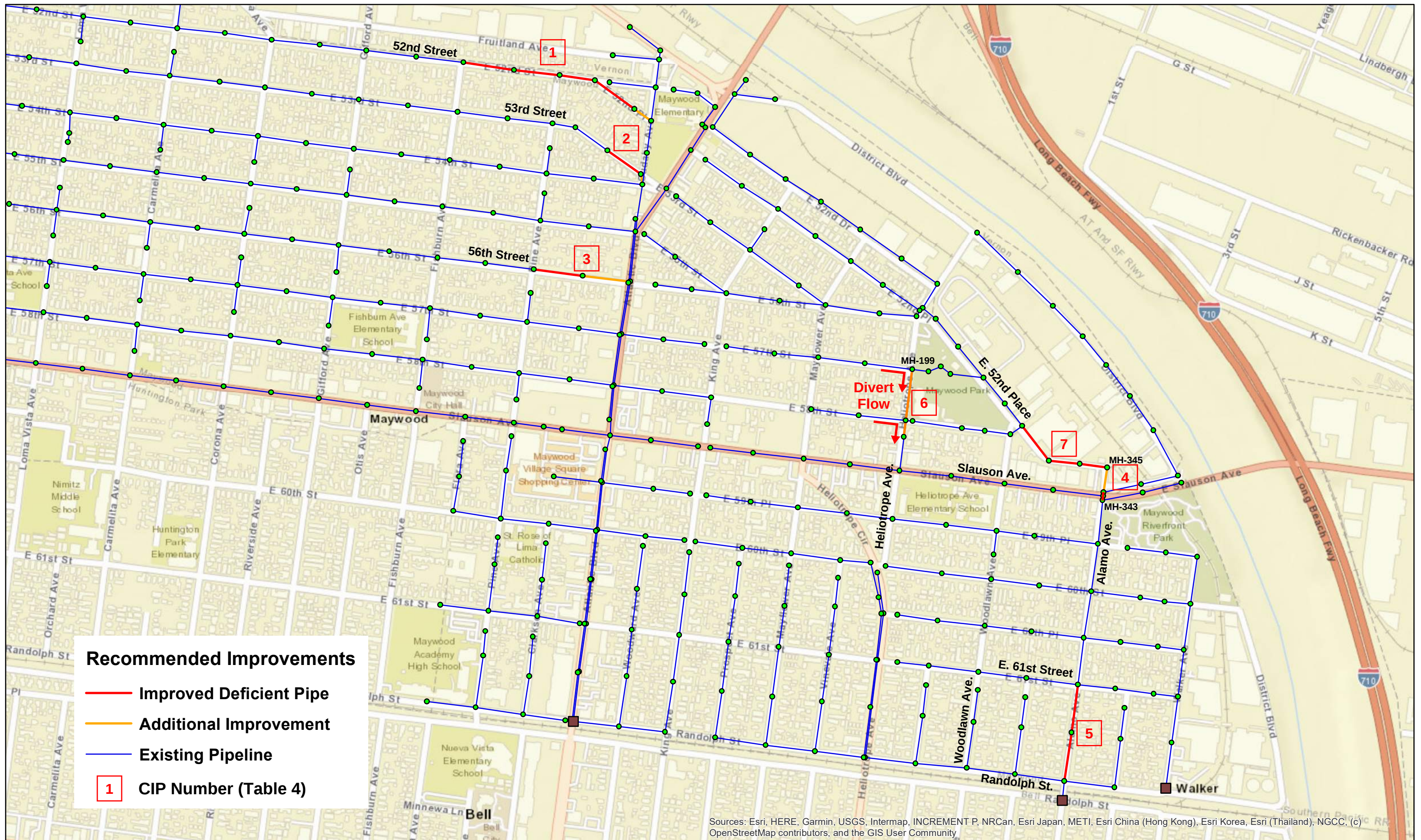


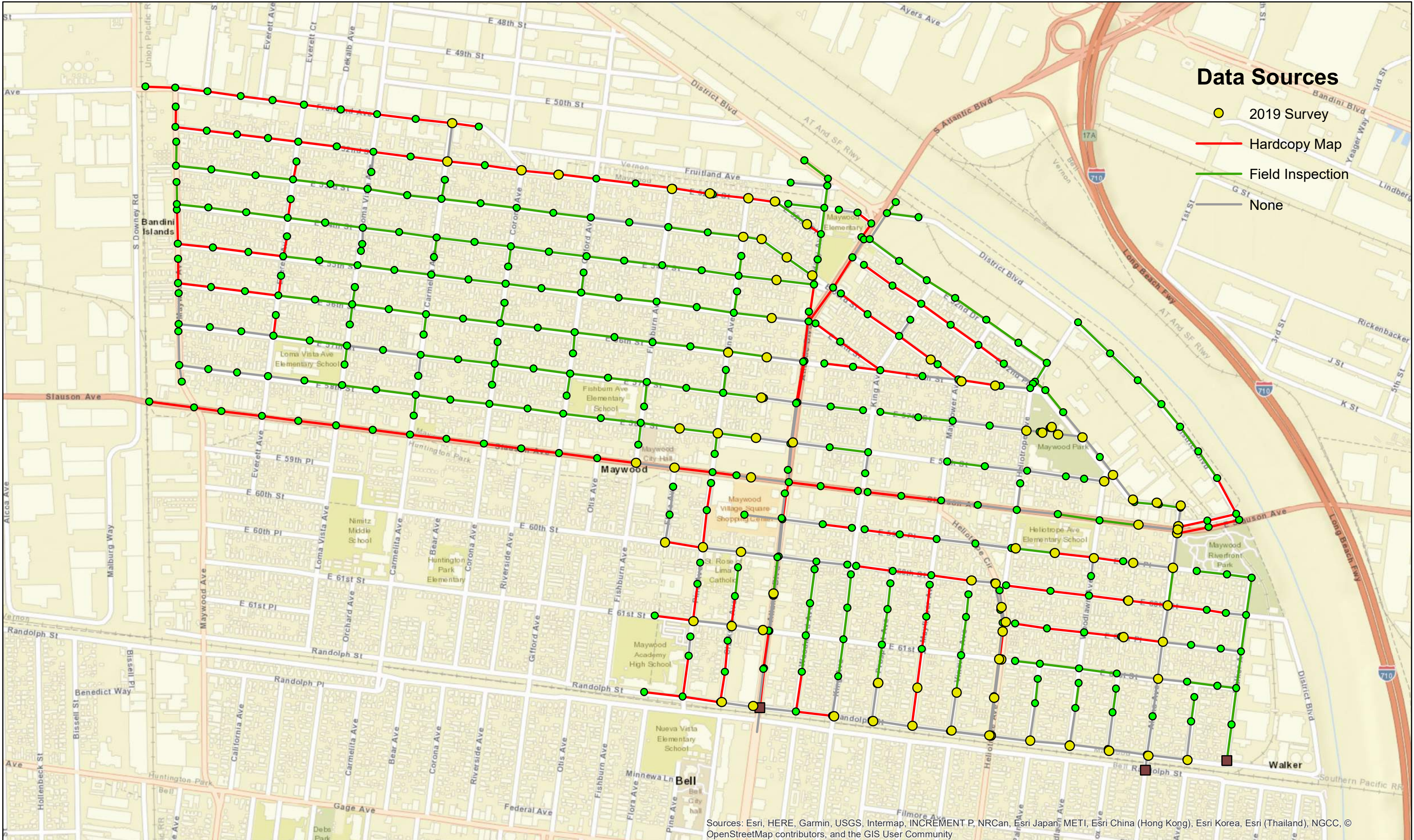
Figure 3 (cont.)
 Winter Flow Monitoring
 Pipeline Flow and Rainfall Events
 Page 28 of 116



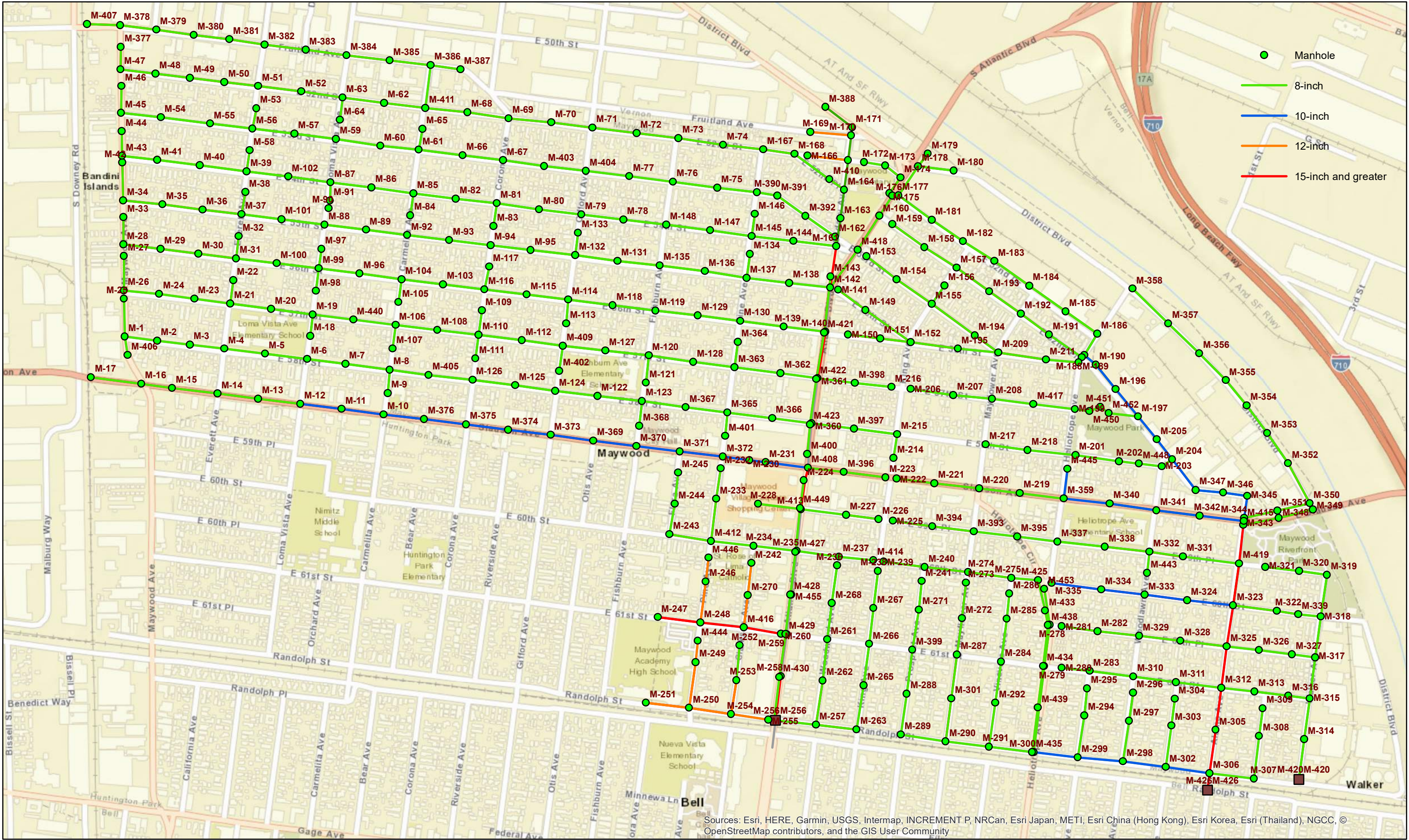
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

FIGURE 4
Peak Wet Weather Flow Depth over Diameter





Junction Map (Manhole Numbers)
Peak Wet Weather Flow Model Output



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community

Maywood Sewer Model Output - Peak Wet Weather Flow

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpd)	d/D
GM-1	M-17	M-16	8	382.4	0.009	2	0.05
GM-10	M-13	M-12	8	326.0	0.004	46	0.26
GM-100	M-41	M-40	8	331.1	0.003	49	0.28
GM-101	M-40	M-39	8	333.1	0.003	69	0.32
GM-102	M-39	M-102	8	329.0	0.003	90	0.37
GM-103	M-45	M-54	8	348.0	0.003	33	0.22
GM-104	M-77	M-76	8	342.0	0.004	266	0.65
GM-105	M-76	M-75	8	342.0	0.004	287	0.73
GM-106	M-75	M-390	8	340.0	0.003	305	0.79
GM-107	M-391	M-392	8	271.1	0.004	325	0.79
GM-108	M-390	M-391	8	163.0	0.003	312	0.90
GM-109	M-392	M-162	8	276.0	0.003	335	1.00
GM-11	M-12	M-11	10	326.0	0.004	57	0.21
GM-110	M-57	M-59	8	326.0	0.003	112	0.43
GM-111	M-59	M-60	8	332.1	0.003	127	0.45
GM-112	M-60	M-61	8	328.0	0.003	146	0.48
GM-113	M-61	M-66	8	330.0	0.004	167	0.48
GM-114	M-66	M-67	8	329.0	0.004	186	0.52
GM-115	M-67	M-403	8	330.1	0.006	206	0.49
GM-116	M-403	M-404	8	329.0	0.005	227	0.54
GM-117	M-404	M-77	8	337.0	0.004	246	0.62
GM-118	M-54	M-55	8	351.0	0.003	56	0.29
GM-119	M-55	M-56	8	345.1	0.003	77	0.35
GM-12	M-11	M-10	10	326.0	0.004	70	0.23
GM-120	M-56	M-57	8	330.0	0.003	95	0.39
GM-121	M-47	M-48	8	269.0	0.003	23	0.19
GM-122	M-410	M-164	8	147.0	0.021	400	0.50
GM-123	M-73	M-74	8	340.0	0.003	356	1.00
GM-124	M-74	M-167	8	341.0	0.003	372	1.00
GM-125	M-167	M-168	8	236.8	0.003	386	1.00
GM-126	M-168	M-410	8	348.0	0.003	393	1.00
GM-127	M-52	M-63	8	240.0	0.004	111	0.40
GM-128	M-63	M-62	8	326.0	0.004	135	0.43
GM-129	M-62	M-411	8	330.0	0.004	153	0.46
GM-13	M-10	M-376	10	326.0	0.004	77	0.24
GM-130	M-411	M-68	8	330.0	0.004	242	0.65
GM-131	M-68	M-69	8	375.0	0.004	261	0.68
GM-132	M-69	M-70	8	285.0	0.005	281	0.65
GM-133	M-70	M-71	8	330.0	0.004	299	0.76
GM-134	M-71	M-72	8	340.0	0.004	315	0.80
GM-135	M-72	M-73	8	341.0	0.004	333	0.90
GM-136	M-48	M-49	8	269.0	0.003	36	0.24
GM-137	M-49	M-50	8	269.0	0.003	54	0.29
GM-138	M-51	M-52	8	246.8	0.001	86	0.52
GM-139	M-50	M-51	8	269.0	0.003	72	0.34

Maywood Sewer Model Output - Peak Wet Weather Flow

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpd)	d/D
GM-14	M-376	M-375	10	326.0	0.004	88	0.26
GM-140	M-407	M-378	8	241.1	0.008	2	0.05
GM-141	M-383	M-384	8	326.0	0.003	37	0.24
GM-142	M-384	M-385	8	326.0	0.003	41	0.26
GM-143	M-385	M-386	8	326.0	0.003	50	0.28
GM-144	M-387	M-386	8	230.0	0.003	6	0.10
GM-145	M-378	M-379	8	281.5	0.003	3	0.08
GM-146	M-379	M-380	8	281.5	0.003	7	0.11
GM-147	M-380	M-381	8	281.5	0.003	16	0.16
GM-148	M-382	M-383	8	326.0	0.003	28	0.21
GM-149	M-381	M-382	8	281.5	0.003	20	0.18
GM-15	M-375	M-374	10	326.0	0.004	101	0.28
GM-150	M-236	M-268	8	292.0	0.003	13	0.15
GM-151	M-262	M-257	8	337.0	0.007	65	0.26
GM-152	M-268	M-261	8	289.0	0.002	31	0.25
GM-153	M-261	M-262	8	340.0	0.002	47	0.28
GM-154	M-252	M-253	8	269.1	0.004	13	0.13
GM-155	M-253	M-254	12	335.0	0.004	35	0.13
GM-157	M-249	M-250	12	271.0	0.003	34	0.14
GM-158	M-246	M-248	12	260.0	0.003	33	0.14
GM-16	M-374	M-373	10	326.0	0.004	111	0.29
GM-161	M-228	M-413	8	282.0	0.011	30	0.16
GM-162	M-238	M-267	8	291.0	0.002	12	0.15
GM-163	M-265	M-263	8	337.6	0.001	70	0.41
GM-164	M-267	M-266	8	289.0	0.001	30	0.26
GM-165	M-266	M-265	8	340.0	0.002	48	0.30
GM-166	M-241	M-271	8	211.0	0.005	13	0.13
GM-167	M-288	M-289	8	340.2	0.003	65	0.31
GM-168	M-399	M-288	8	340.0	0.003	46	0.26
GM-169	M-271	M-399	8	330.0	0.003	29	0.21
GM-17	M-16	M-15	8	237.2	0.004	6	0.10
GM-170	M-273	M-272	8	285.8	0.003	16	0.16
GM-171	M-301	M-290	8	339.0	0.003	66	0.32
GM-172	M-287	M-301	8	336.2	0.004	50	0.27
GM-173	M-272	M-287	8	295.9	0.003	33	0.22
GM-174	M-286	M-285	8	207.4	0.005	14	0.13
GM-175	M-292	M-291	8	339.0	0.004	66	0.31
GM-176	M-284	M-292	8	341.0	0.003	49	0.27
GM-177	M-285	M-284	8	332.1	0.004	30	0.20
GM-178	M-239	M-240	8	350.0	0.005	9	0.10
GM-18	M-15	M-14	8	348.8	0.004	18	0.16
GM-181	M-278	M-279	8	329.0	0.004	6	0.09
GM-183	M-240	M-274	8	350.0	0.004	18	0.16
GM-184	M-274	M-275	8	348.0	0.003	26	0.20
GM-185	M-275	M-425	8	217.0	0.002	34	0.24

Maywood Sewer Model Output - Peak Wet Weather Flow

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpd)	d/D
GM-188	M-295	M-294	8	213.0	0.007	12	0.11
GM-189	M-294	M-299	8	339.1	0.006	30	0.18
GM-19	M-1	M-2	8	259.0	0.003	35	0.24
GM-190	M-296	M-297	8	214.3	0.004	14	0.14
GM-191	M-297	M-298	8	341.0	0.007	31	0.18
GM-192	M-280	M-283	8	128.9	0.006	10	0.11
GM-193	M-283	M-310	8	353.0	0.005	22	0.16
GM-194	M-310	M-311	8	351.0	0.004	32	0.21
GM-195	M-311	M-312	8	349.0	0.006	45	0.22
GM-196	M-281	M-282	8	180.1	0.006	13	0.12
GM-197	M-282	M-329	8	346.2	0.003	27	0.20
GM-198	M-329	M-328	8	343.0	0.004	46	0.25
GM-199	M-328	M-325	8	342.0	0.01	63	0.23
GM-2	M-373	M-369	10	336.5	0.004	123	0.31
GM-20	M-124	M-122	8	342.0	0.003	259	0.73
GM-200	M-316	M-313	8	265.0	0.004	0	0.00
GM-201	M-313	M-312	8	263.6	0.005	14	0.13
GM-202	M-304	M-303	8	214.3	0.009	10	0.10
GM-203	M-303	M-302	8	340.0	0.007	24	0.16
GM-204	M-309	M-308	8	214.3	0.005	12	0.12
GM-205	M-308	M-307	8	350.0	0.005	29	0.19
GM-207	M-289	M-290	8	351.0	0.003	71	0.34
GM-208	M-290	M-291	8	351.0	0.003	143	0.48
GM-209	M-291	M-435	8	334.0	0.003	214	0.61
GM-21	M-122	M-123	8	341.0	0.003	273	0.73
GM-210	M-300	M-299	10	351.0	0.003	303	0.55
GM-211	M-299	M-298	10	350.0	0.003	339	0.56
GM-212	M-298	M-302	10	350.0	0.003	376	0.65
GM-213	M-302	M-306	10	350.1	0.002	405	0.79
GM-214	M-335	M-334	10	312.1	0.003	14	0.11
GM-215	M-334	M-333	10	319.0	0.004	29	0.15
GM-216	M-333	M-324	10	346.0	0.004	43	0.18
GM-217	M-324	M-323	10	339.7	0.006	62	0.19
GM-218	M-337	M-338	8	352.0	0.003	75	0.34
GM-219	M-338	M-332	8	349.1	0.003	103	0.40
GM-22	M-123	M-367	8	342.0	0.005	292	0.66
GM-220	M-332	M-331	8	351.0	0.004	124	0.42
GM-221	M-225	M-394	8	300.1	0.003	12	0.14
GM-222	M-394	M-393	8	385.9	0.003	33	0.22
GM-223	M-393	M-395	8	344.0	0.003	49	0.27
GM-224	M-395	M-337	8	354.1	0.002	63	0.34
GM-225	M-223	M-396	8	313.0	0.004	9	0.11
GM-226	M-396	M-408	8	296.0	0.006	17	0.14
GM-227	M-226	M-227	8	255.0	0.005	16	0.14
GM-228	M-227	M-413	8	292.1	0.005	30	0.19

Maywood Sewer Model Output - Peak Wet Weather Flow

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpd)	d/D
GM-229	M-222	M-221	8	296.0	0.004	6	0.09
GM-23	M-367	M-365	8	342.0	0.003	310	0.90
GM-230	M-221	M-220	8	346.0	0.004	26	0.19
GM-231	M-220	M-219	8	330.0	0.003	37	0.24
GM-232	M-219	M-359	8	329.0	0.003	47	0.27
GM-233	M-359	M-340	10	370.0	0.005	60	0.20
GM-234	M-340	M-341	10	371.0	0.002	74	0.26
GM-235	M-341	M-342	10	350.0	0.003	83	0.27
GM-236	M-342	M-415	10	349.0	0.008	90	0.22
GM-237	M-242	M-270	12	260.0	0.004	18	0.09
GM-238	M-270	M-416	12	261.0	0.006	30	0.11
GM-239	M-247	M-248	15	333.0	0.005	8	0.05
GM-24	M-365	M-366	8	340.0	0.006	327	0.65
GM-240	M-248	M-416	15	341.0	0.004	49	0.11
GM-241	M-416	M-260	15	280.0	0.012	84	0.11
GM-242	M-245	M-244	8	234.1	0.001	20	0.23
GM-243	M-243	M-412	8	338.1	0.006	41	0.22
GM-244	M-412	M-234	8	338.0	0.008	69	0.26
GM-245	M-234	M-235	8	339.0	0.006	79	0.29
GM-246	M-244	M-243	8	240.1	0.001	29	0.28
GM-247	M-414	M-237	8	293.0	0.006	9	0.11
GM-248	M-237	M-235	8	293.1	0.008	17	0.13
GM-249	M-232	M-233	8	231.0	0.004	5	0.08
GM-250	M-233	M-412	8	326.0	0.003	21	0.18
GM-251	M-215	M-397	8	332.1	0.002	24	0.20
GM-252	M-397	M-360	8	335.1	0.006	41	0.21
GM-253	M-216	M-398	8	291.0	0.003	18	0.17
GM-254	M-398	M-361	8	292.0	0.005	34	0.20
GM-255	M-206	M-207	8	309.1	0.005	15	0.14
GM-256	M-207	M-208	8	316.0	0.003	32	0.23
GM-257	M-417	M-199	8	330.0	0.005	70	0.29
GM-258	M-208	M-417	8	331.0	0.005	47	0.23
GM-26	M-5	M-6	8	332.0	0.003	127	0.45
GM-263	M-217	M-218	8	349.0	0.005	26	0.18
GM-265	M-201	M-202	8	266.1	0.004	53	0.27
GM-268	M-203	M-204	8	93.0	0.003	65	0.33
GM-269	M-150	M-151	8	255.0	0.003	13	0.14
GM-27	M-4	M-5	8	331.0	0.001	87	0.56
GM-270	M-195	M-209	8	350.0	0.006	70	0.27
GM-271	M-209	M-211	8	303.0	0.004	149	0.45
GM-272	M-211	M-189	8	293.0	0.004	164	0.50
GM-273	M-151	M-152	8	253.0	0.003	24	0.19
GM-274	M-152	M-195	8	360.0	0.003	60	0.31
GM-275	M-141	M-149	8	290.0	0.002	8	0.13
GM-276	M-149	M-152	8	292.0	0.003	21	0.17

