



AGENDA

Garden Grove City
Council

Tuesday, May 11, 2021

6:30 PM

Community Meeting
Center, 11300 Stanford
Avenue, Garden Grove,
California 92840

Steve Jones

Mayor

Kim B. Nguyen

Mayor Pro Tem - District 6

George S. Brietigam

Council Member - District 1

John R. O'Neill

Council Member - District 2

Diedre Thu-Ha Nguyen

Council Member - District 3

Patrick Phat Bui

Council Member - District 4

Stephanie Klopfenstein

Council Member - District 5

COVID-19 Information: Masks are required to be worn and adherence to six foot distancing from others when attending public meetings.

Meeting Assistance: Any person requiring auxiliary aids and services, due to a disability, to address the City Council, should contact the City Clerk's Office 72 hours prior to the meeting to arrange for accommodations. Phone: (714) 741-5040.

Agenda Item Descriptions: Are intended to give a brief, general description of the item. The City Council may take legislative action deemed appropriate with respect to the item and is not limited to the recommended action indicated in staff reports or the agenda.

Documents/Writings: Any revised or additional documents/writings related to an item on the agenda distributed to all or a majority of the Council Members within 72 hours of a meeting, are made available for public inspection at the same time (1) in the City Clerk's Office at 11222 Acacia Parkway, Garden Grove, CA 92840, during normal business hours; (2) on the City's website as an attachment to the City Council meeting agenda; and (3) at the Council Chamber at the time of the meeting.

Public Comments: Members of the public desiring to address the City Council are requested to complete a **pink speaker card** indicating their name and address, and identifying the subject matter they wish to address. This card should be given to the City Clerk prior to the start of the meeting. General comments are made during "Oral Communications" and should be limited to matters under consideration and/or what the City Council has jurisdiction over. Persons wishing to address the City Council regarding a Public Hearing matter will be called to the podium at the time the matter is being considered.

Manner of Addressing the City Council: After being called by the Mayor, you may approach the podium, it is requested that you state your name for the record, and proceed to address the City Council. All remarks and questions should be addressed to the City Council as a whole and not to individual Council Members or staff members. Any person making impertinent, slanderous, or profane remarks or who becomes boisterous while addressing the City Council shall be called to order by the Mayor. If such conduct continues, the Mayor may order the person barred from addressing the City Council any further during that meeting.

Time Limitation: When any group of persons wishes to address the City Council on the same subject matter, the Mayor may request a spokesperson be chosen to represent the group, so as to avoid unnecessary repetition. At the City Council's discretion, a limit on the total amount of time for public comments during Oral Communications and/or a further limit on the time allotted to each speaker during Oral Communications may be set.

PLEASE SILENCE YOUR CELL PHONES DURING THE MEETING.

AGENDA

ROLL CALL: COUNCIL MEMBER BRIETIGAM, COUNCIL MEMBER O'NEILL, COUNCIL MEMBER D. NGUYEN, COUNCIL MEMBER BUI, COUNCIL MEMBER KLOPFENSTEIN, MAYOR PRO TEM K. NGUYEN, MAYOR JONES

INVOCATION

PLEDGE OF ALLEGIANCE TO THE FLAG OF THE UNITED STATES OF AMERICA

1. ORAL COMMUNICATIONS (to be held simultaneously with other legislative bodies)

RECESS

CONDUCT OTHER LEGISLATIVE BODIES' BUSINESS

RECONVENE

2. CONSENT ITEMS

(Consent Items will be acted on simultaneously with one motion unless separate discussion and/or action is requested by a Council Member.)

- 2.a. Appropriation of Fiscal Year 2020-21 Public Safety Realignment and Post-release Community Supervision funds. *(Action Item)*
- 2.b. Adoption of a Resolution designating authorized agents of the City for the Emergency Management Performance Grant for grant cycles 2020-2021 and 2021-2022. *(Action Item)*
- 2.c. Award of contract to OC Striping Services, Inc. for On-Call Street Striping and Sign Installation. (Cost: Not-to-exceed \$196,000 per year for 5 years) *(Action Item)*
- 2.d. Receive and file warrants. *(Action Item)*
- 2.e. Approval to waive full reading of ordinances listed. *(Action Item)*

3. ITEMS FOR CONSIDERATION

- 3.a. Adoption of a Resolution approving and adopting the 2020 Urban Forest Management Plan, and the introduction and first reading of

an Ordinance amending Chapter 11.32 of the Municipal Code.