Maywood Sewer Model Output - Peak Wet Weather Flow

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpd)	d/D
GM-277	M-153	M-154	8	270.0	0.003	14	0.15
GM-278	M-194	M-209	8	333.0	0.005	65	0.28
GM-279	M-154	M-155	8	273.0	0.003	33	0.22
GM-28	M-6	M-7	8	331.0	0.003	143	0.51
GM-280	M-155	M-194	8	345.0	0.004	57	0.28
GM-281	M-159	M-158	8	303.0	0.006	15	0.13
GM-282	M-192	M-191	8	296.0	0.003	66	0.33
GM-283	M-191	M-188	8	331.0	0.009	76	0.26
GM-284	M-193	M-192	8	312.0	0.003	53	0.29
GM-285	M-157	M-193	8	312.0	0.003	37	0.24
GM-286	M-158	M-157	8	300.0	0.006	28	0.18
GM-287	M-177	M-181	8	315.0	0.003	1	0.05
GM-288	M-185	M-186	8	300.1	0.005	66	0.29
GM-289	M-186	M-187	8	188.6	0.008	67	0.25
GM-29	M-7	M-8	8	331.0	0.002	163	0.57
GM-290	M-184	M-185	8	354.0	0.004	32	0.21
GM-291	M-181	M-182	8	300.0	0.003	15	0.15
GM-292	M-182	M-183	8	302.0	0.002	19	0.18
GM-293	M-183	M-184	8	354.0	0.004	31	0.20
GM-294	M-172	M-173	8	163.0	0.005	7	0.10
GM-295	M-174	M-175	8	163.0	0.004	9	0.11
GM-296	M-173	M-174	8	146.9	0.005	8	0.10
GM-297	M-176	M-160	8	172.0	0.004	18	0.16
GM-298	M-418	M-142	8	353.0	0.004	24	0.18
GM-299	M-160	M-418	8	336.1	0.004	22	0.17
GM-3	M-369	M-370	10	341.1	0.004	135	0.33
GM-30	M-8	M-405	8	331.0	0.003	184	0.56
GM-303	M-187	M-190	10	102.0	0.004	310	0.52
GM-304	M-347	M-346	10	212.4	0.004	588	0.81
GM-305	M-346	M-345	10	213.0	0.003	598	1.00
GM-306	M-345	M-344	10	181.1	0.007	604	0.65
GM-307	M-205	M-204	10	214.0	0.003	494	0.74
GM-308	M-204	M-347	10	282.2	0.003	581	1.00
GM-309	M-196	M-197	10	259.0	0.003	361	0.62
GM-31	M-405	M-126	8	332.0	0.003	204	0.59
GM-310	M-197	M-205	10	214.0	0.003	472	0.71
GM-311	M-190	M-196	10	295.5	0.003	310	0.56
GM-312	M-358	M-357	8	304.0	0.003	13	0.14
GM-313	M-351	M-344	8	246.0	0.008	26	0.16
GM-314	M-350	M-351	8	253.0	0.008	24	0.15
GM-315	M-353	M-352	8	325.0	0.002	23	0.20
GM-316	M-352	M-350	8	350.0	0.003	24	0.20
GM-317	M-354	M-353	8	301.0	0.003	21	0.18
GM-318	M-356	M-355	8	305.0	0.003	17	0.16
GM-319	M-355	M-354	8	299.0	0.003	19	0.17

Maywood Sewer Model Output - Peak Wet Weather Flow

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpd)	d/D
GM-32	M-126	M-125	8	328.0	0.003	221	0.63
GM-320	M-357	M-356	8	317.0	0.003	15	0.16
GM-321	M-64	M-63	8	179.1	0.005	9	0.11
GM-322	M-386	M-411	8	339.0	0.003	61	0.32
GM-323	M-65	M-61	8	180.1	0.005	6	0.09
GM-324	M-84	M-85	8	173.0	0.006	9	0.10
GM-325	M-90	M-91	8	40.0	0.009	6	0.08
GM-326	M-91	M-87	8	78.0	0.009	13	0.11
GM-327	M-53	M-56	8	176.0	0.003	8	0.11
GM-328	M-58	M-39	8	177.7	0.003	10	0.13
GM-329	M-38	M-37	8	178.0	0.003	14	0.15
GM-33	M-125	M-124	8	332.0	0.003	243	0.66
GM-330	M-44	M-43	8	245.0	0.004	14	0.14
GM-331	M-42	M-34	8	288.0	0.003	10	0.13
GM-332	M-27	M-26	8	266.1	0.003	8	0.12
GM-333	M-25	M-1	8	301.0	0.003	10	0.13
GM-334	M-406	M-1	8	146.2	0.003	11	0.14
GM-335	M-32	M-31	8	176.0	0.003	8	0.12
GM-336	M-22	M-21	8	176.0	0.006	10	0.10
GM-337	M-18	M-19	8	190.6	0.005	3	0.06
GM-338	M-98	M-99	8	190.0	0.004	11	0.12
GM-339	M-97	M-99	8	190.2	0.006	10	0.11
GM-34	M-2	M-3	8	257.0	0.003	52	0.29
GM-340	M-107	M-106	8	187.6	0.004	10	0.12
GM-341	M-105	M-104	8	188.0	0.002	14	0.16
GM-342	M-9	M-8	8	190.1	0.005	10	0.11
GM-343	M-111	M-110	8	191.0	0.005	9	0.11
GM-344	M-402	M-409	8	188.3	0.005	10	0.11
GM-345	M-121	M-120	8	188.4	0.003	20	0.18
GM-346	M-368	M-123	8	190.0	0.005	8	0.10
GM-347	M-214	M-215	8	188.6	0.001	6	0.11
GM-35	M-3	M-4	8	257.1	0.003	69	0.33
GM-350	M-156	M-155	8	133.0	0.004	7	0.10
GM-352	M-179	M-178	8	130.1	0.029	0	0.00
GM-353	M-180	M-178	8	279.0	0.003	0	0.00
GM-354	M-178	M-177	8	279.4	0.004	0	0.00
GM-355	M-166	M-165	12	325.0	0.004	8	0.06
GM-356	M-146	M-145	8	177.6	0.007	8	0.10
GM-357	M-134	M-137	8	176.0	0.008	9	0.09
GM-358	M-388	M-171	18	266.2	0.002	0	0.00
GM-359	M-169	M-170	12	483.0	0.009	4	0.04
GM-36	M-26	M-24	8	281.1	0.003	21	0.19
GM-360	M-133	M-132	8	180.1	0.008	8	0.09
GM-361	M-83	M-81	8	180.1	0.005	6	0.09
GM-362	M-117	M-116	8	189.0	0.004	9	0.11

Maywood Sewer Model Output - Peak Wet Weather Flow

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpd)	d/D
GM-363	M-113	M-114	8	190.1	0.003	9	0.11
GM-364	M-109	M-110	8	187.3	0.005	9	0.10
GM-365	M-364	M-363	8	190.0	0.005	9	0.10
GM-366	M-401	M-365	8	188.4	0.002	5	0.09
GM-369	M-349	M-348	8	268.0	0.01	5	0.07
GM-37	M-127	M-120	8	340.2	0.003	243	0.66
GM-370	M-348	M-343	8	271.0	0.008	12	0.11
GM-371	M-343	M-419	15	310.0	0.002	736	0.57
GM-372	M-312	M-305	15	339.2	0.001	1,135	1.00
GM-373	M-305	M-306	15	347.3	0.001	1,153	1.00
GM-374	M-325	M-312	15	330.2	0.003	1,063	0.63
GM-375	M-323	M-325	15	325.0	0.002	970	0.67
GM-376	M-419	M-323	15	335.1	0.002	880	0.62
GM-377	M-307	M-306	8	214.3	0.009	36	0.18
GM-378	M-316	M-315	8	276.0	0.007	6	0.08
GM-379	M-339	M-322	8	256.0	0.005	0	0.00
GM-38	M-120	M-128	8	342.0	0.003	277	0.73
GM-380	M-327	M-317	8	182.4	0.027	5	0.05
GM-381	M-327	M-326	8	262.3	0.004	2	0.05
GM-382	M-326	M-325	8	258.0	0.005	21	0.16
GM-383	M-321	M-320	8	288.0	0.003	19	0.17
GM-384	M-314	M-420	8	319.0	0.003	165	0.52
GM-385	M-315	M-314	8	343.0	0.003	119	0.44
GM-386	M-317	M-315	8	320.1	0.003	78	0.36
GM-387	M-318	M-317	8	318.0	0.003	50	0.28
GM-388	M-320	M-319	8	292.0	0.003	25	0.19
GM-389	M-319	M-318	8	331.0	0.002	28	0.22
GM-39	M-363	M-362	8	341.1	0.006	323	0.64
GM-391	M-377	M-47	8	182.0	0.003	13	0.15
GM-392	M-46	M-45	8	275.0	0.005	16	0.14
GM-393	M-33	M-28	8	250.6	0.003	9	0.12
GM-394	M-162	M-161	8	83.0	0.004	336	0.76
GM-396	M-251	M-250	12	334.0	0.003	11	0.08
GM-397	M-250	M-254	12	343.0	0.007	50	0.13
GM-398	M-255	M-256	8	41.8	0.057	92	0.18
GM-399	M-254	M-255	12	277.0	0.013	90	0.15
GM-4	M-370	M-371	10	341.0	0.003	141	0.34
GM-40	M-128	M-363	8	339.0	0.005	296	0.66
GM-400	M-257	M-256	8	336.0	0.003	149	0.49
GM-401	M-263	M-257	8	331.1	0.003	75	0.35
GM-402	M-175	M-176	8	18.0	0.005	18	0.15
GM-403	M-188	M-187	8	28.1	0.005	242	0.56
GM-404	M-189	M-188	8	59.4	0.006	166	0.45
GM-406	M-339	M-318	8	179.0	0.022	6	0.06
GM-407	M-322	M-323	8	258.0	0.005	19	0.15

Maywood Sewer Model Output - Peak Wet Weather Flow

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpd)	d/D
GM-408	M-306	M-426	15	135.5	0.023	1,598	0.42
GM-409	M-171	M-170	18	70.0	0.004	0	0.00
GM-41	M-362	M-361	8	333.1	0.006	342	0.68
GM-410	M-360	M-408	24	351.0	0.003	3,752	0.62
GM-411	M-361	M-360	24	359.0	0.003	3,333	0.57
GM-412	M-140	M-361	24	371.0	0.003	2,953	0.53
GM-413	M-142	M-140	24	352.0	0.003	2,592	0.48
GM-414	M-161	M-142	24	341.0	0.001	2,239	0.67
GM-415	M-164	M-163	21	226.1	0.003	1,545	0.43
GM-416	M-163	M-161	21	223.2	0.004	1,552	0.42
GM-417	M-170	M-165	21	195.0	0.003	1,129	0.38
GM-418	M-165	M-164	21	237.0	0.002	1,139	0.41
GM-419	M-143	M-421	8	446.0	0.004	6	0.09
GM-42	M-20	M-19	8	329.0	0.003	88	0.36
GM-421	M-422	M-423	8	351.0	0.004	19	0.16
GM-422	M-421	M-422	8	356.0	0.004	12	0.13
GM-423	M-408	M-413	24	332.0	0.003	3,935	0.64
GM-424	M-258	M-256	24	350.0	0.006	4,244	0.51
GM-425	M-259	M-258	24	335.0	0.003	4,239	0.68
GM-426	M-455	M-259	24	324.0	0.003	4,106	0.66
GM-427	M-235	M-455	24	337.0	0.003	4,101	0.66
GM-428	M-413	M-235	24	332.0	0.003	3,999	0.65
GM-433	M-429	M-430	8	342.3	0.003	0	0.00
GM-434	M-428	M-429	8	326.0	0.004	32	0.21
GM-435	M-427	M-428	8	142.1	0.007	23	0.16
GM-435A	M-428	M-455	8	4.0	0.663	0	0.00
GM-436	M-260	M-429	10	47.0	0.034	89	0.15
GM-436A	M-429	M-259	8	4.0	0.043	128	0.23
GM-437	M-344	M-415	10	30.0	0.003	631	1.00
GM-438	M-415	M-343	15	32.0	-0.001	721	1.00
GM-44	M-106	M-108	8	330.0	0.003	136	0.47
GM-441	M-425	M-433	8	214.0	0.002	37	0.26
GM-442	M-433	M-438	8	218.0	0.007	40	0.20
GM-443	M-438	M-434	8	246.0	0.002	46	0.28
GM-445	M-439	M-435	8	334.4	0.002	69	0.35
GM-446	M-434	M-439	8	348.1	0.002	56	0.31
GM-449	M-443	M-332	8	108.0	0.002	6	0.11
GM-45	M-110	M-112	8	326.0	0.004	188	0.54
GM-450	M-445	M-359	10	316.2	0.001	5	0.08
GM-453	M-202	M-448	8	349.2	0.002	59	0.33
GM-454	M-448	M-203	8	85.1	0.002	61	0.33
GM-455	M-446	M-246	12	256.7	0.003	6	0.06
GM-456	M-444	M-249	12	270.0	0.001	8	0.08
GM-458	M-331	M-419	8	430.0	0.003	134	0.48
GM-459	M-279	M-300	8	336.0	0.008	13	0.11

Maywood Sewer Model Output - Peak Wet Weather Flow

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpd)	d/D
GM-46	M-108	M-110	8	328.0	0.003	157	0.51
GM-460	M-218	M-201	8	378.8	0.004	45	0.25
GM-461	M-450	M-451	8	98.1	0.006	82	0.30
GM-462	M-451	M-452	8	87.0	0	84	1.00
GM-463	M-199	M-450	8	143.7	0.003	74	0.34
GM-464	M-452	M-197	8	218.4	0.002	111	0.46
GM-465	M-19	M-440	8	329.0	0.003	101	0.42
GM-466	M-440	M-106	8	329.0	0.002	120	0.50
GM-467	M-224	M-449	8	144.0	0.006	7	0.09
GM-468	M-449	M-427	8	143.0	0.002	12	0.14
GM-469	M-430	M-256	8	336.0	0.008	1	0.03
GM-47	M-409	M-127	8	341.1	0.004	230	0.62
GM-473	M-366	M-360	8	329.0	0.005	349	0.72
GM-475	M-435	M-300	8	10.0	0.019	285	0.43
GM-477	M-400	M-423	8	241.0	0.003	4	0.08
GM-478	M-453	M-278	8	285.0	0.002	2	0.07
GM-48	M-112	M-409	8	322.1	0.004	210	0.57
GM-49	M-24	M-23	8	278.0	0.003	40	0.25
GM-5	M-371	M-372	10	339.0	0.004	149	0.34
GM-50	M-23	M-21	8	279.0	0.003	60	0.31
GM-51	M-21	M-20	8	331.2	0.001	78	0.57
GM-517	M-423	M-360	8	13.5	0.128	23	0.08
GM-52	M-28	M-29	8	292.6	0.003	35	0.24
GM-53	M-118	M-119	8	340.0	0.004	292	0.68
GM-54	M-119	M-129	8	340.0	0.005	310	0.69
GM-55	M-129	M-130	8	340.0	0.005	328	0.72
GM-56	M-130	M-139	8	340.1	0.003	343	1.00
GM-57	M-139	M-140	8	335.1	0.011	360	0.57
GM-58	M-100	M-99	8	328.0	0.003	108	0.43
GM-59	M-99	M-96	8	332.1	0.003	140	0.47
GM-6	M-372	M-230	10	336.7	0.003	149	0.38
GM-60	M-96	M-104	8	328.0	0.003	159	0.52
GM-61	M-104	M-103	8	332.1	0.003	187	0.56
GM-62	M-103	M-116	8	330.0	0.003	209	0.62
GM-63	M-116	M-115	8	333.1	0.003	227	0.62
GM-64	M-115	M-114	8	329.0	0.004	246	0.61
GM-65	M-114	M-118	8	342.0	0.003	270	0.71
GM-66	M-29	M-30	8	292.6	0.003	53	0.29
GM-67	M-30	M-31	8	292.6	0.003	71	0.34
GM-68	M-31	M-100	8	333.1	0	90	0.70
GM-69	M-34	M-35	8	309.8	0.003	31	0.22
GM-7	M-231	M-408	10	333.0	0.001	164	0.52
GM-70	M-135	M-136	8	340.0	0.004	265	0.64
GM-71	M-136	M-137	8	341.0	0.004	285	0.69
GM-72	M-137	M-138	8	340.0	0.004	310	0.72

Maywood Sewer Model Output - Peak Wet Weather Flow

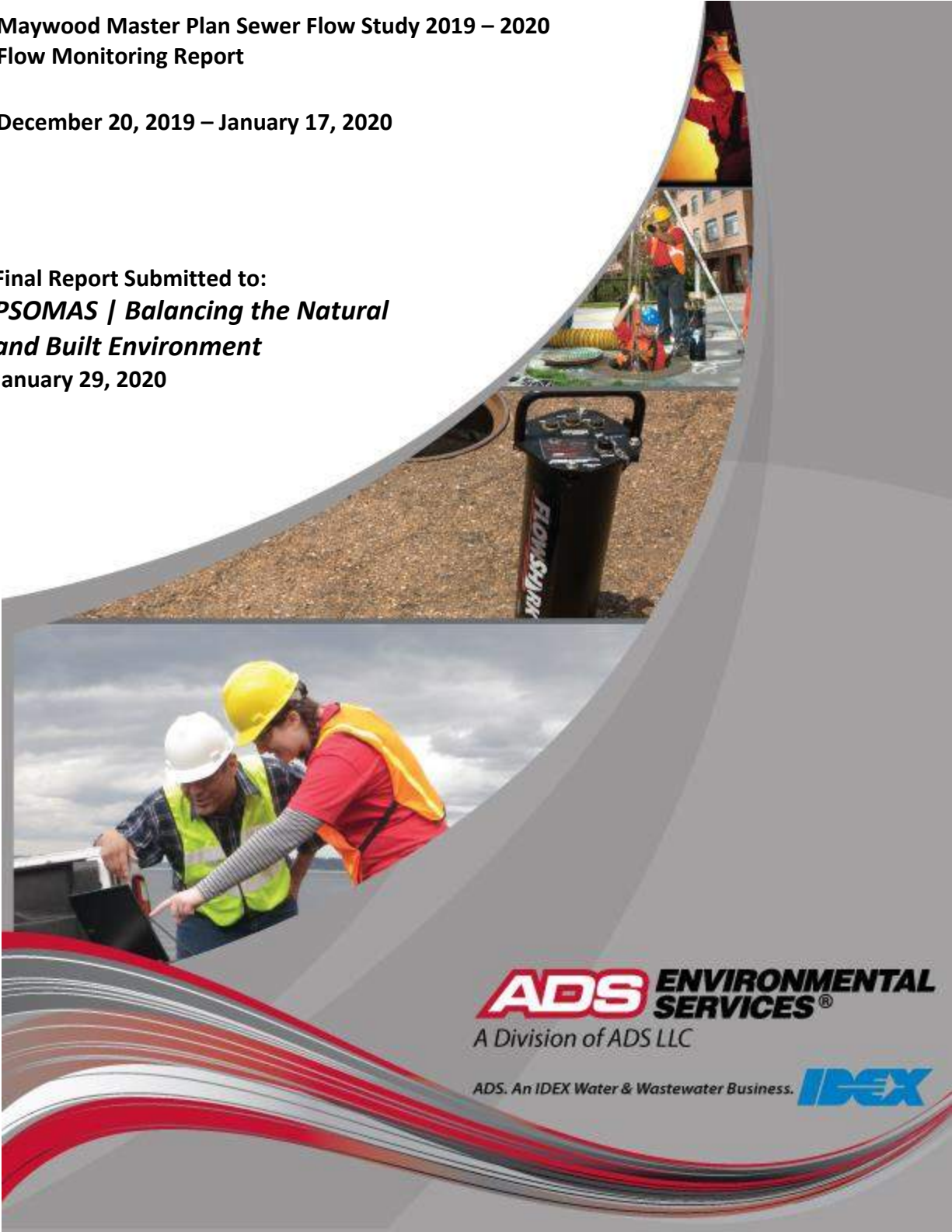
ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpd)	d/D
GM-73	M-138	M-142	8	335.1	0.006	327	0.67
GM-74	M-101	M-88	8	330.0	0.002	112	0.45
GM-75	M-88	M-89	8	330.0	0.003	121	0.43
GM-76	M-89	M-92	8	329.0	0.003	140	0.48
GM-77	M-92	M-93	8	331.1	0.003	154	0.49
GM-78	M-93	M-94	8	331.0	0.004	172	0.51
GM-79	M-94	M-95	8	330.0	0.005	180	0.49
GM-8	M-230	M-231	10	126.0	0.016	155	0.24
GM-80	M-95	M-132	8	330.0	0.004	199	0.55
GM-81	M-132	M-131	8	340.0	0.004	226	0.59
GM-82	M-131	M-135	8	340.0	0.004	244	0.65
GM-83	M-35	M-36	8	314.0	0.003	52	0.29
GM-84	M-36	M-37	8	312.0	0.003	67	0.33
GM-85	M-37	M-101	8	331.1	0.001	91	0.58
GM-86	M-43	M-41	8	329.0	0.003	28	0.21
GM-87	M-78	M-148	8	339.0	0.003	272	0.73
GM-88	M-148	M-147	8	342.0	0.005	291	0.66
GM-89	M-147	M-145	8	340.0	0.004	310	0.73
GM-9	M-14	M-13	8	326.0	0.004	31	0.21
GM-90	M-145	M-144	8	342.0	0.005	329	0.74
GM-91	M-144	M-161	8	332.1	0.004	347	0.81
GM-92	M-102	M-87	8	330.0	0.003	109	0.43
GM-93	M-87	M-86	8	331.1	0.003	132	0.46
GM-94	M-86	M-85	8	329.0	0.003	152	0.51
GM-95	M-85	M-82	8	331.1	0.003	174	0.53
GM-96	M-82	M-81	8	329.0	0.003	195	0.56
GM-97	M-81	M-80	8	332.1	0.004	220	0.58
GM-98	M-80	M-79	8	328.0	0.004	239	0.60
GM-99	M-79	M-78	8	344.0	0.004	251	0.64

ADS Winter 2019/20 Flow Monitoring Report

**Maywood Master Plan Sewer Flow Study 2019 – 2020
Flow Monitoring Report**

December 20, 2019 – January 17, 2020

**Final Report Submitted to:
*PSOMAS | Balancing the Natural
and Built Environment*
January 29, 2020**



**ADS ENVIRONMENTAL
SERVICES®**

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ADS. An IDEX Water & Wastewater Business.



Maywood Master Plan Sewer Flow Study 2019 - 2020

Prepared for:

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January 29, 2020

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Senior Project Manager
Water & Wastewater Infrastructure
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SUBJECT: Maywood Master Plan Sewer Flow Study 2019 - 2020

Dear Mike,

ADS is pleased to submit the report for the Maywood Master Plan Sewer Flow Study 2019 - 2020 conducted on behalf of PSOMAS. The metering was contracted for twenty-eight (28) days at four (4) locations. The study period is December 20, 2019 - January 17, 2020. All available data has been provided.

The report contains 5-minute averaged depth, velocity, and quantity hydrographs as well as daily long tables for the metering period in pdf format. Excel files containing depth, quantity, and velocity entities for each monitoring location in both 5-minute and 15-minute format are also provided.

In addition, we would be happy to further explain any details about the report that may seem unclear. Should you have any questions or comments, you may contact the Project Manager, Paul Mitchell at (714) 379-9778 ext 223.

It has been our pleasure to serve you in the performance of this project. Thank you for choosing ADS products and services to meet your flow monitoring needs.

Sincerely,
ADS ENVIRONMENTAL SERVICES

Jackie Crutcher
Data Manager

Introduction

PSOMAS entered into an agreement with ADS Environmental Services to conduct flow monitoring at four (4) metering points in the Maywood, CA and LA County, CA Collection System. The study was conducted over a twenty-eight (28) day period. The study period is December 20, 2019 - January 17, 2020. The primary objective of the monitoring was to determine current flows for master planning purposes.

Project Scope

The scope of this study involved using flow monitors to quantify wastewater flows at the designated locations. Specifically, the study included the following key components.

- Investigate the proposed flow-monitoring sites for adequate hydraulic conditions.
- Flow monitor installations.
- Flow monitor confirmations and data collections.
- Flow data analysis.

Equipment installation was completed on December 19, 2019. The study period began on December 20, 2019 and was completed on January 17, 2020 .

Flow Monitoring Equipment



The **ADS FlowShark Triton** monitor was selected for this project. This flow monitor is an area velocity flow monitor that uses both the Continuity and Manning's equations to measure flow.

The ADS FlowShark Triton monitor consists of data acquisition sensors and a battery-powered microcomputer. The microcomputer includes a processor unit, data storage, and an on-board clock to control and synchronize the sensor recordings. The monitor was programmed to acquire and store depth of flow and velocity readings at 5-minute intervals.

The FS Triton monitor features cross-checking using multiple technologies in each sensor for continuous running of comparisons and tolerances. The FS Triton monitor can support two (2) sets of sensors. The sensor option used for this project was:

The Peak Combo Sensor installed at the bottom of the pipe includes three types of data acquisition technologies.

The **up looking ultrasonic depth** uses sound waves from two independent transceivers to measure the distance from the sensor upward toward the flow surface; applying the speed of sound in the water and the temperature measured by sensor to calculate depth.

The **pressure depth** is calculated by using a piezo-resistive crystal to determine the difference between hydrostatic and atmospheric pressure. The pressure sensor is temperature compensated and vented to the atmosphere through a

desiccant filled breather tube.

To obtain **peak velocity**, the sensor sends an ultrasonic signal at an angle upward through the widest cross-section of the oncoming flow. The signal is reflected by suspended particles, air bubbles, or organic matter with a frequency shift proportional to the velocity of the reflecting objects. The reflected signal is received by the sensor and processed using digital spectrum analysis to determine the peak flow velocity.

Installation

Installation of flow monitoring equipment typically proceeds in four steps. First, the site is investigated for safety and to determine physical and hydraulic suitability for the flow monitoring equipment. Second, the equipment is physically installed at the selected location. Third, the monitor is tested to assure proper operation of the velocity and depth of flow sensors and verify that the monitor clock is operational and synchronized to the master computer clock. Fourth, the depth and velocity sensors are confirmed and line confirmations are performed.

In pipes up to 42 inches in diameter, the sensors were mounted on expandable stainless steel rings, inserted at least a foot upstream into influent pipes and tightened against the inside walls of the pipes. Influent pipe installations reduce the influences of turbulence and backwater often caused by changes in channel geometry in manholes.



Data Collection, Confirmation, and Quality Assurance

Data collects were done remotely via wireless connect on a weekly basis via ADS Field Representatives. During the monitoring period, field crews visit each monitoring location to verify proper monitor operation and document field conditions. The following quality assurance steps are taken to assure the integrity of the collected data:

Measure power supplies: monitors were powered by dry cell battery packs. Voltages were recorded and battery packs replaced, as necessary. Separate batteries provided back-up power to memory allowing primary batteries to be replaced without loss of data.

Clock synchronization: Field crews synchronized monitor clocks to master clocks.

Confirm depth and velocity readings: Field crews descended into meter manholes to manually measure depths and velocities and compare them meter readings to confirm that they agreed. They also measured silt levels, if any, in the inverts of the pipes. Silt areas were subtracted from flow areas to compute true areas of flow.

Confirm average velocities through cross-sectional velocity profiles: Since ADS velocity sensors measure peak velocity, field crews collected cross-sectional velocity profiles in order to develop a relationship between peak and average velocity in lines that meet the hydraulic criteria.

Upload and Review Data: Data collected from the monitors were uploaded and reviewed by a Data Analyst for completeness, outliers and deviations in the flow patterns, which indicate system anomalies or equipment failure.

Flow Quantification Methods

There are two main equations used to measure open channel flow: the **Continuity Equation** and the **Manning Equation**. The Continuity Equation, which is considered the most accurate, can be used if both depth of flow and velocity are available. In cases where velocity measurements are not available or not practical to obtain, the Manning Equation can be used to estimate velocity from the depth data based on certain physical characteristics of the pipe (i.e. the slope and roughness of the pipe being measured). However, the Manning equation assumes uniform, steady flow hydraulic conditions with non-varying roughness, which are typically invalid assumptions in most sanitary sewers. The Continuity Equation was used exclusively for this study.

Continuity Equation

The Continuity Equation states that the flow quantity (Q) is equal to the wetted area (A) multiplied by the average velocity (V) of the flow.

$$Q = A * V$$

This equation is applicable in a variety of conditions including backwater, surcharge, and reverse flow.

Data Analysis and Presentation

Data Analysis

A flow monitor is typically programmed to collect data at either 15-minute or 5-minute intervals throughout the monitoring period. The monitor stores raw data consisting of (1) the ultrasonic depth, (2) the peak velocity and (3) the pressure depth. The data is imported into ADS's proprietary software and is examined by a data analyst to verify its integrity. The data analyst also reviews the daily field reports and site visit records to identify conditions that would affect the collected data.

Velocity profiles and the line confirmation data developed by the field personnel are reviewed by the data analyst to identify inconsistencies and verify data integrity. Velocity profiles are reviewed and an average to peak velocity ratio is

calculated for the site. This ratio is used in converting the peak velocity measured by the sensor to the average velocity used in the Continuity equation. The data analyst selects which depth sensor entity will be used to calculate the final depth information. Silt levels present at each site visit are reviewed and representative silt levels established.

Occasionally the velocity sensor's performance may be compromised resulting in invalid readings sporadically during the monitoring period. This is generally caused by excessive debris (silt) blocking the sensor's crystals, shallow flows ($\sim < 1''$) that may drop below the top of the sensor or very clear flows lacking the particles needed to measure rate. In order to use the Continuity equation to quantify the flow during these periods, a Data Analyst and/or Engineer will use the site's historical pipe curve (depth vs. velocity) data along with valid field confirmations to reconstitute and replace the false velocity recordings with expected velocity readings for a given historical depth along the curve.

Selections for the above parameters can be constant or can change during the monitoring period. While the data analysis process is described in a linear manner, it often requires an iterative approach to accurately complete.

Data Presentation

This type of flow monitoring project generates a large volume of data. To facilitate review of the data, results have been provided in graphical and tabular formats. The flow data is presented graphically in the form of scattergraphs and hydrographs. Hydrographs are based on 5-minute averaging. Tables are provided in daily average format. These tables show the flow rate for each day, along with the daily minimum and maximums, the times they were observed, the total daily flow, and total flow for the month (or monitoring period). The following explanation of terms may aid in interpretation of the tables and hydrographs.

DEPTH - Final calculated depth measurement (in inches)

QUANTITY - Final calculated flow rate (in MGD)

VELOCITY - Final calculated flow velocity (in feet per second)

REPORT TOTAL - Total volume of flow recorded for the indicated time period (in MG)

Site Commentary

Site Information

MH1185	
Pipe Dimensions	15.13
Silt Level	0.00"

Overview

Site MH1185 functioned under normal conditions during the period Friday, December 20, 2019 to Friday, January 17, 2020. This site exhibited an observable response to the wet weather events of December 22, 2019 - December 23, 2019 and December 25, 2019 - December 26, 2019. Surge conditions were experienced at this location. Review of the scattergraph shows that both free flow and backwater flows were recorded during the study period.

Flow depth and velocity measurements recorded by the flow monitor are consistent with field confirmations conducted to date and support the relative accuracy of the flow monitor at this location.

Observations

Average flow depth, velocity, and quantity data observed during Friday, December 20, 2019 to Friday, January 17, 2020, along with observed minimum and maximum data, are provided in the following table.

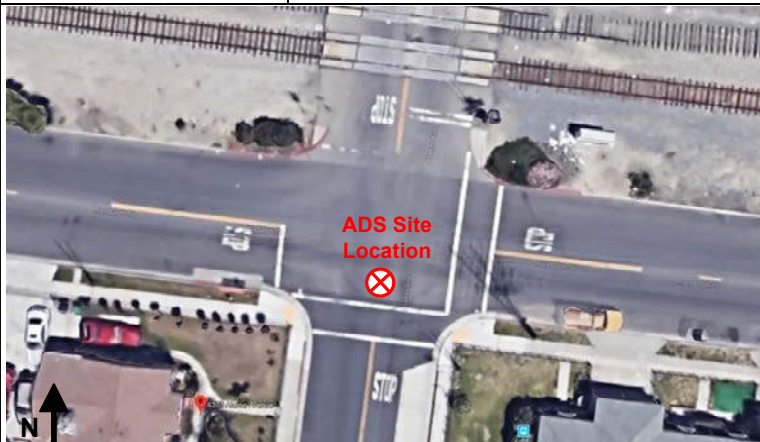
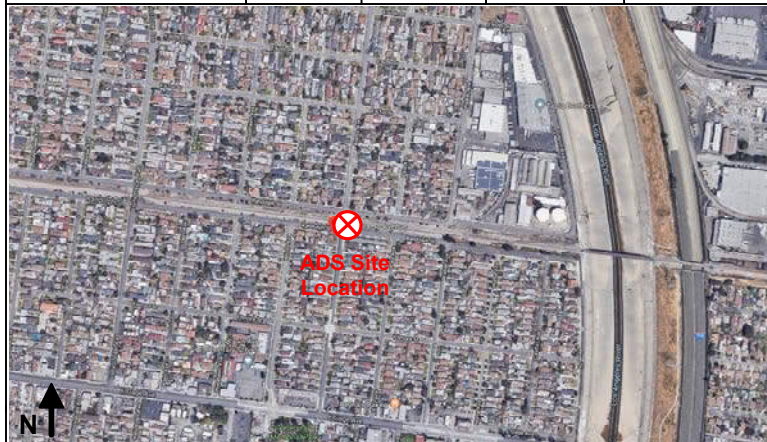
Observed Flow Conditions			
Item	Depth (in)	Velocity (ft/s)	Quantity (MGD)
Average	5.85	1.62	0.476
Minimum	3.38	0.67	0.116
Maximum	43.63	2.82	1.750
Time of Minimum	1/12/2020 4:50 AM	1/1/2020 6:05 AM	12/22/2019 4:50 AM
Time of Maximum	12/26/2019 2:35 AM	12/25/2019 11:50 PM	12/26/2019 2:30 AM

Data Quality

Data uptime observed during the Friday, December 20, 2019 to the Friday, January 17, 2020 monitoring period is provided in the table below. Based upon the quality and consistency of the observed flow depth and velocity data, the Continuity equation was used to calculate flow rate and quantities during the monitoring period.

Percent Uptime	
Depth (in)	100
Velocity (ft/s)	100
Quantity (MGD)	100

Project Name: Maywood Psomas TFM 2020		City: Maywood		Agency: Maywood		FM Initials: SK	
Site Name: MH1185		Install Date: 12/19/19		Monitor Type		Peak Doppler	
Address/Location: 6203 Alamo Ave				Monitor Model		Triton+ (8000)	
				Data Acquisition		Manual Collect	
				Manhole ID		MH1185	
Access: Drive		Type of System:		Pipe Height:		15.13 "	
		Sanitary ☒ Storm ☐ Combined ☐		Pipe Width:		15.00 "	



Investigation Information:				Manhole Information:			
Date/Time of Investigation:		4/29/19 @ 1100		Manhole Depth:		10'	
Site Hydraulics:		Good straight through flow		Manhole Material / Condition		Brick/OK	
Upstream Input: (L/S, P/S)		DNI		Pipe Material / Condition: VCP/Good			
Upstream Manhole:		DNI		Land Use:	Residential ☐	Commercial ☒	Industrial ☐ Trunk ☐
Downstream Manhole:		DNI		Oxygen: 20.9	H2S: 0	LEL: 0	CO: 0
Depth of Flow:	6.88 " +/- 0.13"			Safety Notes: 2 man crew required and one blower is to be operated at all times.			
Range (Air DOF):	+/-						
Peak Velocity:	1.85 fps						
Silt:	0.00 Inches						

Other Information:			

Installation Information		Backup		Yes	No	?	Distance
Installation Type: Standard		Trunk		☐	☒	☐	
Sensors Devices: Ultrasonic / Pressure/ Velocity		Lift / Pump Station		☐	☒	☐	
Surcharge Height: 0		WWTP		☐	☒	☐	
Rain Gauge Zone:		Other		☐	☒	☐	

Additional Site Information / Comments:

Standard Traffic Control with No Safety Concerns

SCATTERGRAPH REPORT

MH1185

Flow Monitor

MH1185

Pipe Height
15.13 in

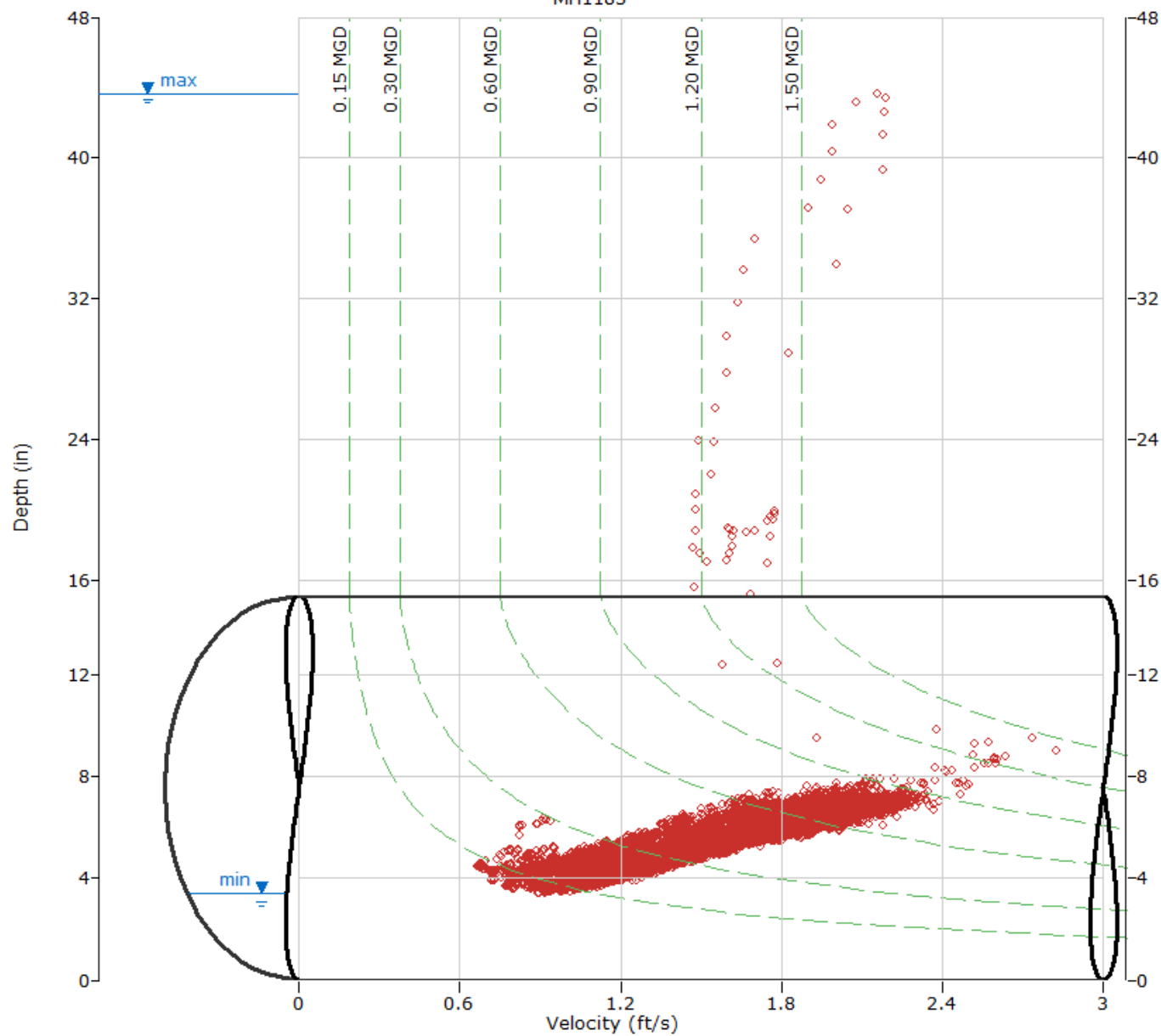
Report Period

12/20/2019
To
1/17/2020

Legend

- Depth - Velocity
- Iso-Q™
- Silt
- ▼ Min-Max Depth

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HYDROGRAPH REPORT

MH1185

Flow Monitor

MH1185

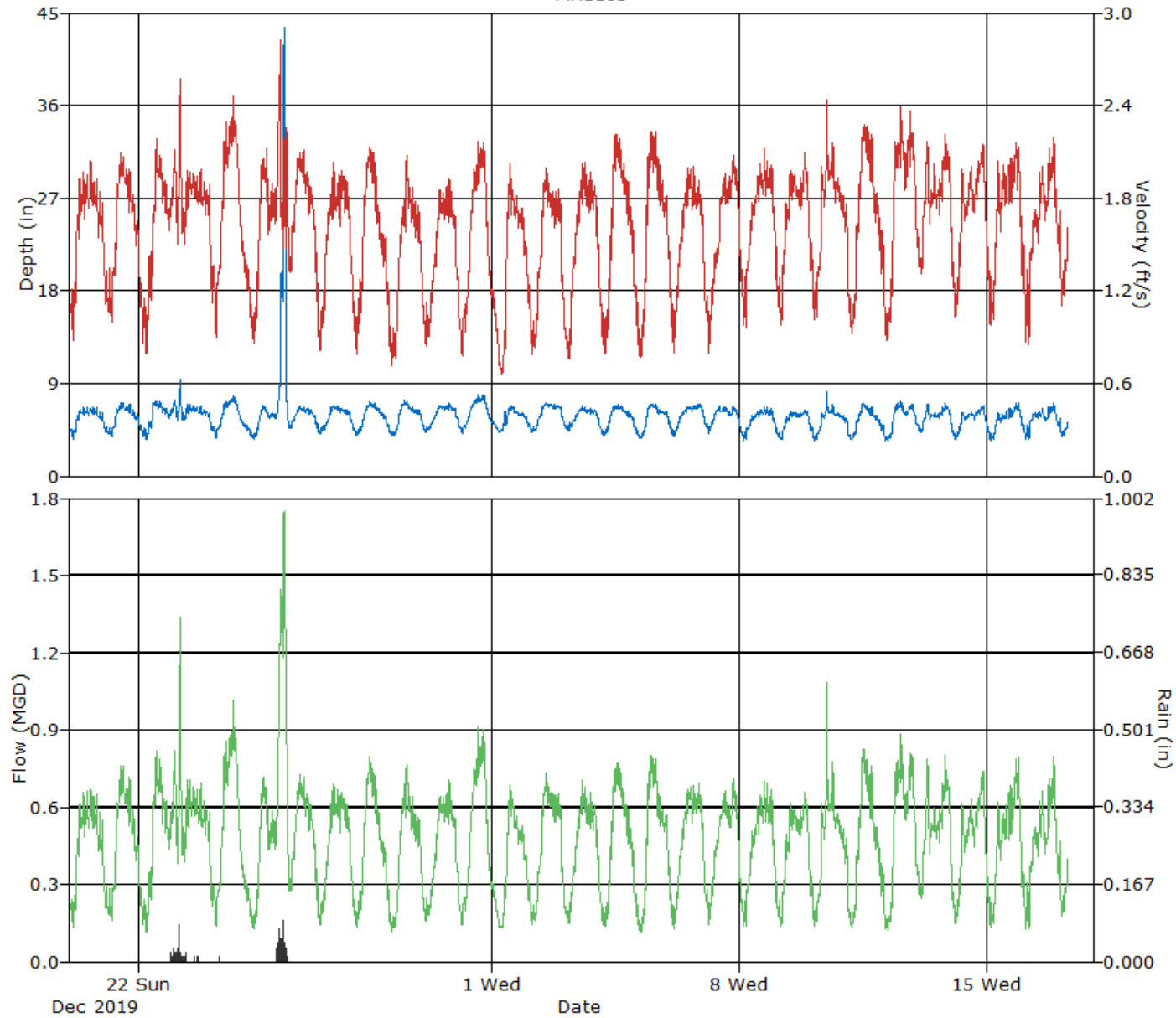
Pipe Height
15.13 in.

Report Period

12/20/2019
To
1/17/2020

Legend

- Depth
- Velocity
- Quantity
- Rain



Daily Tabular Report For The Period 12/20/2019 00:00 - 01/17/2020 23:59

MH1185, Pipe Height: 15.13 in, Silt: 0.00 in

Daily Tabular Report

Date	Depth (in)					Velocity (ft/s)					Quantity (MGD - Total MG)						Rain (in)
	Time	Min	Time	Max	Avg	Time	Min	Time	Max	Avg	Time	Min	Time	Max	Avg	Total	Total
12/20/2019	03:05	3.61	12:50	6.68	5.71	03:00	0.88	15:05	2.04	1.63	03:05	0.130	15:05	0.666	0.465	0.465	0.00
12/21/2019	05:30	3.84	13:30	7.12	5.73	05:35	1.00	11:10	2.10	1.62	05:30	0.159	11:10	0.762	0.472	0.472	
12/22/2019	04:55	3.60	13:45	7.26	5.81	04:50	0.80	12:00	2.19	1.57	04:50	0.116	12:00	0.819	0.471	0.471	0.44
12/23/2019	01:50	5.35	03:40	9.36	6.35	06:40	1.50	03:40	2.57	1.84	01:50	0.380	03:40	1.337	0.591	0.591	1.05
12/24/2019	04:15	3.75	15:50	7.75	5.86	04:15	0.90	15:45	2.47	1.74	04:15	0.139	15:50	1.015	0.529	0.529	0.01
12/25/2019	05:45	3.63	23:55	9.50	5.52	05:50	0.86	23:50	2.82	1.60	05:50	0.127	23:55	1.448	0.458	0.458	1.07
12/26/2019	06:55	4.60	02:35	43.63	9.30	06:55	1.32	00:00	2.38	1.79	06:55	0.271	02:30	1.750	0.684	0.684	1.50
12/27/2019	03:30	4.13	14:25	6.84	5.76	02:30	0.82	12:10	2.03	1.56	03:30	0.145	12:10	0.689	0.455	0.455	
12/28/2019	04:05	3.95	12:55	7.19	5.79	04:05	0.79	12:35	2.13	1.54	04:05	0.131	12:55	0.799	0.458	0.458	
12/29/2019	03:45	3.93	11:55	7.40	5.79	03:45	0.72	13:30	2.08	1.43	03:45	0.118	13:45	0.767	0.429	0.429	
12/30/2019	02:45	4.21	18:40	7.11	5.91	02:45	0.84	18:45	1.92	1.46	02:45	0.152	18:45	0.704	0.441	0.441	
12/31/2019	03:20	4.17	18:00	7.89	6.16	03:35	0.78	14:15	2.17	1.51	03:35	0.141	14:15	0.912	0.497	0.497	
01/01/2020	04:30	4.22	12:25	6.83	5.58	06:05	0.67	12:10	2.02	1.36	05:35	0.130	12:15	0.684	0.384	0.384	
01/02/2020	03:05	4.21	12:40	7.14	6.01	03:20	0.79	12:30	2.00	1.48	03:20	0.143	12:30	0.735	0.461	0.461	
01/03/2020	04:20	4.39	12:50	6.82	5.81	04:25	0.76	14:25	2.04	1.54	04:20	0.147	12:50	0.708	0.451	0.451	
01/04/2020	03:10	3.93	13:25	6.99	5.73	04:25	0.79	11:30	2.21	1.59	04:50	0.139	12:50	0.772	0.469	0.469	
01/05/2020	04:25	3.71	12:00	7.02	5.62	04:20	0.77	11:30	2.23	1.60	04:20	0.118	11:35	0.803	0.464	0.464	
01/06/2020	03:20	3.85	20:10	7.01	5.87	03:20	0.80	16:25	2.01	1.57	03:20	0.128	20:10	0.696	0.471	0.471	
01/07/2020	03:00	4.14	10:10	6.77	5.86	03:00	0.79	20:10	2.08	1.58	03:00	0.141	20:10	0.710	0.466	0.466	
01/08/2020	02:45	3.48	16:35	6.75	5.49	04:20	0.96	16:20	2.12	1.67	02:45	0.135	16:25	0.699	0.456	0.456	
01/09/2020	04:20	3.53	20:30	6.39	5.40	03:55	0.97	20:15	2.09	1.67	03:55	0.139	20:15	0.657	0.443	0.443	
01/10/2020	02:50	3.44	11:05	8.23	5.46	02:45	1.01	11:05	2.44	1.70	02:45	0.138	11:05	1.083	0.463	0.463	
01/11/2020	04:30	3.53	11:35	7.12	5.53	04:20	0.92	12:15	2.28	1.70	04:30	0.131	12:15	0.824	0.479	0.479	
01/12/2020	04:50	3.38	13:15	7.26	5.64	04:00	0.87	13:10	2.39	1.76	04:40	0.119	13:15	0.882	0.516	0.516	
01/13/2020	03:15	4.29	19:50	7.09	5.78	03:15	1.31	19:40	2.21	1.80	03:15	0.244	19:40	0.805	0.515	0.515	
01/14/2020	03:10	3.58	21:40	6.78	5.47	02:15	1.03	21:20	2.15	1.69	02:15	0.150	21:20	0.737	0.461	0.461	
01/15/2020	02:15	3.44	21:30	7.14	5.53	02:15	0.97	19:20	2.15	1.70	02:15	0.133	21:30	0.792	0.471	0.471	
01/16/2020	02:30	3.58	21:25	7.08	5.60	04:25	0.85	21:20	2.19	1.64	02:30	0.125	21:20	0.799	0.460	0.460	
01/17/2020	03:05	3.79	01:35	5.64	4.60	03:00	1.11	01:30	1.72	1.39	03:00	0.175	01:30	0.466	0.291	0.082	

Report Summary For The Period 12/20/2019 00:00 - 01/17/2020 23:59

	Depth (in)	Velocity (ft/s)	Quantity (MGD - Total MG)	Rain (in)
Total			13.463	4.07
Avg	5.85	1.62	0.476	

Site Commentary

Site Information

MH390	
Pipe Dimensions	7.88
Silt Level	0.00"

Overview

Site MH390 functioned under normal conditions during the period Friday, December 20, 2019 to Friday, January 17, 2020. This site exhibited an observable response to the wet weather events of December 22, 2019 - December 23, 2019 and December 25, 2019 - December 26, 2019. No surcharge conditions were experienced at this location. Review of the scattergraph shows that free flow conditions were maintained throughout the study period.

Flow depth and velocity measurements recorded by the flow monitor are consistent with field confirmations conducted to date and support the relative accuracy of the flow monitor at this location.

This location along with VernonB2 was positioned upstream of MH972 (See MH972 Site Commentary For More Details).

Observations

Average flow depth, velocity, and quantity data observed during Friday, December 20, 2019 to Friday, January 17, 2020, along with observed minimum and maximum data, are provided in the following table.