Entitled:

An Ordinance of the City Council of the City of Garden Grove amending Chapter 11.32 of Title 11 of the Garden Grove Municipal Code pertaining to trees on public places. (*Action Item*)

- 3.b. Award of a contract to CT&T Concrete Paving, Inc. for On-Call Concrete Construction, IFB No. S-1281. (Cost: \$600,000 each year for 5 years) (*Action Item*)
- 3.c. Approval of a purchase order with Lenco Industries, Inc. for one public safety response vehicle, and approval to appropriate funding. (Cost: \$285,188.18) (*Action Item*)

4. MATTERS FROM THE MAYOR, CITY COUNCIL MEMBERS, AND CITY MANAGER

5. ADJOURNMENT

The next Regular City Council Meeting will be on May 25, 2021, at 5:30 p.m., in the Community Meeting Center, 11300 Stanford Avenue, Garden Grove, California, 92840.

City of Garden Grove

INTER-DEPARTMENT MEMORANDUM

To:	Scott C. Stiles	From:	Tom DaRe
Dept.:	City Manager	Dept.:	Police
Subject:	Appropriation of Fiscal Year 2020-21 Public Safety Realignment and Post-release Community Supervision funds. (<i>Action Item</i>)		
		Date:	5/11/2021

OBJECTIVE

To obtain City Council approval to use funds allocated by the State for Public Safety Realignment and Post-Release Community Supervision, and to appropriate these funds for Fiscal Year 2020-21 budget.

BACKGROUND

Assembly Bill 109, titled "2011 Realignment Legislation Addressing Public Safety," became effective on July 1, 2011, and provided for the enactment of the "2011 Postrelease Community Supervision Act" (herein after referred to as "AB109"). AB109 requires that certain offenders be released into the community under the supervision of a designated county agency (Orange County Probation).

Prior to this legislation, these offenders would have either remained incarcerated in State prison or been released under the supervision of State Parole. AB109 shifted the burden of "supervision" from the State to local law enforcement agencies.

DISCUSSION

The City of Garden Grove (City) received an allocation of approximately \$147,639 in FY 2020-21 state AB109 funding for local law enforcement agencies. A portion of each years' allocation is released on a quarterly basis to the City, and the City is now in receipt of the entire allocated amount. This funding provides additional resources for local law enforcement services, and supplanting is prohibited by statute.

FINANCIAL IMPACT

Using AB109 funds to supplement funding for public safety-related services creates no impact on the City's General Fund.

RECOMMENDATION

It is recommended that the City Council:

- Authorize the appropriation of Fiscal Year 2020-21 Public Safety Realignment and Post-Release Community Supervision funds to the Police Department for Fiscal Year 2020-21 budget.

ATTACHMENTS:

Description	Upload Date	Type	File Name
OCCCO FY 20-21 LLE Allocation CCP Approved	4/21/2021	Backup Material	OCCCP_07.23.2020_FY_20- 21_LLE_Allocation_CCP_approved.pdf

SUMMARY ACTION MINUTES

REGULAR MEETING ORANGE COUNTY COMMUNITY CORRECTIONS PARTNERSHIP

Thursday, July 23, 2020, 2:00 P.M.



STEVE SENTMAN, Chair
Chief Probation Officer

TOM DARÉ
Chief of Police, Garden Grove

MARTIN SCHWARZ, Interim
Public Defender

DON BARNES
Sheriff-Coroner

JEFF NAGEL
Health Care Agency

TODD SPITZER
District Attorney

ATTENDANCE: Members DaRé, Nagel, Schwarz, Spitzer, Balicki (Alternate for Barnes) and Prieto (Alternate for Sentman) (All Members participated via zoom)

EXCUSED: Members Barnes and Sentman

COUNTY COUNSEL: Wendy Phillips, Deputy (participated via zoom)

CLERK OF THE PARTNERSHIP: Jamie Ross & Sonia Acuna, Deputy Clerks (participated via zoom)

ADMINISTRATIVE MATTERS: (Items 1 - 8)

1. Welcome and Introductions

ACTING CHAIR CALLED ROLL AND CONFIRMED A QUORUM

2. Receive and file FY 2020-21 AB 109 funding allocation based on Governor's May Revise, including update on Realignment Backfill

RECEIVED

3. Discussion of AB 109 goals for Board of State and Community Corrections (BSCC) CCP survey

DISCUSSED

4. Receive and file Quarterly Report for January – March 2020

RECEIVED

5. Receive and file Quarterly Report for April – June 2020

RECEIVED

SUMMARY ACTION MINUTES

6. Discussion and approval of revised bylaws

36124578 **APPROVED AS PRESENTED**

x x

7. Discussion and approval of project to be funded with FY 2020-21 and FY 2021-22 Public Safety Realignment: Enhancing Quality and Access to Collaborative Treatment Court Programs data (Courts - \$533, 853) (*Continued from 2/27/20, Item 2*)