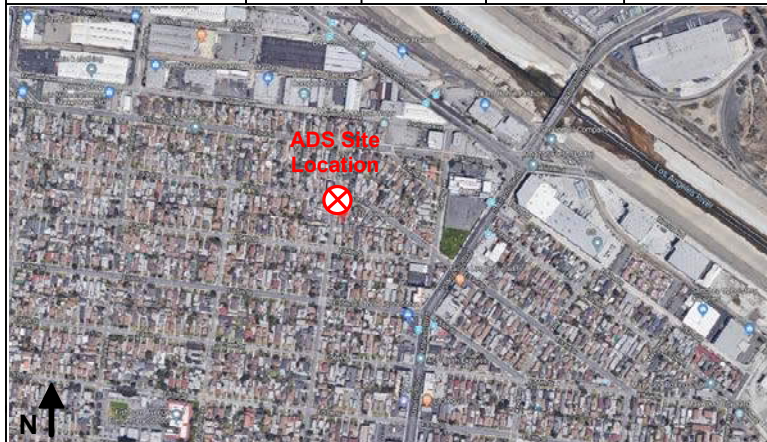
Observed Flow Conditions			
Item	Depth (in)	Velocity (ft/s)	Quantity (MGD)
Average	2.96	1.17	0.096
Minimum	1.80	0.45	0.019
Maximum	6.01	2.77	0.502
Time of Minimum	12/25/2019 5:10 AM	12/22/2019 7:00 AM	1/3/2020 3:40 AM
Time of Maximum	12/26/2019 2:00 AM	12/26/2019 2:05 AM	12/26/2019 2:00 AM

Data Quality

Data uptime observed during the Friday, December 20, 2019 to the Friday, January 17, 2020 monitoring period is provided in the table below. Based upon the quality and consistency of the observed flow depth and velocity data, the Continuity equation was used to calculate flow rate and quantities during the monitoring period.

Percent Uptime	
Depth (in)	100
Velocity (ft/s)	100
Quantity (MGD)	100

Project Name: Maywood Psomas TFM 2020		City: Maywood		Agency: Maywood		FM Initials: SK	
Site Name: MH390		Install Date: 12/19/19		Monitor Type		Peak Doppler	
Address/Location: 5310 Pine Ave				Monitor Model		Triton+ (8000)	
				Data Acquisition		Manual Collect	
				Manhole ID		MH390	
Access: Drive		Type of System:		Pipe Height:		21.00 "	
		Sanitary ☒		Storm ☐		Combined ☐	
				Pipe Width:		20.88 "	



Investigation Information:				Manhole Information:			
Date/Time of Investigation:		4/29/19 @ 0940		Manhole Depth:		7'	
Site Hydraulics:		Good straight through flow		Manhole Material / Condition		Brick/OK	
Upstream Input: (L/S, P/S)		DNI		Pipe Material / Condition: VCP/Good			
Upstream Manhole:		DNI		Land Use:	Residential ☒	Commercial ☐	Industrial ☐
Downstream Manhole:		DNI		Oxygen: 20.9	H2S: 0	LEL: 0	CO: 0
Depth of Flow:	3.00 " +/- 0.13"			Safety Notes: 2 man crew required and one blower is to be operated at all times.			
Range (Air DOF):	+/-						
Peak Velocity:	1.57 fps						
Silt:	0.00 Inches						

Other Information:			

Installation Information		Backup	Yes	No	?	Distance
Installation Type:	Standard	Trunk	☐	☒	☐	
Sensors Devices:	Ultrasonic / Pressure/ Velocity	Lift / Pump Station	☐	☒	☐	
Surcharge Height:	0	WWTP	☐	☒	☐	
Rain Gauge Zone:		Other	☐	☒	☐	

Additional Site Information / Comments:

Standard Traffic Control with No Safety Concerns

SCATTERGRAPH REPORT

MH390

Flow Monitor

MH390

Pipe Height
7.88 in

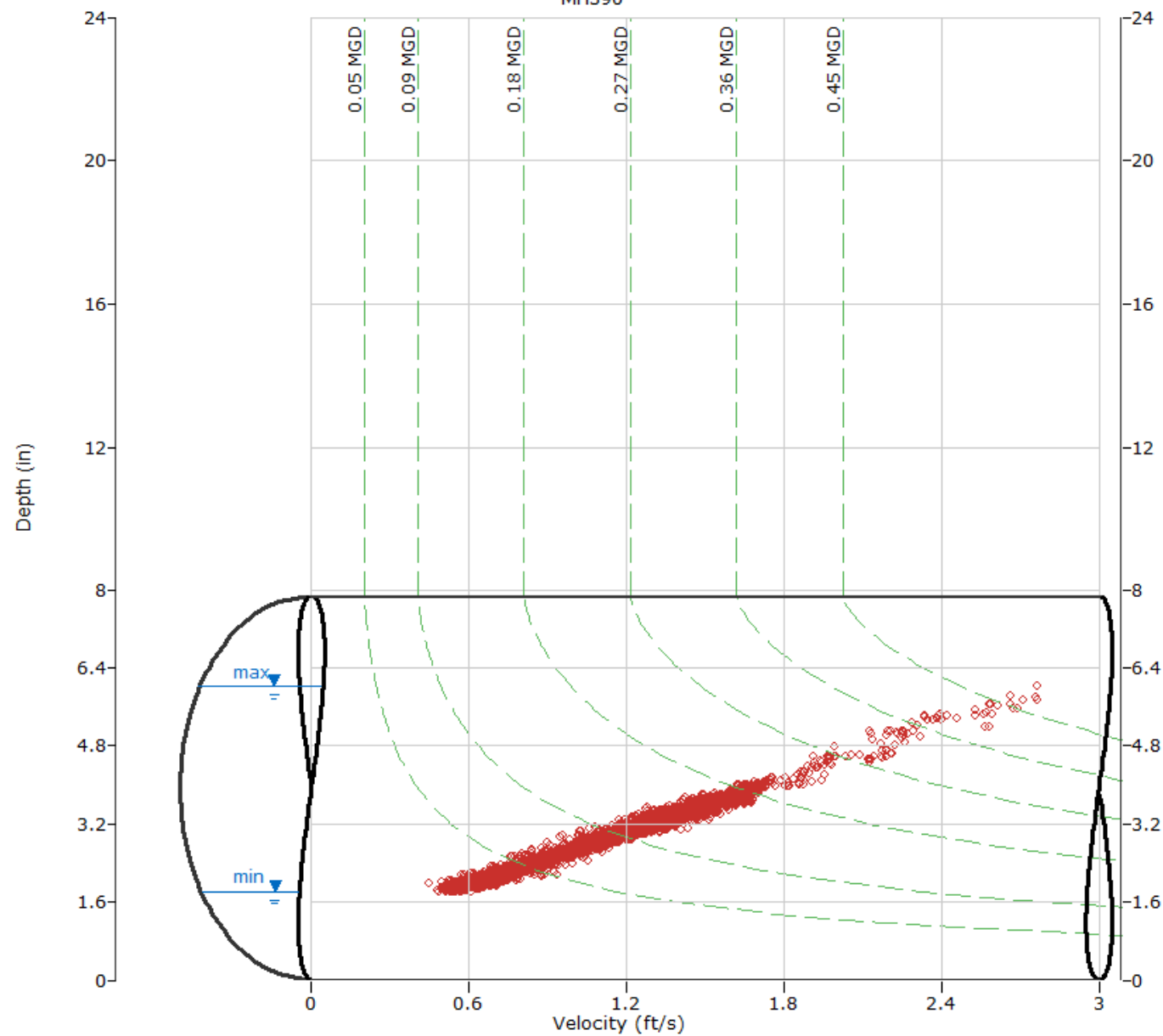
Report Period

12/20/2019
To
1/17/2020

Legend

- Depth - Velocity
- Iso-Q™
- Silt
- ▼ Min-Max Depth

ADS ENVIRONMENTAL
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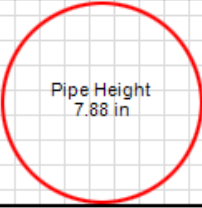


HYDROGRAPH REPORT

MH390

Flow Monitor

MH390



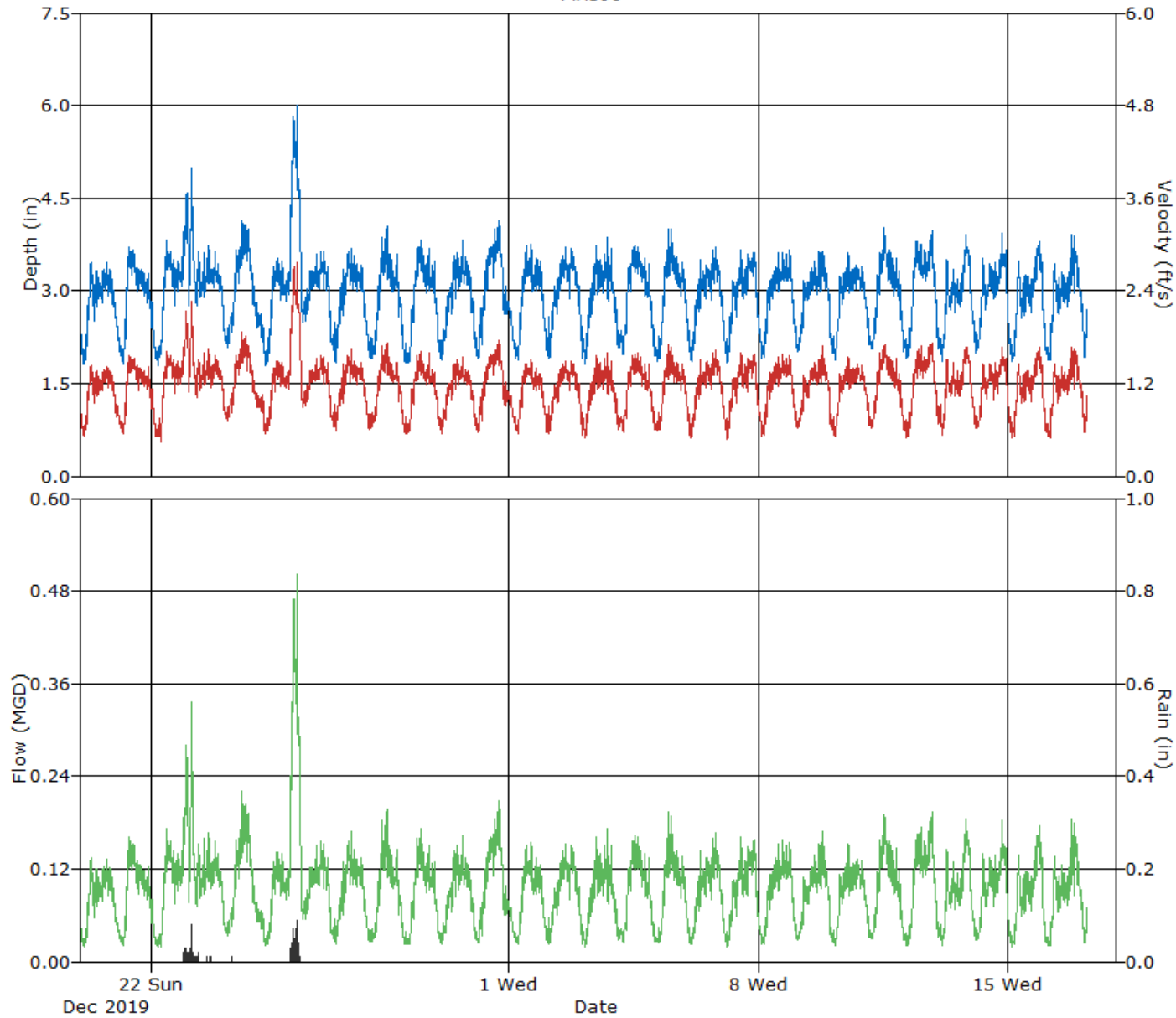
Pipe Height
7.88 in

Report Period

12/20/2019
To
1/17/2020

Legend

- Depth
- Velocity
- Quantity
- Rain



Daily Tabular Report For The Period 12/20/2019 00:00 - 01/17/2020 23:59

MH390, Pipe Height: 7.88 in, Silt: 0.00 in

Daily Tabular Report

Date	Depth (in)					Velocity (ft/s)					Quantity (MGD - Total MG)						Rain (in)
	Time	Min	Time	Max	Avg	Time	Min	Time	Max	Avg	Time	Min	Time	Max	Avg	Total	
12/20/2019	02:35	1.80	07:45	3.46	2.83	03:30	0.52	07:45	1.43	1.10	03:30	0.020	07:45	0.134	0.083	0.083	0.00
12/21/2019	05:00	1.81	09:25	3.71	2.89	05:05	0.54	09:25	1.57	1.14	05:00	0.021	09:25	0.161	0.089	0.089	
12/22/2019	04:50	1.80	23:55	4.57	2.98	07:00	0.45	23:45	2.13	1.19	07:00	0.019	23:45	0.281	0.100	0.100	0.44
12/23/2019	06:30	2.76	03:20	4.99	3.35	06:30	1.02	03:25	2.26	1.41	06:30	0.071	03:20	0.335	0.130	0.130	1.05
12/24/2019	03:50	2.08	12:45	4.13	3.05	03:50	0.71	12:40	1.87	1.24	03:50	0.033	12:45	0.220	0.106	0.106	0.01
12/25/2019	05:10	1.80	23:50	5.83	3.01	05:05	0.55	23:55	2.71	1.21	05:10	0.021	23:50	0.470	0.107	0.107	1.07
12/26/2019	06:00	2.50	02:00	6.01	3.46	06:00	0.89	02:05	2.77	1.44	06:00	0.054	02:00	0.502	0.148	0.148	1.50
12/27/2019	04:05	1.84	14:40	3.68	2.90	04:05	0.59	14:40	1.65	1.16	04:05	0.023	14:40	0.168	0.091	0.091	
12/28/2019	04:55	1.90	14:55	4.04	2.89	03:00	0.60	14:55	1.72	1.16	03:20	0.026	14:55	0.198	0.092	0.092	
12/29/2019	05:00	1.83	13:10	3.81	2.88	03:30	0.55	13:15	1.62	1.12	03:30	0.022	13:10	0.172	0.089	0.089	
12/30/2019	03:20	1.88	16:55	3.81	2.91	03:15	0.55	16:55	1.54	1.12	03:20	0.022	16:55	0.164	0.088	0.088	
12/31/2019	03:20	1.90	18:00	4.13	3.03	03:20	0.58	18:00	1.76	1.19	03:20	0.024	18:00	0.207	0.101	0.101	
01/01/2020	06:40	1.87	15:25	3.75	2.89	06:20	0.55	15:10	1.50	1.10	06:40	0.022	15:25	0.154	0.086	0.086	
01/02/2020	03:00	1.91	14:10	3.71	2.95	03:00	0.54	14:10	1.48	1.11	03:00	0.022	14:10	0.152	0.089	0.089	
01/03/2020	03:40	1.81	18:55	3.85	2.92	03:40	0.49	18:55	1.59	1.11	03:40	0.019	18:55	0.172	0.087	0.087	
01/04/2020	05:45	1.97	13:35	3.72	2.96	05:45	0.58	14:50	1.59	1.14	05:45	0.025	13:35	0.164	0.093	0.093	
01/05/2020	04:30	1.87	11:55	4.01	2.94	04:05	0.59	11:55	1.70	1.15	05:15	0.025	11:55	0.193	0.093	0.093	
01/06/2020	03:40	1.86	19:00	3.70	2.92	03:00	0.50	19:00	1.63	1.16	02:25	0.022	19:00	0.167	0.092	0.092	
01/07/2020	03:20	1.84	12:05	3.65	2.94	03:20	0.48	12:05	1.59	1.17	03:20	0.019	12:05	0.160	0.093	0.093	
01/08/2020	02:25	1.91	20:50	3.65	2.94	02:20	0.52	16:15	1.58	1.16	02:20	0.022	16:15	0.157	0.092	0.092	
01/09/2020	02:20	2.02	19:35	3.65	2.93	02:25	0.62	19:35	1.68	1.15	02:25	0.029	19:35	0.169	0.090	0.090	
01/10/2020	03:50	1.88	11:55	3.61	2.90	03:50	0.52	11:55	1.53	1.14	03:50	0.021	11:55	0.152	0.089	0.089	
01/11/2020	04:40	2.05	12:10	4.01	3.00	03:40	0.63	13:35	1.70	1.20	04:30	0.029	12:10	0.191	0.098	0.098	
01/12/2020	03:45	1.89	20:55	3.97	3.02	03:45	0.50	20:55	1.72	1.19	03:45	0.020	20:55	0.193	0.102	0.102	
01/13/2020	03:35	1.87	19:15	3.91	2.90	03:35	0.54	19:15	1.67	1.16	03:35	0.022	19:15	0.184	0.091	0.091	
01/14/2020	02:25	1.99	19:40	3.92	2.95	02:30	0.62	19:40	1.66	1.16	02:25	0.027	19:40	0.183	0.093	0.093	
01/15/2020	02:30	1.85	21:25	3.80	2.87	02:30	0.50	21:25	1.66	1.12	02:30	0.020	21:25	0.176	0.088	0.088	
01/16/2020	03:30	1.89	18:55	3.92	2.89	04:20	0.50	18:55	1.67	1.13	04:20	0.021	18:55	0.184	0.089	0.089	
01/17/2020	03:35	1.93	00:35	3.03	2.48	03:25	0.56	00:20	1.22	0.89	03:25	0.024	00:35	0.096	0.056	0.012	

Report Summary For The Period 12/20/2019 00:00 - 01/17/2020 23:59

	Depth (in)	Velocity (ft/s)	Quantity (MGD - Total MG)	Rain (in)
Total			2.701	4.07
Avg	2.96	1.17	0.096	

Site Commentary

Site Information

MH972	
Pipe Dimensions	23.5
Silt Level	0.00"

Overview

Site MH972 functioned under normal conditions during the period Friday, December 20, 2019 to Friday, January 17, 2020. This site exhibited an observable response to the wet weather events of December 22, 2019 - December 23, 2019 and December 25, 2019 - December 26, 2019. No surcharge conditions were experienced at this location. Review of the scattergraph shows that free flow conditions were maintained throughout the study period.

Flow depth and velocity measurements recorded by the flow monitor are consistent with field confirmations conducted to date and support the relative accuracy of the flow monitor at this location.

This site was positioned downstream of locations MH390 and VernonB2. A check of balancing shows an average net flow of 0.573 mgd.

Observations

Average flow depth, velocity, and quantity data observed during Friday, December 20, 2019 to Friday, January 17, 2020, along with observed minimum and maximum data, are provided in the following table.

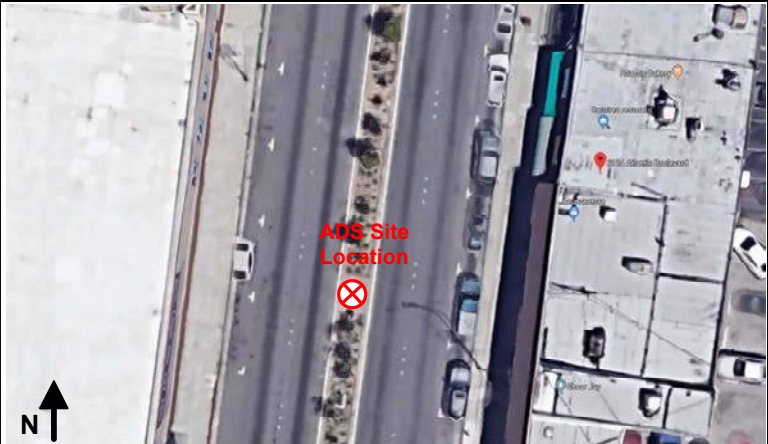
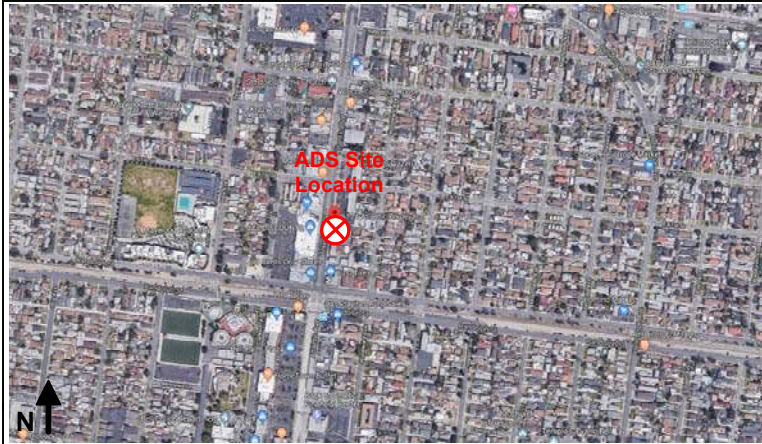
Observed Flow Conditions			
Item	Depth (in)	Velocity (ft/s)	Quantity (MGD)
Average	6.17	2.17	0.965
Minimum	3.15	0.94	0.149
Maximum	15.00	3.45	4.319
Time of Minimum	1/15/2020 3:20 AM	1/15/2020 3:20 AM	1/15/2020 3:20 AM
Time of Maximum	12/26/2019 2:10 AM	12/26/2019 1:50 AM	12/26/2019 2:10 AM

Data Quality

Data uptime observed during the Friday, December 20, 2019 to the Friday, January 17, 2020 monitoring period is provided in the table below. Based upon the quality and consistency of the observed flow depth and velocity data, the Continuity equation was used to calculate flow rate and quantities during the monitoring period.