68123457 **APPROVED TO CONTINUE ITEM TO 10/22/20, 2:00 P.M. REGULAR MEETING**

x x

P.O. **DIRECTED CEO BUDGET STAFF TO PROVIDE FURTHER INFORMATION AS TO WHERE FUNDS CAN BE FOUND**

8. Realignment Updates:

- CCP Coordinator
- Probation
- Sheriff
- District Attorney
- Public Defender
- Courts
- Health Care/Mental Health
- Local Law Enforcement
- Board of Supervisors
- Social Services
- OC Community Resources
- OC Department of Education
- Community-Based Organization (Representative)
- Waymakers (Victims Representative)

PRESENTED; MEMBER SPITZER REQUESTED COPY OF UCI INVOICE

PUBLIC & PARTNERSHIP COMMENTS:

PUBLIC COMMENTS: None

PARTNERSHIP COMMENTS: None

ADJOURNED: 3:23 P.M.

SUMMARY ACTION MINUTES

*** KEY ***

Left Margin Notes

- | | |
|----------------------------|--------------------------|
| 1 Don Barnes | A = Abstained |
| 2 Tom DaRé | X = Excused |
| 3 Jeff Nagel | N = No |
| 4 Martin Schwarz | P.O. = Partnership Order |
| 5 Steve Sentman | |
| 6 Todd Spitzer | |
| 7 Joe Balicki (Alternate) | |
| 8 Bryan Prieto (Alternate) | |

(1st number = Moved by; 2nd number = Seconded by)

/s/

BRYAN PRIETO
Acting Chair

/s/

Jamie Ross, Deputy
Clerk of the Partnership

FY 2020/21 Proposed AB 109 Allocation

Department	Base		Growth		Base		Performance			Base		Performance							
	6.394%		8.9727%		6.394%		8.9727%			6.394%		8.9727%							
	1,458,582,000		92,620,000		1,173,766,000		-			1,173,766,000		-							
	93,259,879		7,479,463		100,739,342		75,049,106			75,049,106		-		75,049,106					
	FY 2020/21 GOVERNOR'S BUDGET - JANUARY PROPOSED					FY 2020-21 GOVERNOR'S BUDGET - MAY REVISE						FY 2020-21 GOVERNOR'S BUDGET - MAY REVISE w/JULY BACKFILL							
	FY 20/21 Estimated Base Allocation	%	FY 19/20 Performance Growth	%	APPROVED FY 20/21 Total Allocation	FY 20/21 Estimated Base Allocation	%	FY 19/20 Performance Growth	%	FY 20-21 Total Allocation	Variance Jan to May Revise	FY 20/21 Estimated Base Allocation	%	FY 19/20 Performance Growth	Backfill fr \$750M Note 1	%	FY 20-21 Total Allocation	Backfill fr \$250M Note 1	
Sheriff	51,237,205	54.9%	-	0.00%	51,237,205	41,232,162	54.9%	-	0.00%	41,232,162	(10,005,043)	41,232,162	54.9%	-	3,140,411	0.00%	44,372,573	1,046,803	
Probation	17,547,609	18.8%	4,597,476	61.47%	22,145,085	14,121,103	18.8%	-	0.00%	14,121,103	(8,023,982)	14,121,103	18.8%	-	1,075,521	0.00%	15,196,624	358,507	
HCA (In/Post-Custody)	19,663,931	21.1%	-	0.00%	19,663,931	15,824,173	21.1%	-	0.00%	15,824,173	(3,839,758)	15,824,173	21.1%	-	1,205,234	0.00%	17,029,407	401,745	
District Attorney	1,326,103	1.4%	-	0.00%	1,326,103	1,067,156	1.4%	-	0.00%	1,067,156	(258,947)	1,067,156	1.4%	-	81,279	0.00%	1,148,435	27,093	
Public Defender	1,619,833	1.7%	-	0.00%	1,619,833	1,303,530	1.7%	-	0.00%	1,303,530	(316,303)	1,303,530	1.7%	-	99,282	0.00%	1,402,812	33,094	
Local Law Enforcement (Total)	1,865,198	2.0%	-	0.00%	1,865,198	1,500,982	2.0%	-	0.00%	1,500,982	(364,216)	1,500,982	2.0%	-	114,321	0.00%	1,615,303	38,107	
CEO (Coordinator)	-	0.0%	-	0.00%	-	-	0.0%	-	0.00%	-	-	-	0.0%	-	-	0.00%	-	-	
Reentry Services/Other Projects	-	0.0%	2,881,987	38.53%	2,881,987	-	0.0%	-	0.00%	-	(2,881,987)	-	0.0%	-	-	0.00%	-	-	
Total (LE03)	93,259,879	100.0%	7,479,463	100.0%	100,739,342	75,049,106	100.0%	-	0.00%	75,049,106	(25,690,236)	75,049,106	100.0%	-	5,716,048	0.00%	80,765,154	1,905,349	
DA/PD PCS Representation (LE04)															(0)		(0)	(0)	
District Attorney	1,558,690	50.00%	182,337	50.00%	1,741,028	1,193,003	50.0%	-	50.0%	1,193,003	(548,025)	1,193,003	50.0%	-	114,103	50.0%	1,307,106	38,035	
Public Defender	1,558,690	50.00%	182,337	50.00%	1,741,028	1,193,003	50.0%	-	50.0%	1,193,003	(548,025)	1,193,003	50.0%	-	114,103	50.0%	1,307,106	38,035	
Total (LE04)	3,117,381	100.00%	364,675	100.00%	3,482,056	2,386,005	100.0%	-	100%	2,386,005	(1,096,050)	2,386,005	100.0%	-	228,206	100%	2,614,211	76,069	
LE03 Check Figure		(0)	(0)		0	0	-		0	0		0		-	-	(5,716,048)		-	