Percent Uptime	
Depth (in)	100
Velocity (ft/s)	100
Quantity (MGD)	100

Project Name: Maywood Psomas TFM 2020		City: Maywood		Agency: Maywood		FM Initials: SK	
Site Name: MH972		Install Date: 12/19/19		Monitor Type		Peak Doppler	
Address/Location: 6124 Atlantic Blvd				Monitor Model		Triton+ (8000)	
				Data Acquisition		Manual Collect	
				Manhole ID		MH972	
Access: Drive		Type of System:		Pipe Height:		23.50 "	
		Sanitary ☒ Storm ☐ Combined ☐		Pipe Width:		23.63 "	



Investigation Information:				Manhole Information:			
Date/Time of Investigation:		4/29/19 @ 1035		Manhole Depth:		15'	
Site Hydraulics:		Good straight through flow		Manhole Material / Condition		Brick/OK	
Upstream Input: (L/S, P/S)		DNI		Pipe Material / Condition: VCP/Good			
Upstream Manhole:		DNI		Land Use:		Residential ☐ Commercial ☒ Industrial ☐ Trunk ☐	
Downstream Manhole:		DNI		Oxygen: 20.9		H2S: 0	
Depth of Flow:		4.50 " +/- 0.13"		LEL: 0		CO: 0	
Range (Air DOF):		+/-		Safety Notes: 2 man crew required and one blowers are to be operated at all times.			
Peak Velocity:		1.98 fps					
Silt:		0.00 Inches					

Other Information:			
		Cross Section	
		Plan	

Installation Information		Backup		Yes	No	?	Distance
Installation Type: Standard		Trunk		☐	☒	☐	
Sensors Devices: Ultrasonic / Pressure/ Velocity		Lift / Pump Station		☐	☒	☐	
Surcharge Height: 0		WWTP		☐	☒	☐	
Rain Gauge Zone:		Other		☐	☒	☐	

Additional Site Information / Comments:

Standard Traffic Control with No Safety Concerns

SCATTERGRAPH REPORT

MH972

Flow Monitor

MH972

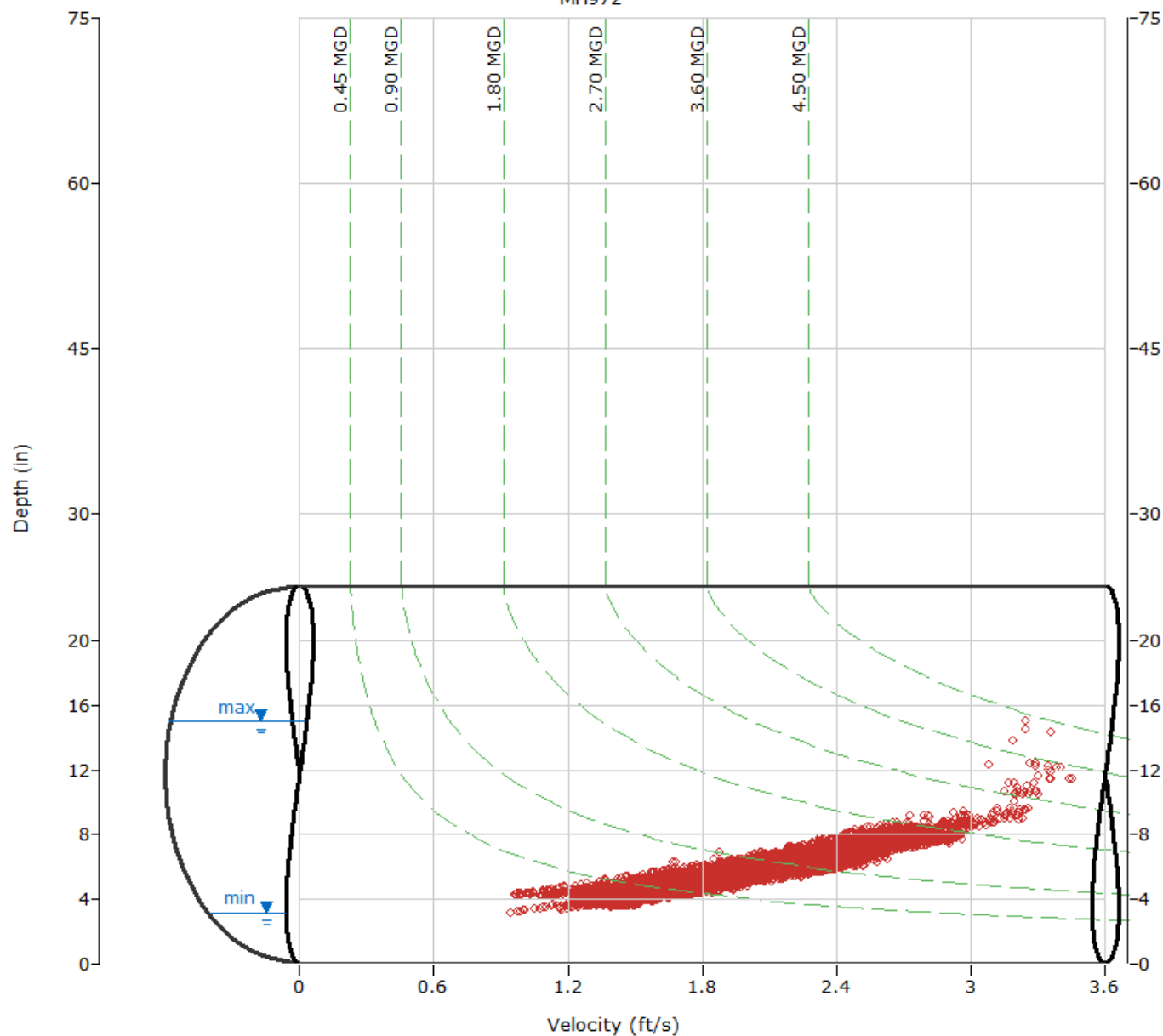
Pipe Height
23.50 in

Report Period

12/20/2019
To
1/17/2020

Legend

- Depth - Velocity
- Iso-Q™
- Silt
- ▼ Min-Max Depth



HYDROGRAPH REPORT

MH972

Flow Monitor

MH972

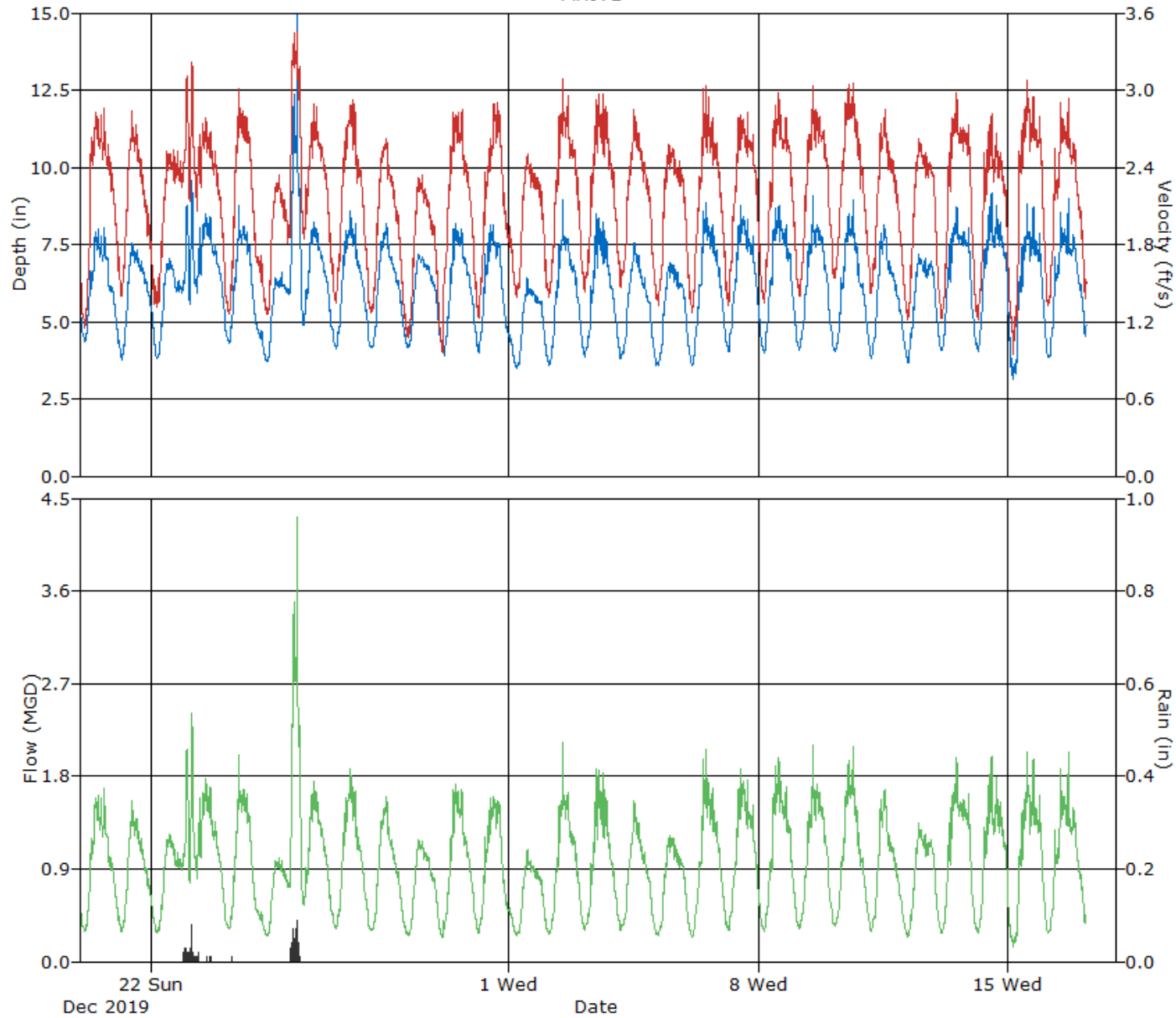
Pipe Height
23.50 in

Report Period

12/20/2019
To
1/17/2020

Legend

— Depth
— Velocity
— Quantity
— Rain



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Daily Tabular Report For The Period 12/20/2019 00:00 - 01/17/2020 23:59

MH972, Pipe Height: 23.50 in, Silt: 0.00 in

Daily Tabular Report

Date	Depth (in)					Velocity (ft/s)					Quantity (MGD - Total MG)						Rain (in)
	Time	Min	Time	Max	Avg	Time	Min	Time	Max	Avg	Time	Min	Time	Max	Avg	Total	
12/20/2019	03:15	4.36	16:35	8.03	6.27	03:15	1.15	16:15	2.86	2.18	03:15	0.289	16:15	1.684	0.979	0.979	0.00
12/21/2019	04:25	3.77	10:45	7.55	5.92	04:05	1.40	10:50	2.84	2.13	04:05	0.294	10:50	1.557	0.878	0.878	
12/22/2019	04:05	3.80	23:55	8.72	5.78	04:10	1.31	23:55	3.06	2.10	04:10	0.272	23:55	2.042	0.840	0.840	0.44
12/23/2019	01:55	5.58	03:30	9.57	7.28	23:55	1.86	03:40	3.21	2.47	23:55	0.707	03:35	2.411	1.311	1.311	1.05
12/24/2019	04:45	4.31	10:45	8.74	6.22	04:45	1.25	10:45	3.01	2.13	04:45	0.311	10:45	2.013	0.963	0.963	0.01
12/25/2019	06:10	3.70	23:55	12.23	5.65	06:30	1.26	23:50	3.36	1.95	06:10	0.253	23:55	3.480	0.790	0.790	1.07
12/26/2019	06:20	4.88	02:10	15.00	7.44	23:55	1.82	01:50	3.45	2.53	06:30	0.551	02:10	4.319	1.437	1.437	1.50
12/27/2019	04:35	4.10	14:05	8.57	6.32	04:35	1.35	16:00	2.92	2.18	04:35	0.311	14:05	1.873	0.998	0.998	
12/28/2019	04:05	4.17	14:20	8.19	6.18	03:55	1.27	14:05	2.62	1.99	03:55	0.301	14:20	1.607	0.880	0.880	
12/29/2019	04:30	4.15	11:35	7.18	5.93	04:40	1.08	14:00	2.34	1.80	04:40	0.254	11:35	1.186	0.747	0.747	
12/30/2019	05:05	3.87	12:40	8.20	6.18	03:55	0.96	17:00	2.85	2.12	04:00	0.232	12:40	1.719	0.950	0.950	
12/31/2019	04:10	3.99	14:00	8.14	6.10	04:10	1.23	16:50	2.91	2.14	04:10	0.273	14:15	1.606	0.932	0.932	
01/01/2020	06:00	3.51	12:10	6.44	5.05	06:00	1.39	13:10	2.50	2.03	06:00	0.257	13:10	1.086	0.663	0.663	
01/02/2020	03:25	3.57	12:40	8.94	5.96	03:30	1.39	12:40	3.09	2.24	03:30	0.263	12:40	2.130	0.954	0.954	
01/03/2020	03:25	3.87	11:30	8.47	6.06	03:20	1.44	12:55	2.97	2.26	03:25	0.306	11:30	1.872	0.978	0.978	
01/04/2020	03:30	3.81	13:00	7.57	5.70	03:25	1.47	11:55	2.85	2.19	03:30	0.305	12:00	1.559	0.855	0.855	
01/05/2020	04:55	3.57	12:35	6.91	5.46	04:50	1.33	12:00	2.58	2.06	04:55	0.251	12:25	1.229	0.763	0.763	
01/06/2020	03:35	3.58	13:10	8.85	6.23	03:35	1.27	13:15	3.03	2.20	03:35	0.241	13:15	2.059	1.006	1.006	
01/07/2020	04:15	4.02	12:00	8.77	6.46	03:55	1.32	17:00	2.83	2.22	04:00	0.299	12:00	1.877	1.050	1.050	
01/08/2020	04:15	3.97	13:55	8.74	6.46	04:10	1.34	13:50	2.97	2.24	04:10	0.296	13:50	1.974	1.062	1.062	
01/09/2020	03:30	4.08	12:40	9.08	6.39	04:05	1.40	12:45	3.03	2.28	03:20	0.323	12:45	2.108	1.061	1.061	
01/10/2020	03:35	4.03	15:35	8.92	6.24	03:35	1.54	15:40	3.05	2.34	03:35	0.346	15:40	2.082	1.052	1.052	
01/11/2020	04:15	3.80	12:15	8.13	5.95	03:30	1.42	13:30	2.85	2.16	04:10	0.295	13:30	1.670	0.901	0.901	
01/12/2020	04:45	3.69	12:15	7.18	5.80	04:35	1.21	12:15	2.63	2.06	04:40	0.241	12:15	1.341	0.834	0.834	
01/13/2020	02:50	4.08	13:25	8.72	6.57	03:35	1.22	13:25	2.97	2.23	02:50	0.281	13:25	1.983	1.087	1.087	
01/14/2020	03:55	4.01	13:05	9.15	6.69	03:55	1.22	12:55	2.82	2.10	03:55	0.273	13:00	1.999	1.041	1.041	
01/15/2020	03:20	3.15	12:35	8.80	6.22	03:20	0.94	12:30	3.07	2.22	03:20	0.149	12:35	2.028	1.034	1.034	
01/16/2020	03:00	3.84	16:20	8.97	6.40	02:55	1.33	16:20	2.93	2.22	02:55	0.280	16:20	2.032	1.035	1.035	
01/17/2020	03:55	4.54	00:30	6.23	5.40	03:45	1.38	00:25	2.09	1.73	03:55	0.369	00:30	0.875	0.605	0.116	

Report Summary For The Period 12/20/2019 00:00 - 01/17/2020 23:59

	Depth (in)	Velocity (ft/s)	Quantity (MGD - Total MG)	Rain (in)
Total			27.196	4.07
Avg	6.17	2.17	0.965	

Site Commentary

Site Information

VernonB2	
Pipe Dimensions	21
Silt Level	0.00"

Overview

Site VernonB2 functioned under normal conditions during the period Friday, December 20, 2019 to Friday, January 17, 2020 . The flow pattern at this location varies between weekdays and weekends. Decreased flow is reported during the weekends indicating that the area monitored by this line is comprised of some portion of non-residential contributors.

This site exhibited an observable response to the wet weather events of December 22, 2019 - December 23, 2019 and December 25, 2019 - December 26, 2019. No surcharge conditions were experienced at this location. Review of the scattergraph shows that free flow conditions were maintained throughout the study period.

Flow depth and velocity measurements recorded by the flow monitor are consistent with field confirmations conducted to date and support the relative accuracy of the flow monitor at this location.

This location along with MH390 was positioned upstream of MH972 (See MH972 Site Commentary For More Details).

Observations

Average flow depth, velocity, and quantity data observed during Friday, December 20, 2019 to Friday, January 17, 2020 , along with observed minimum and maximum data, are provided in the following table.

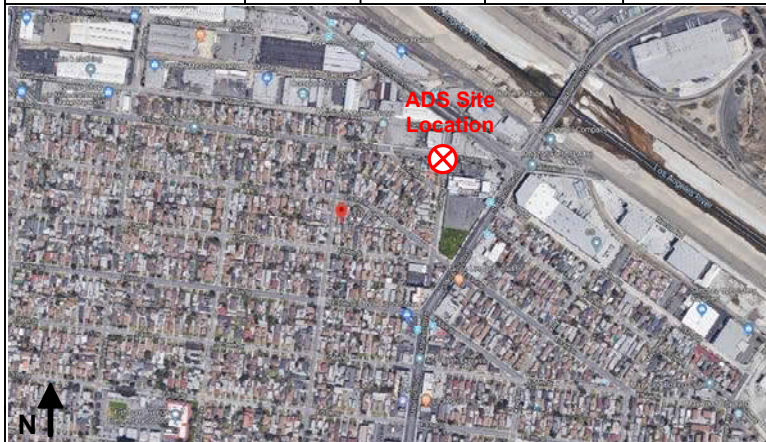
Observed Flow Conditions			
Item	Depth (in)	Velocity (ft/s)	Quantity (MGD)
Average	3.08	1.88	0.298
Minimum	1.97	0.59	0.045
Maximum	6.08	3.43	1.230
Time of Minimum	1/16/2020 10:05 PM	1/1/2020 10:15 AM	1/1/2020 10:15 AM
Time of Maximum	1/10/2020 3:20 PM	1/7/2020 4:30 PM	1/10/2020 3:20 PM

Data Quality

Data uptime observed during the Friday, December 20, 2019 to the Friday, January 17, 2020 monitoring period is provided in the table below. Based upon the quality and consistency of the observed flow depth and velocity data, the Continuity equation was used to calculate flow rate and quantities during the monitoring period.

Percent Uptime	
Depth (in)	100
Velocity (ft/s)	100
Quantity (MGD)	100

Project Name: Maywood Psomas TFM 2020		City: Maywood		Agency: Maywood		FM Initials: SK	
Site Name: VernonB2		Install Date: 12/19/19		Monitor Type		Peak Doppler	
Address/Location: 5199 Cudahy Ave				Monitor Model		Triton+ (8000)	
				Data Acquisition		Manual Collect	
				Manhole ID			
Access: Drive	Type of System:	Sanitary ☒	Storm ☐	Combined ☐	Pipe Height:		21.00 "
					Pipe Width:		20.75 "



Investigation Information:				Manhole Information:			
Date/Time of Investigation:		4/29/19 @ 1000		Manhole Depth:		10'	
Site Hydraulics:		Good straight through flow		Manhole Material / Condition		Brick/OK	
Upstream Input: (L/S, P/S)		DNI		Pipe Material / Condition: VCP/Good			
Upstream Manhole:		DNI		Land Use:	Residential ☒	Commercial ☐	Industrial ☐
Downstream Manhole:		DNI		Oxygen: 20.9	H2S: 0	LEL: 0	CO: 0
Depth of Flow:	2.25 " +/- 0.13"			Safety Notes: 2 man crew required and one blower is to be operated at all times.			
Range (Air DOF):	+/-						
Peak Velocity:	2.61 fps						
Silt:	0.00 Inches						

Other Information:			
	Cross Section		Plan

Installation Information		Backup	Yes	No	?	Distance
Installation Type:	Standard	Trunk	☐	☒	☐	
Sensors Devices:	Ultrasonic / Pressure/ Velocity	Lift / Pump Station	☐	☒	☐	
Surcharge Height:	0	WWTP	☐	☒	☐	
Rain Gauge Zone:		Other	☐	☒	☐	

Additional Site Information / Comments:

Standard Traffic Control with No Safety Concerns

SCATTERGRAPH REPORT

VernonB2

Flow Monitor

VernonB2

Pipe Height
21.00 in

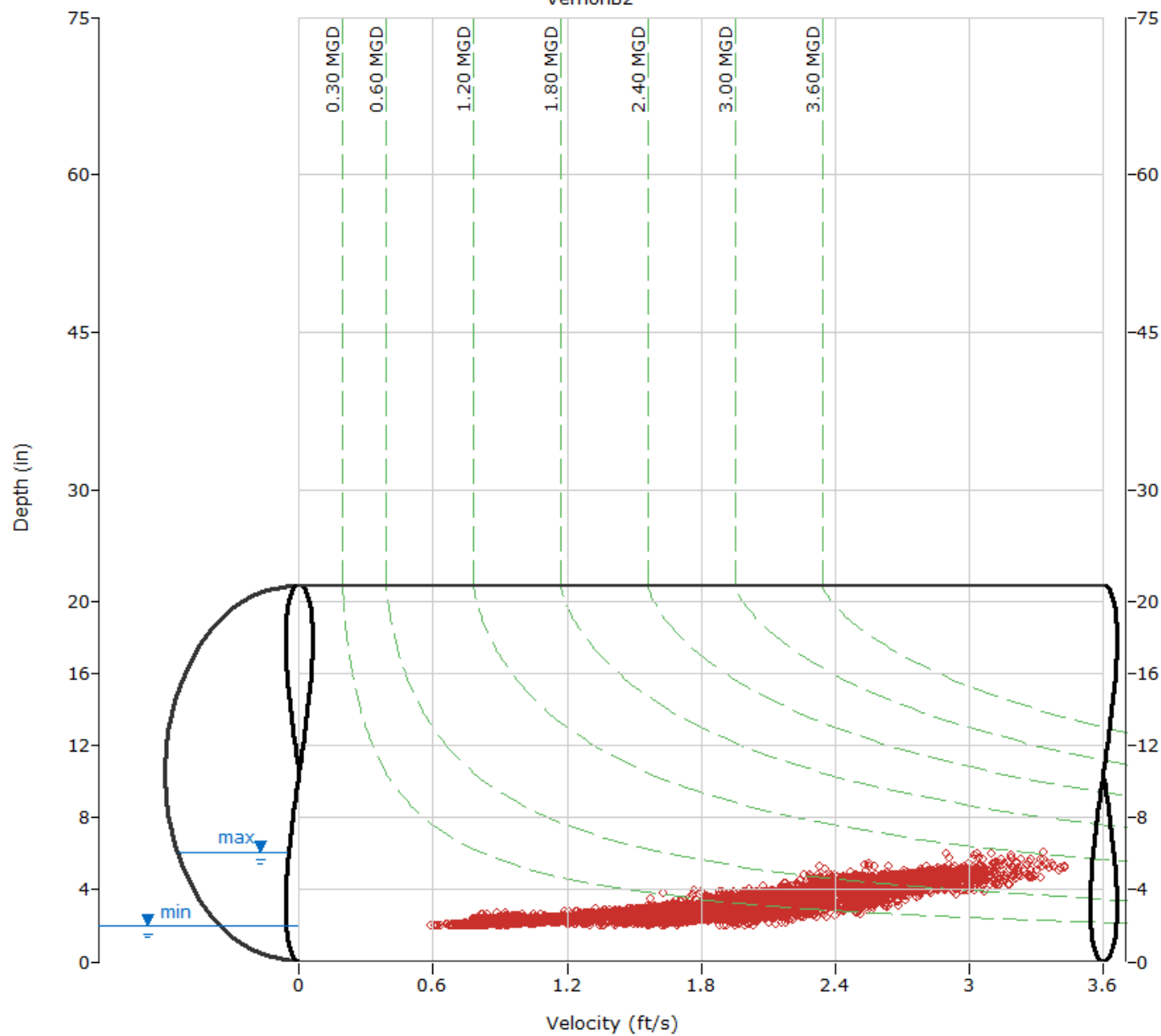
Report Period

12/20/2019
To
1/17/2020

Legend

- Depth - Velocity
- Iso-Q™
- Silt
- ▼ Min-Max Depth

ADS ENVIRONMENTAL
SERVICES

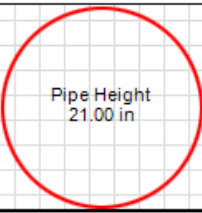


HYDROGRAPH REPORT

VernonB2

Flow Monitor

VernonB2



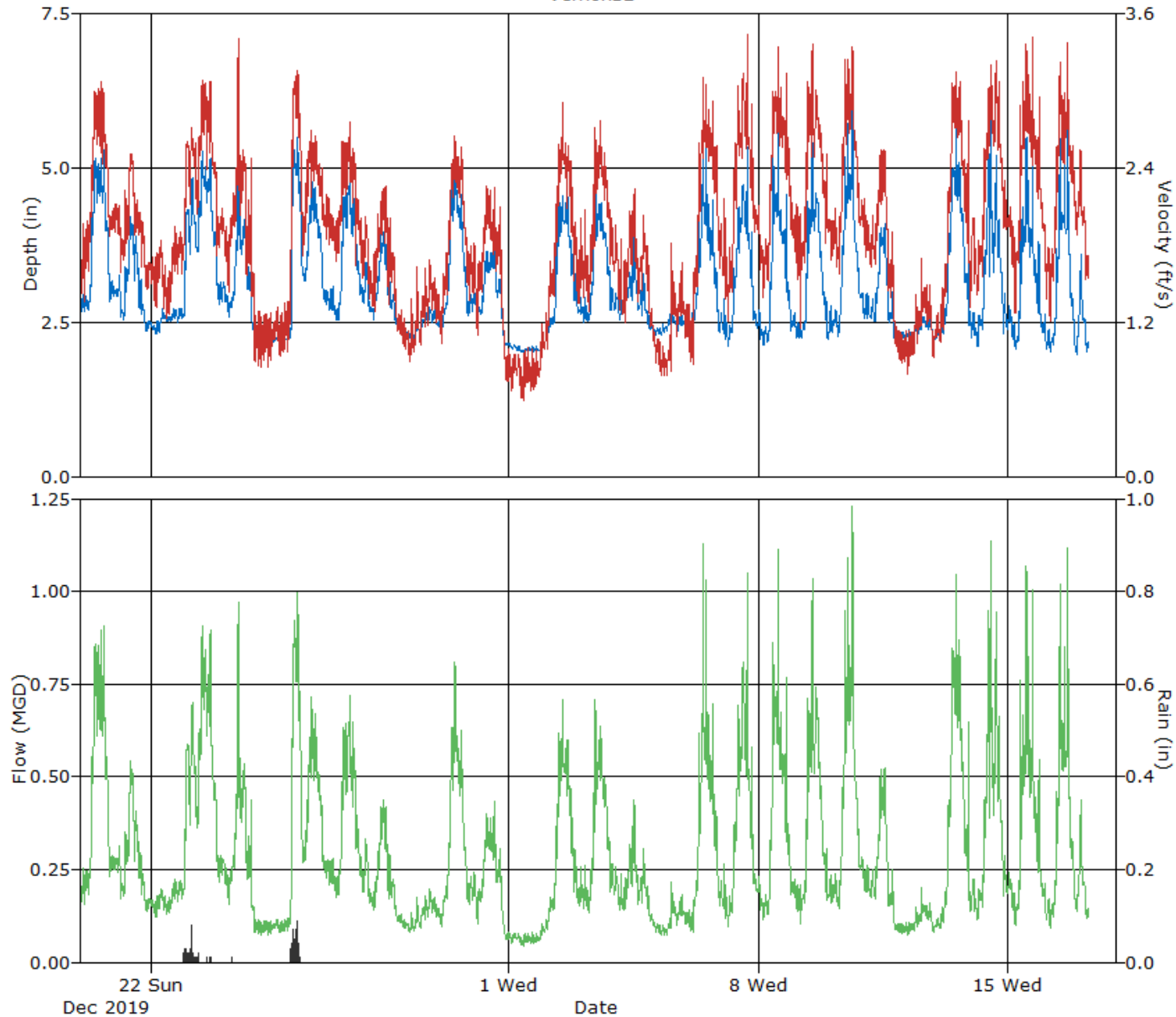
Pipe Height
21.00 in

Report Period

12/20/2019
To
1/17/2020

Legend

- Depth
- Velocity
- Quantity
- Rain



Daily Tabular Report For The Period 12/20/2019 00:00 - 01/17/2020 23:59

VernonB2, Pipe Height: 21.00 in, Silt: 0.00 in

Daily Tabular Report

Date	Depth (in)					Velocity (ft/s)					Quantity (MGD - Total MG)						Rain (in)
	Time	Min	Time	Max	Avg	Time	Min	Time	Max	Avg	Time	Min	Time	Max	Avg	Total	
12/20/2019	03:10	2.67	16:25	5.29	3.69	03:00	1.35	14:15	3.06	2.23	03:00	0.155	16:25	0.905	0.439	0.439	0.00
12/21/2019	21:05	2.35	10:05	4.21	3.05	21:05	1.45	10:40	2.51	1.94	21:05	0.137	10:00	0.544	0.277	0.277	
12/22/2019	03:45	2.31	23:50	4.26	2.60	10:50	1.23	23:55	2.58	1.65	03:25	0.121	23:50	0.573	0.184	0.184	0.44
12/23/2019	21:45	2.79	10:25	5.25	4.11	20:00	1.72	10:50	3.08	2.47	21:45	0.216	10:20	0.905	0.542	0.542	1.05
12/24/2019	23:50	2.25	10:35	5.06	3.14	22:00	0.89	10:35	3.40	1.92	22:00	0.079	10:35	0.971	0.295	0.295	0.01
12/25/2019	09:45	2.18	23:55	5.13	2.37	01:50	0.85	23:55	3.02	1.25	01:50	0.072	23:55	0.878	0.136	0.136	1.07
12/26/2019	23:55	2.74	02:20	5.49	3.91	05:55	1.71	02:05	3.15	2.37	23:55	0.219	02:20	0.998	0.489	0.489	1.50
12/27/2019	04:10	2.53	13:25	4.81	3.46	22:30	1.54	13:20	2.75	2.10	04:05	0.176	13:20	0.721	0.365	0.365	
12/28/2019	22:25	2.39	12:30	3.96	2.99	23:25	1.10	14:05	2.26	1.66	23:25	0.108	11:55	0.436	0.232	0.232	
12/29/2019	08:45	2.25	19:10	2.73	2.44	06:20	0.89	19:10	1.68	1.25	06:20	0.079	19:10	0.198	0.126	0.126	
12/30/2019	03:15	2.31	12:05	5.34	3.39	03:10	1.03	12:10	2.64	1.86	03:10	0.095	12:10	0.809	0.328	0.328	
12/31/2019	23:50	2.12	14:55	3.90	2.95	23:40	0.74	09:25	2.25	1.63	23:40	0.061	14:45	0.433	0.227	0.227	
01/01/2020	10:25	2.00	23:05	2.21	2.07	10:15	0.59	23:05	1.19	0.84	10:15	0.045	23:05	0.102	0.066	0.066	
01/02/2020	00:30	2.15	12:20	4.53	3.26	00:45	0.99	12:20	2.91	1.89	00:25	0.082	12:20	0.708	0.316	0.316	
01/03/2020	03:00	2.49	10:15	4.80	3.33	06:45	1.28	13:40	2.76	1.99	06:45	0.135	10:35	0.709	0.331	0.331	
01/04/2020	23:25	2.38	12:40	3.95	2.89	23:25	1.16	12:50	2.23	1.64	23:25	0.112	12:35	0.438	0.213	0.213	
01/05/2020	03:05	2.29	13:50	2.78	2.45	06:50	0.78	13:45	1.81	1.12	06:50	0.071	13:45	0.217	0.113	0.113	
01/06/2020	04:45	2.30	11:00	6.03	3.29	04:30	0.87	11:00	3.10	2.04	04:45	0.081	11:00	1.129	0.350	0.350	
01/07/2020	03:45	2.11	16:40	5.33	3.22	03:45	1.20	16:30	3.43	2.21	03:45	0.097	16:35	1.048	0.363	0.363	
01/08/2020	03:35	2.12	13:35	5.67	3.21	03:30	1.39	13:35	3.33	2.29	03:30	0.113	13:35	1.114	0.373	0.373	
01/09/2020	22:40	2.23	12:30	5.40	3.22	04:45	1.15	12:40	3.36	2.29	04:45	0.102	12:35	1.035	0.373	0.373	
01/10/2020	05:40	2.27	15:20	6.08	3.42	06:35	1.57	15:20	3.33	2.31	06:40	0.146	15:20	1.230	0.415	0.415	
01/11/2020	20:10	2.16	13:05	4.09	2.86	23:20	0.90	12:50	2.54	1.75	23:20	0.079	13:00	0.524	0.234	0.234	
01/12/2020	22:15	2.19	13:30	2.75	2.37	04:40	0.80	13:25	1.69	1.15	04:40	0.072	13:25	0.199	0.111	0.111	
01/13/2020	23:35	2.24	13:10	5.65	3.46	02:20	1.04	13:05	3.14	2.07	02:20	0.093	13:05	1.046	0.394	0.394	
01/14/2020	03:30	2.10	12:40	5.97	3.20	03:30	1.41	15:50	3.22	2.26	03:30	0.113	12:35	1.135	0.365	0.365	
01/15/2020	04:50	2.06	12:15	5.49	3.13	04:40	1.27	16:40	3.41	2.30	04:50	0.100	12:10	1.067	0.358	0.358	
01/16/2020	22:05	1.97	16:00	5.69	3.01	04:10	1.21	15:55	3.37	2.23	04:10	0.094	16:00	1.117	0.337	0.337	
01/17/2020	04:40	2.00	00:50	3.58	2.57	04:15	1.53	00:35	2.54	1.95	04:35	0.117	00:55	0.436	0.218	0.055	

Report Summary For The Period 12/20/2019 00:00 - 01/17/2020 23:59

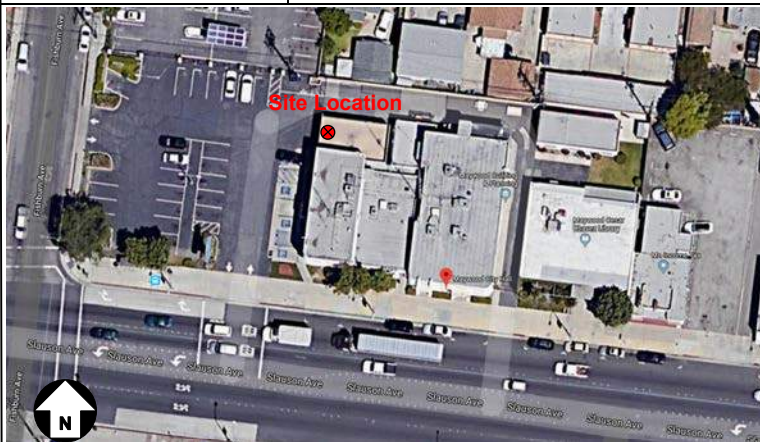
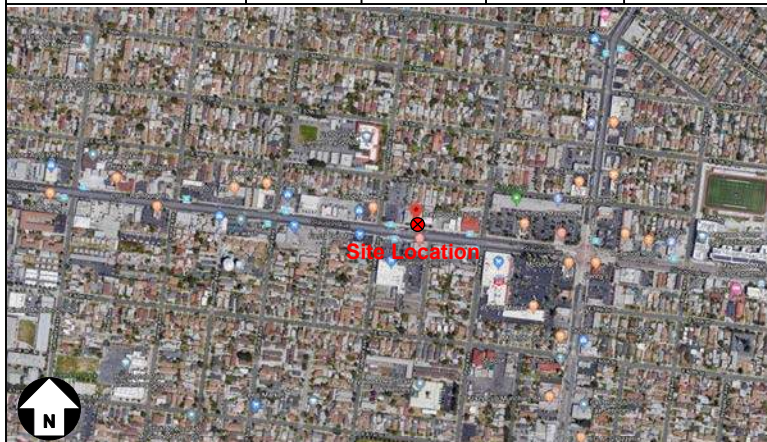
	Depth (in)	Velocity (ft/s)	Quantity (MGD - Total MG)	Rain (in)
Total			8.407	4.07
Avg	3.08	1.88	0.298	

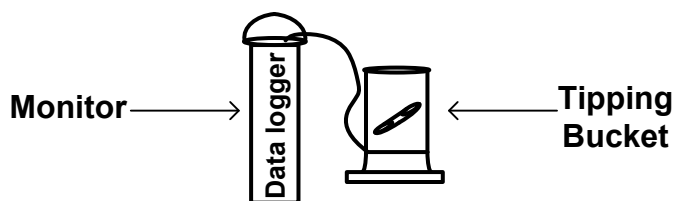
Rainfall data

MaywoodRG	
Rain Collector Dimensions	8"

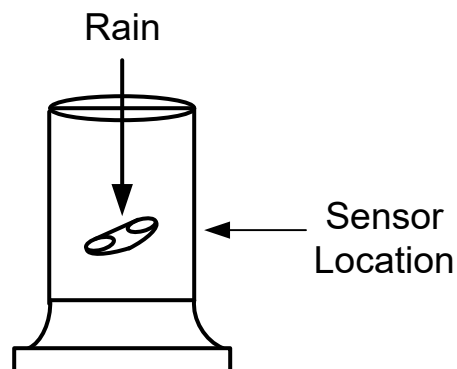
The rainfall measured at MaywoodRG from December 20, 2019 to January 17, 2020 is 4.07 inches.

Project Name: Maywood Psomas TFM 2020					City: Maywood, CA	FM Initials: SK
Site Name: MaywoodRG		Install Date: 12/20/19			Monitor Type	Rain Gauge Data Logger
Address/Location: 4319 Slauson Ave					Monitor Model	Rain Alert III
					Tipping Bucket Model	Hydrological Services TB06
Access: Drive	Type of System:	Sanitary ☒	Storm ☐	Combined ☐	Tipping Bucket Dia.	8"
					Data Acquisition	Wireless


Rain Gauge Area
Rain Gauge Photo

Other Information:

Installation Information

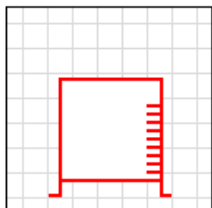
Installation Type:	Rain Gauge
Monitoring Period:	12/20/19-1/17/20
Increments of Rain Fall:	0.01"
Test Tips:	10 tips on 12/17/18


Additional Site Information / Comments:

HYDROGRAPH REPORT

MaywoodRG

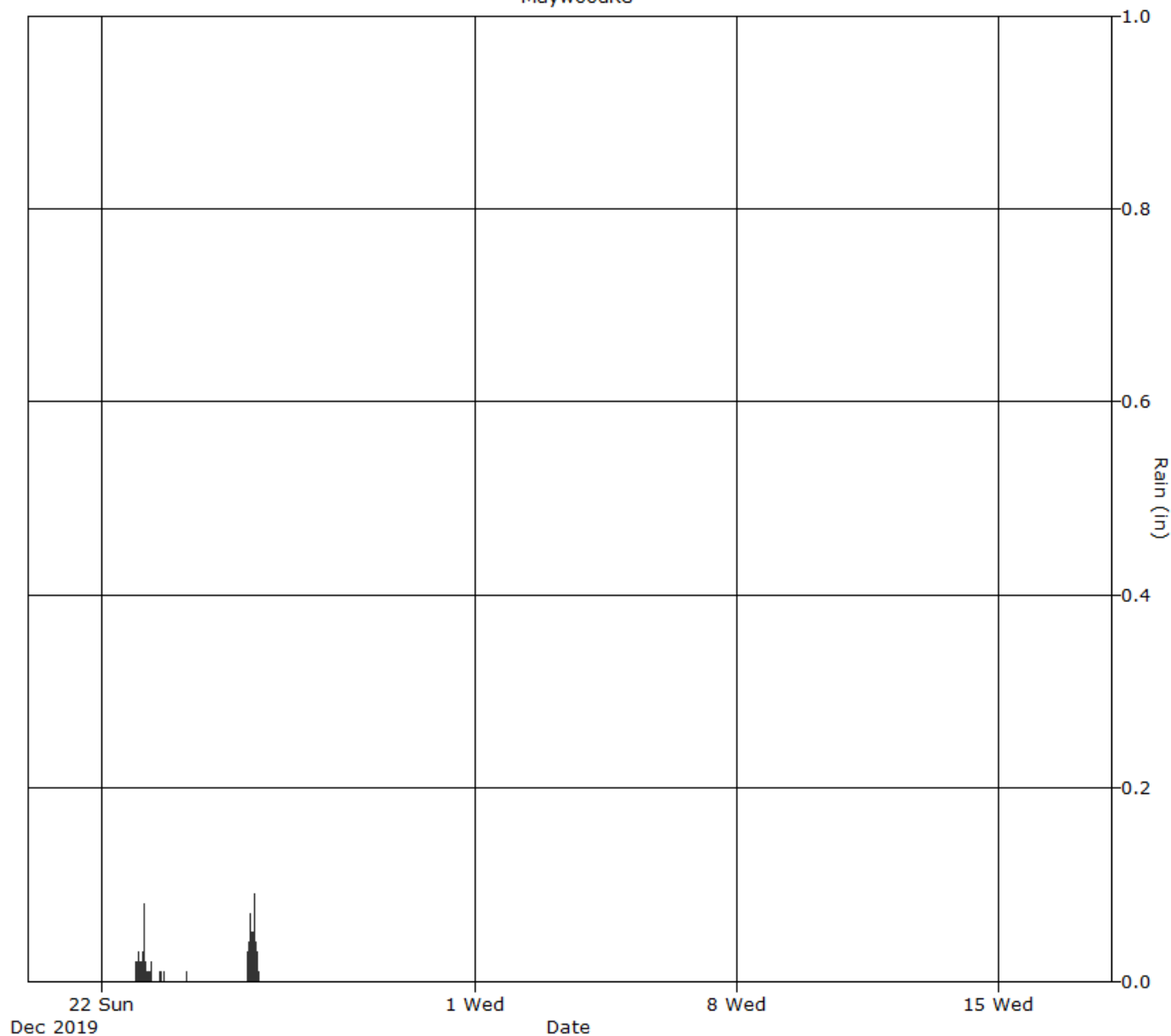
Rain Gauge
MaywoodRG



Report Period
12/20/2019
To
1/17/2020

Legend
— Rain

ADS ENVIRONMENTAL
SERVICES



Daily Tabular Report

Date	Rain (in)					
	Time	Min	Time	Max	Avg	Total
12/20/2019						0.00
12/21/2019						
12/22/2019						0.44
12/23/2019						1.05
12/24/2019						0.01
12/25/2019						1.07
12/26/2019						1.50
12/27/2019						
12/28/2019						
12/29/2019						
12/30/2019						
12/31/2019						
01/01/2020						
01/02/2020						
01/03/2020						
01/04/2020						
01/05/2020						
01/06/2020						
01/07/2020						
01/08/2020						
01/09/2020						
01/10/2020						
01/11/2020						
01/12/2020						
01/13/2020						
01/14/2020						
01/15/2020						
01/16/2020						
01/17/2020						

Report Summary For The Period 12/20/2019 - 01/17/2020

	Rain (in)
Total	4.07
Avg	

City of Maywood
Request for Proposals
to Provide Engineering Services
to Prepare PS&E (Plans, Specifications and
Estimates)
for
52nd Street Sewer Improvements

Date of Issuance: August 26, 2021

PROPOSALS MUST BE RECEIVED NO LATER THAN
3:00 p.m., September 23, 2021

DELIVER OR MAIL TO:
City of Maywood
City Clerk's Office
Attn: City Engineer
4319 E. Slauson Avenue
Maywood, CA 90270

TABLE OF CONTENTS

I.	PURPOSE	1
II.	BACKGROUND	1
III.	GENERAL REQUIREMENTS	1
IV.	SCOPE OF SERVICES	1
V.	SCHEDULE	2
VI.	LIST OF INTERESTED PROPOSERS	3
VII.	QUESTIONS	3
VIII.	SUBMITTAL PROCEDURES	3
IX.	SUBMITTAL FORMAT	3
X.	AGREEMENT FOR PROFESSIONAL SERVICES	5
XI.	GENERAL ADMINISTRATIVE INFORMATION	6
XII.	SUBMITTAL DUE DATE	7
XIII.	SELECTION PROCESS	7
XIV.	AUTHORITY TO WITHDRAW	8
XV.	AWARD OF CONTRACT	8
XVI.	ATTACHMENTS	8

I. PURPOSE

The purpose of this Request for Proposals (RFP) is to select the most-qualified Consultant to Provide a fast track Engineering Services to Prepare PS&E (Plan, Specifications and Estimates) for 52nd Street Sewer Improvements project. The City wishes to obtain engineering services under a Professional Services Agreement. The City will award no more than one contract on a not-to-exceed basis.

II. BACKGROUND

The City of Maywood is a General Law City, with a Council/Manager form of government. This project involves upsize approximately 1,415 lineal feet of existing 8-inch pipeline with a 10-inch pipeline in 52 Street between Fishburn Avenue and 52 Place and in 52 Place between 52 Street and Cudahy Avenue.

The City is seeking the services of professional consultants to prepare design plans and specifications for the project. The City reserves the right to award one or more of the above listed improvements.

III. GENERAL REQUIREMENTS

- A. Respondents shall have at least five (5) years of consecutive experience in the design of sewer improvements similar to the services identified in the Scope of Services.
- B. The proposed term of the contract under this RFP shall be for one year with the option to renew for two additional one-year periods at the discretion of the City.
- C. Respondent shall comply with the insurance requirements set forth in the form professional services agreement.
- D. The Proposer must have appropriate certificates/professional accreditations for the State of California to provide the services requested.
- E. The Proposer shall provide a description of local, state or regional experience.

IV. SCOPE OF SERVICES

The selected Respondent shall provide the following scope of services as follows:

- A. **Design Plans and Specifications**
 - 1. Meet with Staff to define and clarify work plan and project elements.
 - 2. Account for field visits of the project area to identify design issues. Record existing site conditions in photographs and/or video.
 - 3. Prepare fast track design plans and specifications meeting the City's expectation.
 - 4. Prepare and submit a cost estimate for the project.
 - 5. Respond to questions in the bidding Phase.

B. Environmental Analysis

1. The Project is likely exempt per CEQA. Prepare Notice of Exemption as necessary

C. Project Management and Preparation of Periodic Updated Schedule, Deliverables and Meetings

1. Meet as needed with the City to accomplish Project tasks as outlined. Meetings expected between the Consultant and City, shall be and not be limited to: Project Kick-off Meeting and progress meetings as requested.
2. Provide periodic schedule updates on deliverables and meetings as changes to original schedule occur or as needed based on the needs of the project.
3. The design services for each of the listed required improvements shall be limited to **no more than two months**.
4. The professional services shall include but not limited to the following, utilities research, survey, potholing, plans, specifications, and as-built plans.

All work shall be coordinated with the City Engineer and other City Staff determined to be pertinent to the completion of the design of the required Improvements.

V. SCHEDULE

Deadlines

Release of Requests for Proposals	August 26, 2021
Submittal of Questions	September 14, 2021 by 5:00 pm
Response to Questions	September 16, 2021 by 5:00 pm
Proposal Due Date	September 23, 2021 by 3:00 pm
Proposal Review/Evaluation	Week of September 27, 2021
Optional Interview (if required)	Week of October 4, 2021
Tentative City Council Award of Contract	October 27, 2021
Tentative Start date	November 8, 2021

* These dates are anticipated and may change.

VI. LIST OF INTERESTED PROPOSERS

The full content of the RFP is available through the City website at www.cityofmaywood.org. If addendums are necessary, they will be posted onto the previously mentioned websites as well. All respondents interested in proposing on this RFP are encouraged to sign-up on the "List of Interested Proposers" for the project. This list will be used to email any project updates, addendums, changes or responses to written inquiries and will be distributed to all interested contractors. To get on the list please email okan.demirci@transtech.org.

VII. QUESTIONS

All questions regarding this RFP shall be submitted in writing by email to: Okan Demirci at okan.demirci@transtech.org. The date and time when questions must be submitted are shown in "Section V-Schedule" of this RFP. Questions with their answers will be posted on the City website by the date and time set forth in this RFP.

VIII. SUBMITTAL PROCEDURES

Submittals shall comply with all conditions, requirements and specifications contained herein, with any departure rendering the proposal non-responsive and may serve as grounds for rejection of the proposal at the City's sole discretion. The submittal shall contain the name of this RFP and Respondents shall provide four (4) copies of the proposal (three bound and one unbound), single sided, and electronic copy (pdf) in a thumb drive.

All proposal submittals shall be mailed or delivered and received by the City no later than September 23, 2021 at 3:00 p.m. addressed as follows:

City of Maywood
City Clerk's Office
Attention: Jennifer Vasquez, City Manager
4319 Slauson Avenue
Maywood, CA 90270

For delivery purposes, the City Clerk's phone number for the City is (323) 562-5700.

IX. SUBMITTAL FORMAT

All Respondents must submit qualifications according to the specifications set forth below. Proposals should be prepared in such a way as to provide a straightforward, concise delineation of capabilities to satisfy the requirements of this RFP. Responses should emphasize the Respondent's demonstrated capability to perform work of this type. Proposals shall be valid for a minimum of 90 days following submission. Expensive bindings, colored displays, promotional materials, etc., are not necessary or desired. The proposal shall not exceed 25 pages. The City reserves the right to request additional information that, in the City's opinion, is necessary to ensure that the Proposer's competence, qualified employees, business organization and financial resources are adequate for the performance of the services under this RFP.

A. WORK PROPOSAL

1. Cover Letter

- a. Provide a cover letter including the Respondent's name, address and telephone number of the contact person(s) who is authorized to submit the proposal on behalf of the Respondent. The cover letter shall include a brief general statement of intent to perform the services and correspondent that all elements of the RFP have been reviewed and understood. The letter should include a brief description of the Respondent's Respondent. The letter should be signed by an individual who can bind the Respondent contractually.
- b. There shall be one person from the Respondent identified in the proposal who shall be the Respondent's designated representative and who is responsible for the services listed in "Section IV - Scope of Services" of this RFP ("Point of Contact").
- c. If applicable, Respondent shall acknowledge receipt of any addendum to the RFP.

2. Table of Contents

- a. Include a table of content identifying the contents of the proposal in a format consistent with the proposal requirements and format set forth herein.

3. Experience and Qualifications

- a. Describe the Respondent, its size and organization, the number and location of offices, and general operational structure, as well as its management and key personnel. Provide a description of the Respondent's Respondent, its size and organization, the number and location of offices and general operational structure. Include a discussion demonstrating that the Respondent has the resources (financial, equipment, labor and capacity) available to provide services under this RFP from the first day at the start of the work.
- b. At a minimum, Respondent should have at least five (5) years of consecutive experience.
- c. Provide at least five references that received similar services from Respondent at a minimum over the last five years. Include name of organization, contact name, telephone number and email address.
- d. Demonstrate the qualifications of all personnel to be assigned to the City, including key personnel, by providing resumes and/or relative experience summaries describing their education, credentials, licensing, training and related experience and their proposed roles for this contract.

- e. Provide an organization chart of the proposed team, including a contingency plan should a member of the proposed team be unable to fulfill their responsibilities.
 - f. Respondent shall hold the required license(s) to perform the work and provide proof of required license for itself and its personnel.
4. Approach to Scope of Services
- a. This section should set forth a comprehensive description of the approach to providing the Scope of Services and should clearly demonstrate an understanding of the City's requirements, the work to be done and the objectives to be accomplished.
 - b. Provide a description of the work plan for the services describing how each task under the Scope of Services will be accomplished. This may be used as an Exhibit for the Scope of Services to the agreement.
 - c. Provide any other information or tasks that Respondent believes necessary to complete the Scope of Services.

B. COST PROPOSAL

1. Detailed Cost Proposal
- a. Respondent shall submit a detailed cost proposal that shall include all tasks required to perform the Scope of Services. The cost proposal shall indicate how the City will be charged for services (i.e. unit, hourly or flat rate basis as appropriate) for the term of the contract, including any extensions. Costs should include all services and materials if any, needed to perform the Scope of Services.
 - b. As it relates to the services under this RFP, if Respondent is proposing to provide the services on an hourly basis, the cost proposal shall identify the hourly rate for the personnel needed to complete the Scope of Services.
 - c. In addition, Respondent shall also submit the rates/compensation for any "additional services" that Respondent can provide.

X. AGREEMENT FOR PROFESSIONAL SERVICES

The City of Maywood's Agreement for Professional Services (Attachment 1) is included for review and comment. The Respondent's submission of a proposal indicates Respondent's compliance of such terms, unless the proposal indicates that compliance is not possible. Proposed revisions should be addressed in the cover letter, however, the City maintains discretion to accept or reject the Respondent's request for revisions. The

City reserves the right to make any revisions to the proposed professional services agreement.

XI. GENERAL ADMINISTRATIVE INFORMATION

All respondents are advised to become familiar with all conditions, instructions and specifications of this RFP. By submitting a proposal, Respondent represents that it has thoroughly examined and become familiar with the work required under this RFP and that the Respondent has conducted such additional investigation as it deems necessary and convenient (i.e. visiting the locations), that Respondent is capable of providing the equipment, goods and services necessary to furnish landscape maintenance in a manner that meets the City's objectives in this RFP. Once the contract has been made, a failure to have read the conditions or conduct any investigations of the properties shall not be cause to alter the contract or for Respondent to request additional compensation.