LE04

FY 20/21 assumed same percentage allocation as FY 19/20 at 6.53538973%.

Per State Budget (Acct 5196, Sub Accts 3224 & 3232)

Note 1

The \$750M backfill is provided directly from the State General Fund; thus, being added to the FY 20-21 base allocation. The \$250M backfill is dependent upon the state receiving additional federal COVID-19 relief to be determined on 10/15/2020; thus, not being added to the FY 20-21 base allocation.

State Budget

**2011 Public Safety Realignment
FY 2020-21 LLE Allocation based on AB109 Population**

City/Agency	Reported Offenders	Adjusted %	Allocation Jan Proposed CCP Approved	Allocation May Revise w/Backfill
OCSD Contract Cities	144	10.88%	202,934	175,745
Anaheim	246	18.58%	346,554	300,123
Brea	6	0.45%	8,393	7,269
Buena Park	31	2.34%	43,646	37,798
Costa Mesa	39	2.95%	55,023	47,651
Cypress	8	0.60%	11,191	9,692
Fountain Valley	17	1.28%	23,875	20,676
Fullerton	73	5.51%	102,772	89,003
Garden Grove	121	9.14%	170,479	147,639
Huntington Beach	58	4.38%	81,696	70,750
Irvine	18	1.36%	25,367	21,968
La Habra	26	1.96%	36,558	31,660
La Palma	4	0.30%	5,596	4,846
Laguna Beach	9	0.68%	12,683	10,984
Los Alamitos	3	0.23%	4,290	3,715
Newport Beach	16	1.21%	22,569	19,545
Orange	52	3.93%	73,302	63,481
Placentia	19	1.44%	26,859	23,260
Santa Ana	371	28.02%	522,628	452,608
Seal Beach	2	0.15%	2,798	2,425
Tustin	23	1.74%	32,454	28,106
Westminster	38	2.87%	53,531	46,359
Total	1,324	100.00%	1,865,198	1,615,303

FY 20/21 Allocation: \$ 1,865,198 *approved by CCP on 2/27/2020* 1,615,303

Source: Information on the number of Reported Offenders is based on the number of PCS Releases from Prison on active supervision as of 12/31/2019 as reported by the OC Probation on the PCS Monthly Stats from January - December 2019.

Allocation is distributed based on the percentages of the Reported Offenders within Orange County.

City of Garden Grove

INTER-DEPARTMENT MEMORANDUM

To:	Scott C. Stiles	From:	Chief DaRe
Dept.:	City Manager	Dept.:	Police
Subject:	Adoption of a Resolution designating authorized agents of the City for the Emergency Management Performance Grant for grant cycles 2020-2021 and 2021-2022. (<i>Action Item</i>)		
Date:	5/11/2021		

OBJECTIVE

To have City Council to adopt the Resolution designating Authorized Agents of the City for the Fiscal Years 2020-2022 Emergency Management Performance Grant (EMPG).

BACKGROUND

Through the EMPG grant the Police Department receives reimbursement funds from the Department of Homeland Security subawarded through the California Office of Emergency Services for a comprehensive all hazards emergency preparedness program.

DISCUSSION

The California Office of Emergency Services (CalOES) requires that a resolution be adopted every two years at the maximum. The attached Resolution provides for the three named positions that will be authorized to sign for the City in matters that pertain to executing documents for reimbursements from emergency declarations and preparedness programs.

FINANCIAL IMPACT

The City will incur no financial impact as a result of the action being requested.

RECOMMENDATION

It is recommended that the City Council:

- Adopt the attached Resolution designating Authorized Agents of the City for the purpose of obtaining federal financial assistance provided by the federal department of Homeland Security financial assistance and reimbursement.

ATTACHMENTS:

Description	Upload Date	Type	File Name
Resolution	5/4/2021	Resolution	5-11-21_FYs_2020_-_2022_EMPG__Governing_Body_Resolution_(REVISED).pdf

Governing Body Resolution

BE IT RESOLVED BY THE City Council

(Governing Body)
OF THE City of Garden Grove THAT

(Name of Applicant)
Police Chief, OR

(Name or Title of Authorized Agent)
Emergency Services Coordinator, OR

(Name or Title of Authorized Agent)
Finance Director,

(Name or Title of Authorized Agent)

is hereby authorized to execute for and on behalf of the named Applicant, a public entity established under the laws of the State of California, any actions necessary for the purpose of obtaining federal financial assistance provided by the federal Department of Homeland Security and subgranted through the State of California for the following Grant Award:

FISCAL YEARS 2020 - 2022 EMERGENCY MANAGEMENT PERFORMANCE GRANT

(List Grant Year and Program)

Passed and approved this 11 day of May, 2021

Certification

I, Lizabeth Vasquez, duly appointed and

(Name)

Deputy City Clerk Of the City of Garden Grove

(Title) (Governing Body)

do hereby certify that the above is a true and correct copy of a resolution passed and approved by the
11th day of May, 20 21

Deputy City Clerk

(Official Position)

(Signature)

(Date)

City of Garden Grove

INTER-DEPARTMENT MEMORANDUM

To: Scott C. Stiles From: William E. Murray

Dept.: City Manager Dept.: Public Works

Subject: Award of contract to OC Striping Services, Inc. for On-Call Street Striping and Sign Installation. (Cost: Not-to-exceed \$196,000 per year for 5 years) (*Action Item*) Date: 5/11/2021

OBJECTIVE

For City Council to award a contract to OC Striping Services, Inc. for the City's on-call street striping and sign installation program in an amount not-to-exceed \$196,000 per year.

BACKGROUND

The Public Works Department utilizes on-call contract services to maintain the City's signing and striping. With the expiration of the current contract on February 9, 2021, staff solicited requests for proposals from several contractors who specialize in this type of work. This service is essential in maintaining the City's street striping, curb markings and sign maintenance. The City's residential streets have been broken up into four (4) zones and every other year, two (2) of the zones get re-striped by means of this service. Re-striping includes stop bars, crosswalks, lane markings, pavement legends and curb markings. In addition, this service allows staff to respond to residents requests in a timely manner when the request pertains to signing and striping.

DISCUSSION

Staff sent out four (4) requests for proposal to signing and striping contractors and received three (3) proposals. A panel consisting of three staff members rated the proposals on the basis of qualifications, work plan and references. Based on the evaluation results, OC Striping Services, Inc. was rated the highest. The following is a summary of the ratings:

Consultant	Rater A	Rater B	Rater C	Totals
OC Striping Services, Inc.	188.0	168.5	187.0	543.5

Superior Pavement Markings	171.5	150.0	171.0	492.5
Safe USA	170.75	146.0	145.5	462.25

FINANCIAL IMPACT

It is anticipated that the contract will be established in the not-to-exceed amount of \$196,000 per year with the option to extend the agreement in one (1) year increments, for a total performance period of five (5) years. Funding will be provided by the General Fund; funding for this program is included in Traffic Engineering's operational budget.

RECOMMENDATION

Staff recommends that the City Council:

- Award a contract to OC Striping Services, Inc., in the not-to-exceed amount of \$196,000.00 per year with the option to extend the agreement in one (1) year increments, for a total performance period of five (5) years;
- Authorize the City Manager to execute the agreement, and make minor modifications as appropriate thereto, on behalf of the City; and
- Authorize the City Manager to exercise each option term and sign the option year amendments.

By: Juan Navarro, Assistant Engineer

ATTACHMENTS:

Description	Upload Date	Type	File Name
Agreement	5/4/2021	Agreement	5-11-21_OC_Striping_Service__Inc._Agreement.pdf

CONSULTANT AGREEMENT

THIS AGREEMENT is made this _____ day of _____ 2021, by the CITY OF GARDEN GROVE, a municipal corporation, ("CITY"), and Orange County Striping Service, Inc., a California Corporation ("CONSULTANT").

RECITALS

The following recitals are a substantive part of this Agreement:

1. This Agreement is entered into pursuant to Garden Grove Council authorization dated _____
2. CITY desires to utilize the services of CONSULTANT to Furnish all Labor, Material, and Equipment for Street Striping, Curb Painting and Signage Services on an as-needed basis for the City of Garden Grove.
3. CONSULTANT is qualified by virtue of experience, training, education and expertise to accomplish services.