Each Respondent understands and agrees that the City, its departments, its officers, employees or agents are not responsible for:

- Any costs incurred by a Respondent in the preparation, delivery or presentation of a proposal.
- Any costs incurred by a Respondent in meeting the criteria as a result of making or submitting a proposal or subsequently in entering into a formal agreement with the City; and
- Any errors, inaccuracies or misstatements related to the information or data supplied to any contractor by the City. The use of such information or data provided by the City, its officers, employees or agents is intended to be used at the sole discretion and risk of the Respondent in the preparation of a proposal pursuant to this Request for Proposals only.

The selected Respondent shall comply with any and all Federal and State laws applicable to the services. All proposals submitted to the City of Maywood in response to this RFP shall become the property of the City and will not be returned and such proposals, after the agreement is awarded, are subject to the California Public Records Act.

The City reserves the right to accept, reject, modify or cancel in whole or in part, this RFP. The City reserves the right to accept or reject any or all proposals, negotiate modifications to proposals that it deems acceptable, to request and consider additional information from any proposer, and to waive irregularities and technical defects in the proposal process, all in its sole discretion. The City has no obligation, express or implied, to make an award.

The City may reject proposals from Respondents who cannot satisfactorily provide the experience and qualifications required by this RFP and/or provides the scope of services required herein. The City reserves the right to seek new proposals when it determines that it is in the best interest to do so.

XII. SUBMITTAL DUE DATE

The submittal package must be received prior to the submittal date specified in "Section V - Schedule" of this RFP. Respondents mailing a proposal must allow sufficient delivery

time to ensure timely receipt of the proposal by the date and time specified. Submittals arriving after the deadline will not be considered.

XIII. SELECTION PROCESS

All proposals timely received shall be reviewed to verify that the proposal meets the minimum requirements and qualifications. Proposals that have not complied with requirements, do not meet minimum content and quality standards, or take unacceptable exceptions to the professional services agreement, may be eliminated from further consideration at the discretion of the City. Proposals will be reviewed and evaluated by an evaluation committee comprised of City of Maywood personnel.

The City will be the sole and exclusive judge of quality and compliance with proposal specifications in any of the matters pertaining to this RFP. The City's final selection will not be dictated on any single factor or criteria including price. The City reserves the right to award the contract(s) in any manner it deems to be in the best interest of the City and make the selection based on its sole discretion, notwithstanding the criteria set forth herein, including negotiating with one or more of the Respondents for the same services.

City will evaluate the proposals provided in response to this RFP based on the following criteria:

1. The City will evaluate Respondents based on meeting all of the City's requirements and who offers the most advantageous combination of cost and high quality service. In addition to cost, however, the City will consider the quality of services proposed, the financial qualification of, and the work experience of the proposer in determining the best value to the City.
2. Other criteria shall include, but not be limited to:
 - a. Quality and completeness of proposal
 - b. Qualifications and experience of proposer, including experience and qualifications of key personnel and staff
 - c. Similar experience and expertise in the type of work required, with the City or with other public agencies
 - d. Demonstrated understanding of the scope of services requested as well as capacity of respondent
 - e. References
 - f. Financial stability of proposer
 - g. Cost to the City
 - h. Oral interviews, if applicable.
 - i. Any other factors determined by the City to be relevant to the performance of these services.

XIV. AUTHORITY TO WITHDRAW

The City of Maywood reserves the right to withdraw this Request for Proposals without prior notice. The City of Maywood makes no representation that any agreement will be

awarded to any Respondent as a result of having responded to this request. All proposals submitted to the City of Maywood in response to this RFP shall become the property of the City and will not be returned.

XV. AWARD OF CONTRACT

Based on the outcome of the evaluation committee's evaluation of the proposals, a recommendation will be submitted to the City Council for consideration of award. An award of a contract occurs when the contract is approved by the Maywood City Council. Selection of a respondent with whom the City enters into contract negotiations with or a recommendation of an award by the evaluation committee or any other party, does not constitute an award of a contract. The contract shall be in accordance with the attached Agreement.

XVI. ATTACHMENTS

Attachment 1. Form Professional Services Agreement

ATTACHMENT 1

Form Professional Services Agreement

PROFESSIONAL SERVICES AGREEMENT

This Professional Services Agreement ("Agreement") is dated _____, 20__ ("Effective Date") and is between the City of Maywood, a California municipal corporation ("City") and _____ ("Consultant"). City and Consultant are sometimes referred to herein as the "Parties", and individually as a "Party".

RECITALS

A. City desires to utilize the services of Consultant as an independent contractor to perform _____.

B. Consultant represents that it is fully qualified to perform such services by virtue of its experience and the training, education and expertise of its principals and employees.

C. City desires to retain Consultant and Consultant desires to serve City to perform these services in accordance with the terms and conditions of this Agreement.

The Parties therefore agree as follows:

10. Consultant's Services.

Scope of Services. Consultant shall perform the services described in the Scope of Services (the "Services"), attached as **Exhibit A**. City may request, in writing, changes in the Scope of Services to be performed. Any changes mutually agreed upon by the Parties, and any increase or decrease in compensation, shall be incorporated by written amendments to this Agreement.

Party Representatives. For the purposes of this Agreement, the City Representative shall be the City Manager, or such other person designated in writing by the City Manager (the "City Representative"). For the purposes of this Agreement, the Consultant Representative shall be _____ (the "Consultant Representative"). The Consultant Representative shall directly manage Consultant's Services under this Agreement. Consultant shall not change the Consultant Representative without City's prior written consent.

Time for Performance. Consultant shall commence the Services on the Effective Date and shall perform all Services by the deadline established by the City Representative or, if no deadline is established, with reasonable diligence.

Standard of Performance. Consultant shall perform all Services under this Agreement in accordance with the standard of care generally exercised by like professionals under similar circumstances and in a manner reasonably satisfactory to City.

Ver. 3/2020

Personnel. Consultant has, or will secure at its own expense, all personnel required to perform the Services required under this Agreement. All of the Services required under this Agreement shall be performed by Consultant or under its supervision, and all personnel engaged in the work shall be qualified to perform such Services.

Compliance with Laws. Consultant shall comply with all applicable federal, state and local laws, ordinances, codes, regulations and requirements.

Permits and Licenses. Consultant shall obtain and maintain during the Agreement term all necessary licenses, permits and certificates required by law for the provision of Services under this Agreement, including a business license.

H. Prevailing Wages. This Agreement calls for services that, in whole or in part, constitute "public works" as defined in the California Labor Code. Therefore, as to those services that are "public works", Consultant shall comply in all respects with all applicable provisions of the California Labor Code, including those set forth in **Exhibit C** hereto.

11. **Term of Agreement.** The term of this Agreement shall be from the Effective Date through _____, unless sooner terminated as provided in Section 13 of this Agreement or extended.

12. Compensation.

Compensation. As full compensation for Scope of Services satisfactorily rendered, City agrees to compensate Consultant, and Consultant agrees to accept in full satisfaction for the services required by this Agreement, _____, as more particularly described in **Exhibit B** ("Compensation"). Said Compensation shall constitute reimbursement of Consultant's fee for the services as well as the actual cost of any staff time, other direct or indirect costs or fees, including the work of employees, consultants and subcontractors, equipment, materials, and supplies necessary to provide the service (including all labor, materials, delivery, tax, assembly, and installation, as applicable). In no event shall the Consultant be paid more than \$_____, which includes expenses and additional services (if any) during the term of this Agreement ("Maximum Compensation").

Expenses. The City will not reimburse Consultant for any expenses, unless expenses are agreed upon in advance in writing by both parties and/or set forth in **Exhibit B**.

Unauthorized Services and Expenses. City will not pay for any services not specified in the Scope of Services, unless the City Council or the City Representative, if applicable, and the Consultant Representative authorize such services in writing prior to Consultant's performance of those services or incurrence of additional expenses. Any additional services or expenses authorized by the City Council or the City Representative

shall be compensated at the rates set forth in **Exhibit B**, or, if not specified, at a rate mutually agreed to by the Parties. City shall make payment for additional services and expenses in accordance with Section 4 of this Agreement.

13. Method of Payment.

Invoices. Consultant shall submit to City an invoice, on a monthly basis, for the Services performed pursuant to this Agreement. Each invoice shall itemize the Services rendered during the billing period, hourly rates charged, if applicable, and the amount due. City shall review each invoice and notify Consultant in writing within ten Business days of receipt of any disputed invoice amounts.

Payment. City shall pay all undisputed invoice amounts within 30 calendar days after receipt up to the Maximum Compensation set forth in Section 3 of this Agreement or within such other reasonable time dependent on the City's warrant run procedures. City does not pay interest on past due amounts. City shall not withhold federal payroll, state payroll or other taxes, or other similar deductions, from payments made to Consultant. Notwithstanding the preceding sentence, if Consultant is a nonresident of California, City will withhold the amount required by the Franchise Tax Board pursuant to Revenue and Taxation Code Section 18662 and applicable regulations.

Audit of Records. Consultant shall make all records, invoices, time cards, cost control sheets and other records maintained by Consultant in connection with this Agreement available during Consultant's regular working hours to City for review and audit by City.

14. Independent Contractor.

A. Consultant is an independent contractor and not an employee of the City. All work or other Services provided pursuant to this Agreement shall be performed by Consultant or by Consultant's employees or other personnel under Consultant's supervision, and Consultant and all of Consultant's personnel shall possess the qualifications, permits, and licenses required by State and local law to perform such Services, including, without limitation, a City of Maywood business license. Consultant will determine the means, methods, and details by which Consultant's personnel will perform the Services. Consultant shall be solely responsible for the satisfactory work performance of all personnel engaged in performing the Services and compliance with the customary professional standards.

B. All of Consultant's employees and other personnel performing any of the Services under this Agreement on behalf of Consultant shall also not be employees of City and shall at all times be under Consultant's exclusive direction and control. Consultant and Consultant's personnel shall not supervise any of City's employees; and City's employees shall not supervise Consultant's personnel. Consultant's personnel

shall not wear or display any City uniform, badge, identification number, or other information identifying such individual as an employee of City; and Consultant's personnel shall not use any City e-mail address or City telephone number in the performance of any of the Services under this Agreement. Consultant shall acquire and maintain at its sole cost and expense such vehicles, equipment and supplies as Consultant's personnel require to perform any of the Services required by this Agreement. Consultant shall perform all Services off of City premises at locations of Consultant's choice, except as otherwise may from time to time be necessary in order for Consultant's personnel to receive projects from City, review plans on file at City, pick up or deliver any work product related to Consultant's performance of any Services under this Agreement, or as may be necessary to inspect or visit City locations and/or private property to perform such Services. City may make a computer available to Consultant from time to time for Consultant's personnel to obtain information about or to check on the status of projects pertaining to the Services under this Agreement.

C. Consultant shall be responsible for and pay all wages, salaries, benefits and other amounts due to Consultant's personnel in connection with their performance of any Services under this Agreement and as required by law. Consultant shall be responsible for all reports and obligations respecting such additional personnel, including, but not limited to: Social Security taxes, other retirement or pension benefits, income tax withholding, unemployment insurance, disability insurance, and workers' compensation insurance. Notwithstanding any other agency, State, or federal policy, rule, regulation, statute or ordinance to the contrary, Consultant and any of its officers, employees, agents, and subcontractors providing any of the Services under this Agreement shall not become entitled to, and hereby waive any claims to, any wages, salaries, compensation, benefit or any incident of employment by City, including but not limited to, eligibility to enroll in, or reinstate to membership in, the California Public Employees Retirement System ("PERS") as an employee of City, and entitlement to any contribution to be paid by City for employer contributions or employee contributions for PERS benefits.

D. Consultant shall indemnify and hold harmless City and its elected officials, officers, employees, servants, designated volunteers, and agents serving as independent contractors in the role of City officials, from any and all liability, damages, claims, costs and expenses of any nature to the extent arising from, caused by, or relating to Consultant's personnel practices. or to the extent arising from, caused by or relating to the violation of any of the provisions of this Section. In addition to all other remedies available under law, City shall have the right to offset against the amount of any fees due to Consultant under this Agreement any amount due to City from Consultant as a result of Consultant's failure to promptly pay to City any reimbursement or indemnification arising under this Section. This duty of indemnification is in addition to Consultant's duty to defend, indemnify and hold harmless as set forth in any other provision of this Agreement.

15. PERS Compliance and Indemnification

A. **General Requirements.** The Parties acknowledge that City is a local agency member of PERS, and as such has certain pension reporting and contribution obligations to PERS on behalf of qualifying employees. Consultant agrees that, in providing its employees and any other personnel to City to perform any work or other Services under this Agreement, Consultant shall assure compliance with the Public Employees' Retirement Law, commencing at Government Code § 20000, the regulations of PERS, and the Public Employees' Pension Reform Act of 2013, as amended. Without limitation to the foregoing, Consultant shall assure compliance with regard to personnel who have active or inactive membership in PERS and to those who are retired annuitants and in performing this Agreement shall not assign or utilize any of its personnel in a manner that will cause City to be in violation of the applicable retirement laws and regulations.

B. **Indemnification.** Consultant shall defend (with legal counsel approved by City, whose approval shall not be unreasonably withheld), indemnify and hold harmless City, and its elected officials, officers, employees, servants, designated volunteers, and agents serving as independent contractors in the role of City officials, from (i) any and all liability, damages, claims, costs and expenses of any nature to the extent arising from, caused by, or relating to Consultant's violation of any provisions of this Section 6; or (ii) in the event that Consultant or any employee, agent or subcontractor of Consultant providing Services under this Agreement claims or is determined by a court of competent jurisdiction and/or by PERS to be eligible for enrollment in PERS as an employee of the City. This duty of indemnification is in addition to Consultant's duty to defend, indemnify and hold harmless as set forth in any other provision of this Agreement.

16. Information and Documents.

Consultant covenants that all data, reports, documents, discussion, or other information (collectively "Data") developed or received by Consultant or provided for performance of this Agreement are deemed confidential and shall not be disclosed or released by Consultant without prior written authorization by City. City shall grant such authorization if applicable law requires disclosure. Consultant, its officers, employees, agents, or subconsultants shall not without written authorization from the City Manager or unless requested in writing by the City Attorney, voluntarily provide declarations, letters of support, testimony at depositions, response to interrogatories or other information concerning the work performed under this Agreement or relating to any project or property located within the City. Response to a subpoena or court order shall not be considered "voluntary," provided Consultant gives City notice of such court order or subpoena.

Consultant shall promptly notify City should Consultant, its officers, employees, agents or subconsultants be served with any summons, complaint, subpoena, notice of deposition, request for documents, interrogatories, request for admissions or other discovery request, court order or subpoena from any party regarding this Agreement and the work performed thereunder or with respect to any project or property located within the City. City may, but has no obligation to, represent Consultant or be present at any deposition, hearing or similar proceeding. Consultant agrees to cooperate fully with City

and to provide City with the opportunity to review any response to discovery requests provided by Consultant. However, City's right to review any such response does not imply or mean the right by City to control, direct or rewrite the response.

All Data required to be furnished to City in connection with this Agreement shall become City's property, and City may use all or any portion of the Data submitted by Consultant as City deems appropriate. Upon completion of, or in the event of termination or suspension of this Agreement, all original documents, designs, drawings, maps, models, computer files containing data generated for the Services, surveys, notes, and other documents prepared in the course of providing the Services shall become City's sole property and may be used, reused or otherwise disposed of by City without Consultant's permission. Consultant may take and retain copies of the written products as desired, but the written products shall not be the subject of a copyright application by Consultant.

Consultant's covenants under this Section shall survive the expiration or termination of this Agreement.

17. Conflicts of Interest. Consultant and its officers, employees, associates and subconsultants, if any, shall comply with all conflict of interest statutes of the State of California applicable to Consultant's Services under this Agreement, including the Political Reform Act (Gov. Code § 81000, *et seq.*) and Government Code Section 1090. During the term of this Agreement, Consultant may perform similar Services for other clients, but Consultant and its officers, employees, associates and subconsultants shall not, without the City Representative's prior written approval, perform work for another person or entity for whom Consultant is not currently performing work that would require Consultant or one of its officers, employees, associates or subconsultants to abstain from a decision under this Agreement pursuant to a conflict of interest statute. Consultant shall incorporate a clause substantially similar to this Section into any subcontract that Consultant executes in connection with the performance of this Agreement.

18. Indemnification, Hold Harmless, and Duty to Defend.

Indemnity for Design Professional Services. To the fullest extent permitted by law, Consultant shall, at its sole cost and expense, protect, indemnify, and hold harmless City and its elected officials, officers, attorneys, agents, employees, designated volunteers, successors, assigns and those City agents serving as independent contractors in the role of City officials (collectively "Indemnitees"), from and against any and all damages, costs, expenses, liabilities, claims, demands, causes of action, proceedings, judgments, penalties, liens, and losses of any nature whatsoever, including fees of accountants, attorneys, or other professionals and all costs associated therewith, and reimbursement of attorney's fees and costs of defense (collectively "Liabilities"), whether actual, alleged or threatened, which arise out of, are claimed to arise out of, pertain to, or relate to, in whole or in part, the negligence, recklessness or willful misconduct of Consultant, its officers, agents, servants, employees, subcontractors, material men, contractors or their

officers, agents, servants or employees (or any entity or individual that Consultant shall bear the legal liability thereof) in the performance of design professional services under this Agreement by a “design professional,” as the term is defined under California Civil Code Section 2782.8(c).

Other Indemnities.

i. Other than in the performance of design professional services, and to the fullest extent permitted by law, Consultant shall, at its sole cost and expense, defend, hold harmless and indemnify the Indemnitees from and against any and all damages, costs, expenses, liabilities, claims, demands, causes of action, proceedings, judgments, penalties, liens, and losses of any nature whatsoever, including fees of accountants, attorneys, or other professionals and all costs associated therewith and the payment of all consequential damages (collectively “Claims”), in law or equity, whether actual, alleged or threatened, which arise out of, are claimed to arise out of, pertain to, or relate to the acts or omissions of Consultant, its officers, agents, servants, employees, subcontractors, materialmen, contractors or their officers, agents, servants or employees (or any entity or individual that Consultant shall bear the legal liability thereof) in the performance of this Agreement, including the Indemnitees’ active or passive negligence, except for Claims arising from the sole negligence or willful misconduct of the Indemnitees, as determined by court decision or by the agreement of the Parties. Consultant shall defend the Indemnitees in any action or actions filed in connection with any Claim with counsel of the Indemnitees’ choice, and shall pay all costs and expenses, including all attorneys’ fees and experts’ costs actually incurred in connection with such defense. Consultant shall reimburse the Indemnitees for any and all legal expenses and costs incurred by the Indemnitees in connection therewith.

ii. Consultant shall pay all required taxes on amounts paid to Consultant under this Agreement, and indemnify and hold City harmless from any and all taxes, assessments, penalties, and interest asserted against City by reason of the independent contractor relationship created by this Agreement. Consultant shall fully comply with the workers’ compensation law regarding Consultant and Consultant’s employees. Consultant shall indemnify and hold City harmless from any failure of Consultant to comply with applicable workers’ compensation laws. City may offset against the amount of any fees due to Consultant under this Agreement any amount due to City from Consultant as a result of Consultant’s failure to promptly pay to City any reimbursement or indemnification arising under this subparagraph B.2).

iii. Consultant shall obtain executed indemnity agreements with provisions identical to those in this Section from each and every subcontractor or any other person or entity involved by, for, with or on behalf of Consultant in the performance of this Agreement. If Consultant fails to obtain such indemnities, Consultant shall be fully responsible and indemnify, hold harmless and defend the Indemnitees from and against any and all Claims in law or equity, whether actual, alleged or threatened, which arise out of, are claimed to arise out of, pertain to, or relate to the acts or omissions of Consultant’s

subcontractor, its officers, agents, servants, employees, subcontractors, materialmen, consultants or their officers, agents, servants or employees (or any entity or individual that Consultant's subcontractor shall bear the legal liability thereof) in the performance of this Agreement, including the Indemnitees' active or passive negligence, except for Claims arising from the sole negligence or willful misconduct of the Indemnitees, as determined by court decision or by the agreement of the Parties.

Workers' Compensation Acts not Limiting. Consultant's obligations under this Section, or any other provision of this Agreement, shall not be limited by the provisions of any workers' compensation act or similar act. Consultant expressly waives its statutory immunity under such statutes or laws as to City, its officers, agents, employees and volunteers.

Insurance Requirements not Limiting. City does not, and shall not, waive any rights that it may possess against Consultant because of the acceptance by City, or the deposit with City, of any insurance policy or certificate required pursuant to this Agreement. The hold harmless and indemnification provisions in this Section shall apply regardless of whether or not any insurance policies are determined to be applicable to the Liabilities, Claims, tax, assessment, penalty or interest asserted against City.

a. Survival of Terms. The indemnification in this Section shall survive the expiration or termination of this Agreement.

19. Insurance.

Minimum Scope and Limits of Insurance. Consultant shall procure and at all times during the term of this Agreement carry, maintain, and keep in full force and effect, insurance as follows:

Commercial General Liability Insurance with a minimum limit of \$1,000,000.00 per occurrence for bodily injury, personal injury and property damage and a general aggregate limit of \$1,000,000.00 per project or location. If Consultant is a limited liability company, the commercial general liability coverage shall be amended so that Consultant and its managers, affiliates, employees, agents and other persons necessary or incidental to its operation are insureds.

Automobile Liability Insurance for any owned, non-owned or hired vehicle used in connection with the performance of this Agreement with a combined single limit of \$1,000,000.00 per accident for bodily injury and property damage. If Consultant does not use any owned, non-owned or hired vehicles in the performance of Services under this Agreement, Consultant shall provide insurance in the amount required by California law.

Workers' Compensation Insurance as required by the State of California and Employer's Liability Insurance with a minimum limit of \$1,000,000.00 per accident for

bodily injury or disease. If Consultant has no employees while performing Services under this Agreement, workers' compensation policy is not required, but Consultant shall execute a declaration that it has no employees.

4) ☐ If this box is checked, Professional Liability/Errors and Omissions Insurance with minimum limits of \$1,000,000.00 per claim and in aggregate.

Acceptability of Insurers. The insurance policies required under this Section shall be issued by an insurer admitted to write insurance in the State of California with a rating of A:VII or better in the latest edition of the A.M. Best Insurance Rating Guide or such other rating as approved by the City Manager. Self insurance shall not be considered to comply with the insurance requirements under this Section.

Additional Insured. The general liability policy shall contain an endorsement naming City and its elected and appointed officials, officers, employees, agents and volunteers as additional insureds. This provision shall also apply to any excess/umbrella liability policies.

Primary and Non-Contributing. The insurance policies required under this Section shall apply on a primary non-contributing basis in relation to any other insurance or self-insurance available to City. Any insurance or self-insurance maintained by City, its elected and appointed officials, officers, employees, agents or volunteers, shall be in excess of Consultant's insurance and shall not contribute with it.

Consultant's Waiver of Subrogation. The insurance policies required under this Section shall not prohibit Consultant and Consultant's employees, agents or subconsultants from waiving the right of subrogation prior to a loss. Consultant hereby waives all rights of subrogation against City.

Deductibles and Self-Insured Retentions. Any deductibles or self-insured retentions must be declared to and approved by City. At City's option, Consultant shall either reduce or eliminate the deductibles or self-insured retentions with respect to City, or Consultant shall procure a bond guaranteeing payment of losses and expenses.

Cancellations or Modifications to Coverage. Consultant shall not cancel, reduce or otherwise modify the insurance policies required by this Section during the term of this Agreement. The commercial general and automobile liability policies required under this Agreement shall be endorsed to state that should the issuing insurer cancel the policy before the expiration date, the issuing insurer will endeavor to mail 30 days' prior written notice to City. If any insurance policy required under this Section is canceled or reduced in coverage or limits, Consultant shall, within two Business Days of notice from the insurer, phone, fax or notify City via certified mail, return receipt requested, of the cancellation of or changes to the policy.

City Remedy for Noncompliance. If Consultant does not maintain the policies of insurance required under this Section in full force and effect during the term of this Agreement, or in the event any of Consultant's policies do not comply with the requirements under this Section, City may either immediately terminate this Agreement or, if insurance is available at a reasonable cost, City may, but has no duty to, take out the necessary insurance and pay, at Consultant's expense, the premium thereon. Consultant shall promptly reimburse City for any premium paid by City or City may withhold amounts sufficient to pay the premiums from payments due to Consultant.

Evidence of Insurance. Prior to the performance of Services under this Agreement, Consultant shall furnish City's Risk Manager or such other official designed by the City Manager with a certificate or certificates of insurance and all original endorsements evidencing and effecting the coverages required under this Section. The endorsements are subject to City's approval. Consultant may provide complete, certified copies of all required insurance policies to City. Consultant shall maintain current endorsements on file with City's Risk Manager. Consultant shall provide proof to City's Risk Manager that insurance policies expiring during the term of this Agreement have been renewed or replaced with other policies providing at least the same coverage. Consultant shall furnish such proof at least two weeks prior to the expiration of the coverages.

Indemnity Requirements not Limiting. Procurement of insurance by Consultant shall not be construed as a limitation of Consultant's liability or as full performance of Consultant's duty to indemnify City under Section 9 of this Agreement.

SubConsultant Insurance Requirements. Consultant shall require each of its subconsultants that perform Services under this Agreement to maintain insurance coverage that meets all of the requirements of this Section.