AGREEMENT

THE PARTIES MUTUALLY AGREE AS FOLLOWS:

1. **Term of Agreement:** This Agreement shall cover services rendered from date of this Agreement until (1) one year thereafter, with option to extend agreement in one (1) year increments, for a total performance period of five (5) years unless otherwise terminated per Section 3.5
2. **Services to be Provided:** The services to be performed by CONSULTANT shall consist of the services as further specified in CONSULTANT'S proposal attached hereto as Exhibit "A" and incorporated herein by reference and all the requirements specified in the City's request for proposal attached hereto as Exhibit "B". CONSULTANT agrees that its provision of Services under this agreement shall be within accepted accordance with customary and usual practices in CONSULTANT'S profession. By executing this Agreement, CONSULTANT warrants that it has carefully considered how the work should be performed and fully understands the facilities, difficulties, and restrictions attending performance of the work under this agreement.
3. **Compensation.** CONSULTANT shall be compensated as follows:
 - 3.1 **Amount.** Compensation under this Agreement shall be per fee schedule included in the Proposal.
 - 3.2 **Not to Exceed.** Compensation under this Agreement shall not exceed \$196,000 per year.

- 3.3 **Payment.** For work under this Agreement, payment shall be made per monthly invoice. For extra work not a part of this Agreement, a written authorization by CITY will be required.
- 3.4 **Records of Expenses.** CONSULTANT shall keep complete and accurate records of payroll costs, travel and incidental expenses. These records will be made available at reasonable times to CITY.
- 3.5 **Termination.** CITY and CONSULTANT shall each have the right to terminate this Agreement, without cause, by giving thirty-(30) days written notice of termination to the other party. If CITY terminates the project, then the provisions of paragraph 3 shall apply to that portion of the work completed.

4. **Contractor's Employee Compensation.**

- 4.1 **General Prevailing Rate.** CONTRACTOR shall comply with all applicable requirements of Division 2, Part 7, Chapter 1 of the California Labor Code and all applicable federal requirements respecting the payment of prevailing wages. If there is a difference between the minimum wage rates predetermined by the Secretary of Labor and the prevailing wage rates determined by the Director of the Department of Industrial Relations (DIR) for similar classifications of labor, the CONTRACTOR and its Sucontractors shall pay not less than the higher wage rate. The DIR will not accept lower State wage rates not specifically included in the Federal minimum wage determinations. This includes "helper" (or other classifications based on hours of experience) or any other classification not appearing in the Federal Wage determinations. Where Federal wage determinations do not contain the State wage rate determination otherwise available for use by the CONTRACTOR and Subcontractors, the CONTRACTOR and its Subcontractors shall pay not less than the Federal Minimum wage rate which most closely approximates the duties of the employees in question." CONTRACTOR shall be responsible for compliance with the most recent Federal Wage Requirements and may reference <http://www.wdol.gov/dba.aspx#0>.
- 4.2 **Forfeiture for Violation.** CONTRACTOR shall, as a penalty to the CITY, forfeit fifty dollars (\$50.00) for each calendar day or portion thereof for each worker paid (either by the CONTRACTOR or any subcontractor under it) less than the prevailing rate of per diem wages as set by the Director of Industrial Relations, in accordance with Sections 1770-1780 of the California Labor Code for the work provided for in this Contract, all in accordance with Section 1775 of the Labor Code of the State of California.
- 4.3 **Travel and Subsistence Pay.** Section 1773.8 of the Labor Code of the State of California, regarding the payment of travel and subsistence payments, is applicable to this Contract and CONTRACTOR shall comply therewith.

- 4.4 **Apprentices.** Section 1777.5, 1777.6 and 1777.7 of the Labor Code of the State of California, regarding the employment of apprentices is applicable to this Contract and the CONTRACTOR shall comply therewith if the prime contract involves thirty thousand dollars (\$30,000.00) or more or twenty (20) working days, or more; or if contracts of specialty contractors not bidding for work through the general or prime contractor are two thousand dollars (\$2,000.00) or more for five (5) working days or more.
- 4.5 **Workday.** In the performance of this Contract, not more than eight (8) hours shall constitute a day's work, and CONTRACTOR shall not require more than eight (8) hours of labor in a day from any person employed by him thereunder except as provided in paragraph (4.14.2) above. CONTRACTOR shall conform to Article 3, Chapter 1, Part 7 (Sections 1810 et seq.) of the Labor Code of the State of California and shall forfeit to the CITY as a penalty, the sum of twenty-five dollars (\$25.00) for each worker employed in the execution of this Contract by CONTRACTOR or any subcontractor for each calendar day during which any worker is required or permitted to labor more than eight (8) hours in any one calendar day and forty (40) hours in any one week in violation of said Article. CONTRACTOR shall keep an accurate record showing the name and actual hours worked each calendar day and each calendar week by each worker employed by CONTRACTOR in connection with the Project.
- 4.6 **Records of wages: Inspection.** CONTRACTOR agrees to maintain accurate payroll records showing the name, address, social security number, work classification, straight-time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker or other employee employed by it in connection with the Project and agrees to require that each of its subcontractors does the same. All payroll records shall be certified as accurate by the applicable contractor or subcontractor or its agent have authority over such matters. CONTRACTOR further agrees that its payroll records and those of its subcontractors shall be available to the employee or employee's representative, the Division of Labor Standards Enforcement, and the Division of Apprenticeship Standards and shall comply with all the provisions of Labor Code Section 1776, in general.

5. **Insurance Requirements**

- 5.1 **Commencement of Work** CONSULTANT shall not commence work under this Agreement until all certificates and endorsements have been received and approved by the CITY. All insurance required by this Agreement shall contain a Statement of Obligation on the part of the carrier to notify the CITY of any material change, cancellation, or termination at least thirty (30) days in advance.

- 5.2 Workers Compensation Insurance For the duration of this Agreement, CONSULTANT and all subcontractors shall maintain Workers Compensation Insurance in the amount and type required by law, if applicable. The insurer shall waive its rights of subrogation against the CITY, its officers, officials, agents, employees, and volunteers.
- 5.3 Insurance Amounts CONSULTANT shall maintain the following insurance for the duration of this Agreement:
- a) Commercial general liability in the amount of \$2,000,000 per occurrence; (claims made and modified occurrence policies are not acceptable); Insurance companies must be admitted and licensed in California and have a Best's Guide Rating of A-, Class VII or better, as approved by the CITY;
 - b) Automobile liability in the amount of \$1,000,000 per occurrence; (claims made and modified occurrence policies are not acceptable) Insurance companies must be admitted and licensed in California and have a Best's Guide Rating of A-, Class VII or better, as approved by the CITY.
 - c) Professional liability in the amount of \$1,000,000 per occurrence; Insurance companies must be acceptable to CITY and have an AM Best's Guide Rating of A-, Class VII or better, as approved by the CITY. If the policy is written on a "claims made" basis, the policy shall be continued in full force and effect at all times during the term of the agreement, and for a period of three (3) years from the date of the completion of services provided. In the event of termination, cancellation, or material change in the policy, professional/consultant shall obtain continuing insurance coverage for the prior acts or omissions of professional/consultant during the course of performing services under the term of the agreement. The coverage shall be evidenced by either a new policy evidencing no gap in coverage, or by obtaining separate extended "tail" coverage with the present or new carrier.

An Additional Insured Endorsement, **ongoing and completed operations**, for the policy under section 4.3 (a) shall designate CITY, its officers, officials, employees, agents, and volunteers as additional insureds for liability arising out of work or operations performed by or on behalf of the CONSULTANT. CONSULTANT shall provide to CITY proof of insurance and endorsement forms that conform to city's requirements, as approved by the CITY.

An Additional Insured Endorsement for the policy under section 4.3 (b) shall designate CITY, its officers, officials, employees, agents, and volunteers as additional insureds for automobiles owned, lease, hired, or borrowed by CONSULTANT. CONSULTANT shall provide to CITY proof

of insurance and endorsement forms that conform to CITY's requirements, as approved by the CITY.

For any claims related to this Agreement, CONSULTANT's insurance coverage shall be primary insurance as respects to CITY, its officers, officials, employees, agents, and volunteers. Any insurance or self-insurance maintained by the CITY, its officers, officials, employees, agents, or volunteers shall be excess of the CONSULTANT's insurance and shall not contribute with it.

If CONSULTANT maintains higher insurance limits than the minimums shown above, CONSULTANT shall provide coverage for the higher insurance limits otherwise maintained by the CONSULTANT.

6. **Non-Liability of Officials and Employees of the CITY.** No official or employee of CITY shall be personally liable to CONSULTANT in the event of any default or breach by CITY, or for any amount, which may become due to CONSULTANT.
7. **Non-Discrimination.** CONSULTANT covenants there shall be no discrimination against any person or group due to race, color, creed, religion, sex, marital status, age, handicap, national origin or ancestry, in any activity pursuant to this Agreement.
8. **Independent Contractor.** It is understood and agreed that CONSULTANT, including CONSULTANT's employees, shall act and be independent contractor(s) and not agent(s) or employee(s) of CITY, and that no relationship of employer-employee exists between the parties. CONSULTANT's assigned personnel shall not obtain or be entitled to any rights or benefits that accrue to, or are payable to, CITY employees, and CONSULTANT shall so inform each employee organization and each employee who is hired or retained under this Agreement. CITY is not required to make any deductions or withholdings from the compensation payable to CONSULTANT under the provisions of this Agreement, and is not required to issue W-2 Forms for income and employment tax purposes for any of CONSULTANT's assigned personnel. CONSULTANT hereby expressly assumes all responsibility and liability for the payment of wages and benefits to its assigned personnel, and all related reporting and withholding obligations. CONSULTANT hereby agrees to indemnify and hold CITY harmless from any and all claims or liabilities that CITY may incur arising from any contention by any third party, including, but not limited to, any employee of CONSULTANT or any federal or state agency or other entity, that an employer-employee relationship exists by reason of this Agreement, including, without limitation, claims that CITY is responsible for retirement or other benefits allegedly accruing to CONSULTANT's assigned personnel.
9. **Compliance With Law.** CONSULTANT shall comply with all applicable laws, ordinances, codes and regulations of the federal, state and local government. CONSULTANT shall comply with, and shall be responsible for causing all