20. Mutual Cooperation.

City's Cooperation. City shall provide Consultant with all pertinent Data, documents and other requested information as is reasonably available for Consultant's proper performance of the Services required under this Agreement.

Consultant's Cooperation. In the event any claim or action is brought against City relating to Consultant's performance of Services rendered under this Agreement, Consultant shall render any reasonable assistance that City requires.

21. Records and Inspections. Consultant shall maintain complete and accurate records with respect to time, costs, expenses, receipts, correspondence, and other such information required by City that relate to the performance of the Services. All such records shall be maintained in accordance with generally accepted accounting principles and shall be clearly identified and readily accessible. Consultant shall provide free access to City, its designees and representatives at reasonable times, and shall allow City to

examine and audit the books and records, to make transcripts therefrom as necessary, and to inspect all work, data, documents, proceedings and activities related to this Agreement. Such records, together with supporting documents, shall be maintained for a period of three years after receipt of final payment.

22. Termination of Agreement.

Right to Terminate. City may terminate this Agreement at any time, at will, for any reason or no reason, after giving written notice to Consultant at least ten calendar days before the termination is to be effective. Consultant may terminate this Agreement at any time, at will, for any reason or no reason, after giving written notice to City at least 60 calendar days before the termination is to be effective.

Obligations upon Termination. Consultant shall cease all work under this Agreement on or before the effective date of termination specified in the notice of termination. In the event of City's termination of this Agreement due to no fault or failure of performance by Consultant, City shall pay Consultant based on the percentage of work satisfactorily performed up to the effective date of termination. In no event shall Consultant be entitled to receive more than the amount that would be paid to Consultant for the full performance of the Services required by this Agreement. Consultant shall have no other claim against City by reason of such termination, including any claim for compensation.

23. Force Majeure. Consultant shall not be liable for any failure to perform its obligations under this Agreement if Consultant presents acceptable evidence, in City's sole judgment, that such failure was due to acts of God, embargoes, inability to obtain labor or materials or reasonable substitutes for labor or materials, governmental restrictions, governmental regulations, governmental controls, judicial orders, enemy or hostile governmental action, civil commotion, fire or other casualty, or other causes beyond Consultant's reasonable control and not due to any act by Consultant.

24. Default.

Consultant's failure to comply with the provisions of this Agreement shall constitute a default. In the event that Consultant is in default for cause under the terms of this Agreement, City shall have no obligation or duty to continue compensating Consultant for any work performed after the date of default.

In addition to the right to terminate pursuant to Section 13, if the City Manager determines that Consultant is in default in the performance of any of the terms or conditions of this Agreement, City shall serve Consultant with written notice of the default. Consultant shall have ten calendar days after service upon it of the notice in which to cure the default by rendering a satisfactory performance. In the event that Consultant fails to cure its default within such period of time, City may, notwithstanding any other provision

of this Agreement, terminate this Agreement without further notice and without prejudice to any other remedy to which it may be entitled at law, in equity or under this Agreement.

25. Notices. Any notice, consent, request, demand, bill, invoice, report or other communication required or permitted under this Agreement shall be in writing and conclusively deemed effective: (a) on personal delivery, (b) on confirmed delivery by courier service during Consultant's and City's regular business hours, or (c) three Business Days after deposit in the United States mail, by first class mail, postage prepaid, and addressed to the Party to be notified as set forth below:

If to City:
Attn: City Manager
City of Maywood
4319 East Slauson Avenue
Maywood, California 90270

If to Consultant:

26. Non-Discrimination and Equal Employment Opportunity. In the performance of this Agreement, Consultant shall not discriminate against any employee, subconsultant or applicant for employment because of race, color, religious creed, sex, gender, gender identity, gender expression, marital status, national origin, ancestry, age, physical disability, mental disability, medical condition, genetic information, sexual orientation or other basis prohibited by law. Consultant will take affirmative action to ensure that subconsultants and applicants are employed, and that employees are treated during employment, without regard to their race, color, religious creed, sex, gender, gender identity, gender expression, marital status, national origin, ancestry, age, physical disability, mental disability, medical condition, genetic information or sexual orientation.

27. Prohibition of Assignment and Delegation. Consultant shall not assign any of its rights or delegate any of its duties under this Agreement, either in whole or in part, without City's prior written consent. City's consent to an assignment of rights under this Agreement shall not release Consultant from any of its obligations or alter any of its primary obligations to be performed under this Agreement. Any attempted assignment or delegation in violation of this Section shall be void and of no effect and shall entitle City to terminate this Agreement. As used in this Section, "assignment" and "delegation" means any sale, gift, pledge, hypothecation, encumbrance or other transfer of all or any portion of the rights, obligations, or liabilities in or arising from this Agreement to any person or entity, whether by operation of law or otherwise, and regardless of the legal form of the transaction in which the attempted transfer occurs.

28. No Third Party Beneficiaries Intended. This Agreement is made solely for the benefit of the Parties to this Agreement and their respective successors and assigns, and no other person or entity may have or acquire a right by virtue of this Agreement.

29. Waiver. No delay or omission to exercise any right, power or remedy accruing to City under this Agreement shall impair any right, power or remedy of City, nor shall it be

construed as a waiver of, or consent to, any breach or default. No waiver of any breach, any failure of a condition, or any right or remedy under this Agreement shall be (1) effective unless it is in writing and signed by the Party making the waiver, (2) deemed to be a waiver of, or consent to, any other breach, failure of a condition, or right or remedy, or (3) deemed to constitute a continuing waiver unless the writing expressly so states.

30. Final Payment Acceptance Constitutes Release. The acceptance by Consultant of the final payment made under this Agreement shall operate as and be a release of City from all claims and liabilities for compensation to Consultant for anything done, furnished or relating to Consultant's work or services. Acceptance of payment shall be any negotiation of City's check or the failure to make a written extra compensation claim within ten calendar days of the receipt of that check. However, approval or payment by City shall not constitute, nor be deemed, a release of the responsibility and liability of Consultant, its employees, subconsultants and agents for the accuracy and competency of the information provided and/or work performed; nor shall such approval or payment be deemed to be an assumption of such responsibility or liability by City for any defect or error in the work prepared by Consultant, its employees, subconsultants and agents.

31. Corrections. In addition to the above indemnification obligations, Consultant shall correct, at its expense, all errors in the work which may be disclosed during City's review of Consultant's report or plans. Should Consultant fail to make such correction in a reasonably timely manner, such correction may be made by City, and the cost thereof shall be charged to Consultant. In addition to all other available remedies, City may deduct the cost of such correction from any retention amount held by City or may withhold payment otherwise owed Consultant under this Agreement up to the amount of the cost of correction.

32. Non-Appropriation of Funds. Payments to be made to Consultant by City for services performed within the current fiscal year are within the current fiscal budget and within an available, unexhausted fund. In the event that City does not appropriate sufficient funds for payment of Consultant's services beyond the current fiscal year, this Agreement shall cover payment for Consultant's services only to the conclusion of the last fiscal year in which City appropriates sufficient funds and shall automatically terminate at the conclusion of such fiscal year.

33. Exhibits. Exhibits A and B constitute a part of this Agreement and are incorporated into this Agreement by this reference. If any inconsistency exists or arises between a provision of this Agreement and a provision of any exhibit, or between a provision of this Agreement and a provision of Consultant's proposal, the provisions of this Agreement shall control.

34. Entire Agreement and Modification of Agreement. This Agreement and all exhibits referred to in this Agreement constitute the final, complete and exclusive statement of the terms of the agreement between the Parties pertaining to the subject matter of this Agreement and supersede all other prior or contemporaneous oral or written

understandings and agreements of the Parties. No Party has been induced to enter into this Agreement by, nor is any Party relying on, any representation or warranty except those expressly set forth in this Agreement. This Agreement may not be amended, nor any provision or breach hereof waived, except in a writing signed by both Parties.

35. Headings. The headings in this Agreement are included solely for convenience of reference and shall not affect the interpretation of any provision of this Agreement or any of the rights or obligations of the Parties to this Agreement.

36. Word Usage. Unless the context clearly requires otherwise, (a) the words “shall,” “will” and “agrees” are mandatory and “may” is permissive; (b) “or” is not exclusive; and (c) “includes” or “including” are not limiting.

37. Time of the Essence. Time is of the essence in respect to all provisions of this Agreement that specify a time for performance; provided, however, that the foregoing shall not be construed to limit or deprive a Party of the benefits of any grace or use period allowed in this Agreement.

38. Business Days. “Business days” means days Maywood City Hall is open for business.

39. Governing Law and Choice of Forum. This Agreement, and any dispute arising from the relationship between the Parties to this Agreement, shall be governed by and construed in accordance with the laws of the State of California, except that any rule of construction to the effect that ambiguities are to be resolved against the drafting party shall not be applied in interpreting this Agreement. Any dispute that arises under or relates to this Agreement (whether contract, tort or both) shall be resolved in a superior court with geographic jurisdiction over the City of Maywood.

40. Attorneys’ Fees. In any litigation or other proceeding by which a Party seeks to enforce its rights under this Agreement (whether in contract, tort or both) or seeks a declaration of any rights or obligations under this Agreement, the prevailing Party shall be entitled to recover all attorneys’ fees, experts’ fees, and other costs actually incurred in connection with such litigation or other proceeding, in addition to all other relief to which that Party may be entitled.

41. Severability. If a court of competent jurisdiction holds any provision of this Agreement to be illegal, invalid or unenforceable for any reason, the validity of and enforceability of the remaining provisions of this Agreement shall not be affected and continue in full force and effect.

42. Counterparts. This Agreement may be executed in multiple counterparts, all of which shall be deemed an original, and all of which will constitute one and the same instrument.

43. Corporate Authority. Each person executing this Agreement on behalf of his or her Party warrants that he or she is duly authorized to execute this Agreement on behalf of that Party and that by such execution, that Party is formally bound to the provisions of this Agreement.

[SIGNATURE PAGE FOLLOWS]

The Parties, through their duly authorized representatives are signing this Agreement on the date stated in the introductory clause.

City:

City of Maywood,
a California municipal corporation

Consultant:

NAME OF CONSULTANT

By: _____
Ricardo Lara
Mayor of the City of Maywood

By: _____
Name: _____
Title: _____

ATTEST:

By: _____
Flor Aguiluz, City Clerk

APPROVED AS TO FORM:

By: _____
Roxanne Diaz, City Attorney

EXHIBIT A

SCOPE OF SERVICES

A-1

EXHIBIT B

COMPENSATION

B-1

EXHIBIT C

LABOR CODE REQUIREMENTS

EXHIBIT C
TERMS FOR COMPLIANCE WITH CALIFORNIA LABOR LAW REQUIREMENTS

1. This Agreement calls for services that, in whole or in part, constitute “public works” as defined in Division 2, Part 7, Chapter 1 (commencing with Section 1720) of the California Labor Code (“Chapter 1”). Further, Contractor acknowledges that this Agreement is subject to (a) Chapter 1 and (b) the rules and regulations established by the Department of Industrial Relations (“DIR”) implementing such statutes. Therefore, as to those services that are “public works”, Contractor shall comply with and be bound by all the terms, rules and regulations described in 1(a) and 1(b) as though set forth in full herein.

2. California law requires the inclusion of specific Labor Code provisions in certain contracts. The inclusion of such specific provisions below, whether or not required by California law, does not alter the meaning or scope of Section 1 above.

3. Contractor shall be registered with the Department of Industrial Relations in accordance with California Labor Code Section 1725.5, and has provided proof of registration to City prior to the Effective Date of this Agreement. Contractor shall not perform work with any subcontractor that is not registered with DIR pursuant to Section 1725.5. Contractor and subcontractors shall maintain their registration with the DIR in effect throughout the duration of this Agreement. If the Contractor or any subcontractor ceases to be registered with DIR at any time during the duration of the project, Contractor shall immediately notify City.

4. Pursuant to Labor Code Section 1771.4, Contractor’s Services are subject to compliance monitoring and enforcement by DIR. Contractor shall post job site notices, as prescribed by DIR regulations.

5. Pursuant to Labor Code Section 1773.2, copies of the prevailing rate of per diem wages for each craft, classification, or type of worker needed to perform the Agreement are on file at City Hall and will be made available to any interested party on request. Contractor acknowledges receipt of a copy of the DIR determination of such prevailing rate of per diem wages, and Contractor shall post such rates at each job site covered by this Agreement.

6. Contractor shall comply with and be bound by the provisions of Labor Code Sections 1774 and 1775 concerning the payment of prevailing rates of wages to workers and the penalties for failure to pay prevailing wages. The Contractor shall, as a penalty to City, forfeit \$200.00 for each calendar day, or portion thereof, for each worker paid less than the prevailing rates as determined by the DIR for the work or craft in which the worker is employed for any public work done pursuant to this Agreement by Contractor or by any subcontractor.

7. Contractor shall comply with and be bound by the provisions of Labor Code Section 1776, which requires Contractor and each subcontractor to: keep accurate payroll records and verify such records in writing under penalty of perjury, as specified in Section 1776; certify and make such payroll records available for inspection as provided by Section 1776; and inform City

of the location of the records. Pursuant to Labor Code Section 1771.4, Contractor and each subcontractor shall furnish such records to the Labor Commissioner, at least monthly, in the form specified by the Labor Commissioner.

8. Contractor shall comply with and be bound by the provisions of Labor Code Sections 1777.5, 1777.6 and 1777.7 and California Administrative Code Title 8, Section 200 et seq. concerning the employment of apprentices on public works projects. Contractor shall be responsible for compliance with these aforementioned Sections for all apprenticeable occupations. Prior to commencing work under this Agreement, Contractor shall provide City with a copy of the information submitted to any applicable apprenticeship program. Within 60 days after concluding work pursuant to this Agreement, Contractor and each of its subcontractors shall submit to City a verified statement of the journeyman and apprentice hours performed under this Agreement.

9. The Contractor shall not perform Work with any Subcontractor that has been debarred or suspended pursuant to California Labor Code Section 1777.1 or any other federal or state law providing for the debarment of contractors from public works. The Contractor and Subcontractors shall not be debarred or suspended throughout the duration of this Contract pursuant to Labor Code Section 1777.1 or any other federal or state law providing for the debarment of contractors from public works. If the Contractor or any subcontractor becomes debarred or suspended during the duration of the project, the Contractor shall immediately notify City.

10. Contractor acknowledges that eight hours labor constitutes a legal day's work. Contractor shall comply with and be bound by Labor Code Section 1810. Contractor shall comply with and be bound by the provisions of Labor Code Section 1813 concerning penalties for workers who work excess hours. The Contractor shall, as a penalty to City, forfeit \$25.00 for each worker employed in the performance of this Agreement by the Contractor or by any subcontractor for each calendar day during which such worker is required or permitted to work more than eight hours in any one calendar day and 40 hours in any one calendar week in violation of the provisions of Division 2, Part 7, Chapter 1, Article 3 of the Labor Code. Pursuant to Labor Code section 1815, work performed by employees of Contractor in excess of eight hours per day, and 40 hours during any one week shall be permitted upon public work upon compensation for all hours worked in excess of eight hours per day at not less than one and one-half times the basic rate of pay.

11. California Labor Code Sections 1860 and 3700 provide that every employer will be required to secure the payment of compensation to its employees. In accordance with the provisions of California Labor Code Section 1861, Contractor hereby certifies as follows:

"I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract."

12. For every subcontractor who will perform work on the project, Contractor shall be responsible for such subcontractor's compliance with Chapter 1 and Labor Code Sections 1860 and 3700, and Contractor shall include in the written contract between it and each subcontractor a copy of those statutory provisions and a requirement that each subcontractor shall comply with those statutory provisions. Contractor shall be required to take all actions necessary to enforce such contractual provisions and ensure subcontractor's compliance, including without limitation, conducting a periodic review of the certified payroll records of the subcontractor and upon becoming aware of the failure of the subcontractor to pay his or her workers the specified prevailing rate of wages. Contractor shall diligently take corrective action to halt or rectify any failure.

13. To the maximum extent permitted by law, Contractor shall indemnify, hold harmless and defend (at Contractor's expense with counsel reasonably acceptable to City) City, its officials, officers, employees, agents and independent contractors serving in the role of City officials, and volunteers from and against any demand or claim for damages, compensation, fines, penalties or other amounts arising out of or incidental to any acts or omissions listed above by any person or entity (including Contractor, its subcontractors, and each of their officials, officers, employees and agents) in connection with any work undertaken or in connection with the Agreement, including without limitation the payment of all consequential damages, attorneys' fees, and other related costs and expenses. All duties of Contractor under this Section shall survive the termination of the Agreement.

AGENDA REPORT
CITY OF MAYWOOD



AGENDA ITEM NO. 5.

DATE: August 25, 2021

TO: HONORABLE MAYOR AND MEMBERS OF THE CITY COUNCIL

FROM: JENNIFER VASQUEZ, CITY MANAGER

BY: SHIRLEY QUINONES, EXECUTIVE ASSISTANT/DEPUTY CITY CLERK

SUBJECT: AN ORDINANCE OF THE CITY OF MAYWOOD AMENDING CHAPTER 7 OF TITLE 3 OF THE MAYWOOD MUNICIPAL CODE TO ESTABLISH THE CITY MANAGER'S AUTHORITY TO APPROVE CERTAIN CHANGE ORDERS FOR PUBLIC PROJECTS

RECOMMENDATION:

Staff recommends that the City Council adopt Ordinance No. 21-02.

BACKGROUND:

The City Council introduced the attached ordinance at their August 11, 2021, waived full reading and read the ordinance by title only.

DISCUSSION:

The Ordinance is being provided for its adoption.

LEGAL REVIEW:

This report and ordinance have been reviewed by the City Attorney.

FISCAL IMPACT:

There is no fiscal impact in adopting this ordinance.

ATTACHMENT(S)

ORDINANCE NO. 21-02

**AN ORDINANCE OF THE CITY OF MAYWOOD AMENDING
CHAPTER 7 OF TITLE 3 OF THE MAYWOOD MUNICIPAL CODE TO
ESTABLISH THE CITY MANAGER'S AUTHORITY TO APPROVE
CERTAIN CHANGE ORDERS FOR PUBLIC PROJECTS**

THE CITY COUNCIL OF THE CITY OF MAYWOOD DOES ORDAIN AS FOLLOWS:

Section 1. Chapter 7 of Title 3 of the Maywood Municipal Code is hereby amended by adding a new Section 3-7.09 to read as follows:

“3-7.09. Change orders

(a) The City Manager shall have the authority to execute change orders for any contract awarded pursuant to this Chapter in an amount not to exceed twenty-five (25%) of the amount of the original contract as long as the work under the change order is reasonably related to the scope of work authorized under the original contract and funding for the public project has been budgeted.

(b) On a regular basis, a report shall be submitted to the City Council outlining all change orders that have been issued to contracts governed by this Chapter during the reporting period.

(c) The limitations in contract authority related to change orders set forth in this section may be modified by resolution of the City Council.

Section 2. Severability. If any section, subsection, sentence, clause, or phrase of this Ordinance is for any reason held to be invalid or unconstitutional by a decision of any court of any competent jurisdiction, such decision shall not affect the validity of the remaining portions of this Ordinance. The City Council hereby declares that it would have passed this Ordinance, and each and every section, subsection, sentence, clause, or phrase not declared invalid or unconstitutional without regard to whether any portion of the Ordinance would be subsequently declared invalid or unconstitutional.

Section 3. Effective Date of Ordinance. This Ordinance shall go into effect and be in full force and operation from and after thirty (30) days after its final passage and adoption.

Section 4. Certification and Publication. The City Clerk shall certify to the adoption of this Ordinance and shall cause the same to be published or posted in the manner prescribed by law.

PASSED, APPROVED AND ADOPTED THIS 25th day of August, 2021.

Ricardo Lara, Mayor

ATTEST:

APPROVED AS TO FORM:

Flor Aguiluz, City Clerk

Roxanne Diaz, City Attorney

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES)
CITY OF MAYWOOD)

I, Flor Aguiluz, City Clerk of the City Council of the City of Maywood, do hereby certify that the foregoing Ordinance No. 21-02 was duly passed and adopted by the City Council of the City of Maywood, at a regular meeting of the City Council held on the 25th day of August, 2021 by the following roll call vote, to wit:

AYES:

NAYES:

ABSENT:

Flor Aguiluz, City Clerk

AGENDA REPORT

CITY OF MAYWOOD



AGENDA ITEM NO. 6.

DATE: August 25, 2021

TO: HONORABLE MAYOR AND MEMBERS OF THE CITY COUNCIL

FROM: JENNIFER VASQUEZ, CITY MANAGER

BY: JENNIFER VASQUEZ, CITY MANAGER

SUBJECT: DISCUSSION AND DIRECTION REGARDING THE CITY'S ALLOCATION FROM THE AMERICAN RESCUE PLAN ACT OF 2021 (ARPA)

RECOMMENDATION:

It is recommended that the City Council provide staff with direction for community outreach efforts and programming of the funding to be received thru ARPA.

BACKGROUND:

The ARPA of 2021 was passed by both houses of the U.S. Congress and signed into law by President Biden on March 11, 2021. The bill is intended to mitigate many of the worst effects of the COVID-19 pandemic. It includes \$1.9 trillion in stimulus measures and ranges from targeting individual families, health care, affected sectors and government action.

Maywood, with a population of about 27,000, will receive a "Small City Allocation;" this was determined by using the population data provided by the Treasury. To access these funds, cities and towns were required to submit a request to their respective states and provide information outlined in recent Treasury guidance. Pursuant to the Act, the amount distributed to these entities is capped at 75 percent of the entity's operating budget as of January 27, 2020. These funds are available to cover costs incurred by local governments beginning March 3, 2021. The funds must be obligated by December 31, 2024 and expended by December 31, 2026. Local governments will receive the funds in two payments with 50 percent of the funds being provided at the beginning of May 2021 and the balance provided 12 months later.

DISCUSSION:

As the City Council considers the direct aid portion of the ARPA allocation (\$6,452,515million), the major factors that need to be considered are the following:

- Needs Assessment/Public Communications Strategy
- Intended uses for community focused solutions
- Time frame under which the funds will be expended
- Reporting

Needs Assessment/Public Communications Strategy

- City Council reviews the needs of the community to provide staff direction for programming.
- Program Development—Outreach to Community to identify priorities and needs
- Ongoing Public Communications Strategy—share performance outcomes with community

Intended Use

The City Council has a wide latitude for use of the funds, though some purposes, such as pension payments, are restricted. The City Council may direct that the funds are used for revenue replacement or ongoing uses, such as staffing, or for one-time uses in recognition that the ARPA is one-time money, or some combination of purposes.

Short-Term Revenue Replacement:

- ARPA funds can be used to replace revenues to the extent of reduction in revenues.
 - Base year will be full year pre-covid revenues (FY ended 6/30/2019)
 - All revenues including both General Fund and Special Revenue funds will be included in the calculation.
 - The calculation for the reduction in revenues assumes a 4.1% growth rate.
 - The amount of ARPA funds that can be used to replace revenues will be based on an aggregate reduction in revenues.

Examples of Eligible Uses for One-Time Use:

- Services to Disproportionately Impacted Communities:
 - Education assistance for early learning, social, emotional, and mental health services
 - Assist with establishing or continuing healthy childhood environments
 - Community wellness and crime reduction
- Address negative economic impacts:
 - Household assistance: internet access programs, eviction prevention, housing counseling services, transitional sheltering, rapid rehousing to reduce/eliminate localized homelessness
 - Small Business assistance: direct support, façade improvements
- Job Training Assistance/Workforce Development:
 - Sectoral job-training
 - Subsidized employment
 - Employment support or incentives
- Preparation and Future Planning:
 - HVAC upgrades to prepare for post-pandemic services
 - Strategic Investments in operational and business continuity
 - IT modernization
 - Constituent Service Investments
- Invest in water, sewer, and broadband infrastructure.

Staffing Recommendation:

The ARPA funds require reporting that is not within our current capacity. Due to this staff recommends consideration to bringing in temporary staff or other professional services to ensure the city meets its reporting requirements and implements the final program adopted by the City Council by the required timeframe.

Reporting Requirements:

Small cities and towns are required to submit a project and expenditure report to Treasury annually on the use of funds. Reporting guidance from the Treasury is forthcoming. Reports will include the same general data as those submitted by recipients of the Coronavirus Relief Funds, with some modifications to expenditure categories and the addition of data elements related to eligible uses. The first report is due to Treasury by October 31, 2021 and will cover activity from the date of the award to September 30, 2021. The subsequent annual reports must be submitted to Treasury by October 31 each year. In addition to other reporting

requirements, small cities and towns will be asked to provide:

- NEU Recipient Number (the unique identification code assigned by the state to each NEU).
- Copy of signed Award Terms and Conditions Agreement.
- Copy of signed Assurances of Compliance with Title VI of the Civil Rights Act of 1964.
- Copy of actual budget documents validating the top-line budget total provided to the State as part of the request for funding.

All financial records and supporting documentation related to the award must be retained for a period of five years after all funds have been expended.

LEGAL REVIEW:

The City Attorney has reviewed this report.

FISCAL IMPACT:

There is no fiscal impact associated with this staff report.

ATTACHMENT(S)

RESOLUTION NO.

RESOLUTION NAME

RESOLUTION BODY