contractors and subcontractors performing any of the work pursuant to this Agreement, if any, to comply with, all applicable federal and state labor standards, including, to the extent applicable, the prevailing wage requirements promulgated by the Director of Industrial Relations of the State of California Department of Labor. The City makes no warranty or representation concerning whether any of the work performed pursuant to this Agreement constitutes public works subject to the prevailing wage requirements.

10. **Disclosure of Documents.** All documents or other information developed or received by CONSULTANT are confidential and shall not be disclosed without authorization by CITY, unless disclosure is required by law.
11. **Ownership of Work Product.** All documents or other information developed or received by CONSULTANT shall be the property of CITY. CONSULTANT shall provide CITY with copies of these items upon demand or upon termination of this Agreement.
12. **Conflict of Interest and Reporting.** CONSULTANT shall at all times avoid conflict of interest or appearance of conflict of interest in performance of this Agreement.
13. **Notices.** All notices shall be personally delivered or mailed to the below listed addresses, or to such other addresses as may be designated by written notice. These addresses shall be used for delivery of service of process.

(a) Address of CONSULTANT is as follows:

Orange County Striping Service, Inc.
Attention: Douglas Patterson, President
183 N. Pixley St
Orange, CA 92868

(b) Address of CITY is as follows (with a copy to):

Engineering:	City Attorney
City of Garden Grove	City of Garden Grove
P.O. Box 3070	P.O. Box 3070
Garden Grove, CA 92840	Garden Grove, CA 92840

14. **CONSULTANT'S Proposal.** This Agreement shall include CONSULTANT'S proposal, Exhibit "A" hereto, which shall be incorporated herein. In the event of any inconsistency between the terms of the proposal and this Agreement, this Agreement shall govern.

15. **Licenses, Permits and Fees.** At its sole expense, CONSULTANT shall obtain a **Garden Grove Business License**, all permits and licenses as may be required by this Agreement.
16. **Familiarity With Work.** By executing this Agreement, CONSULTANT warrants that: (1) it has investigated the work to be performed; (2) it has investigated the site of the work and is aware of all conditions there; and (3) it understands the facilities, difficulties and restrictions of the work under this Agreement. Should CONSULTANT discover any latent or unknown conditions materially differing from those inherent in the work or as represented by CITY, it shall immediately inform CITY of this and shall not proceed, except at CONSULTANT'S risk, until written instructions are received from CITY.
17. **Time of Essence.** Time is of the essence in the performance of this Agreement.
18. **Limitations Upon Subcontracting and Assignment.** The experience, knowledge, capability and reputation of CONSULTANT, its principals and employees were a substantial inducement for CITY to enter into this Agreement. CONSULTANT shall not contract with any other entity to perform the services required without written approval of the CITY. This Agreement may not be assigned voluntarily or by operation of law, without the prior written approval of CITY. If CONSULTANT is permitted to subcontract any part of this Agreement, CONSULTANT shall be responsible to CITY for the acts and omissions of its subcontractor as it is for persons directly employed. Nothing contained in this Agreement shall create any contractual relationship between any subcontractor and CITY. All persons engaged in the work will be considered employees of CONSULTANT. CITY will deal directly with and will make all payments to CONSULTANT.
19. **Authority to Execute.** The persons executing this Agreement on behalf of the parties warrant that they are duly authorized to execute this Agreement and that by executing this Agreement, the parties are formally bound.
20. **Indemnification.** To the fullest extent permitted by law, CONSULTANT agrees to protect, defend, and hold harmless CITY and its elective or appointive boards, officers, agents, and employees from any and all claims, liabilities, expenses, or damages of any nature, including attorneys' fees, for injury or death of any person, or damages of any nature, including interference with use of property, arising out of, or in any way connected with the negligence, recklessness and/or intentional wrongful conduct of CONSULTANT, CONSULTANT'S agents, officers, employees, subcontractors, or independent contractors hired by CONSULTANT in the performance of the Agreement. The only exception to CONSULTANT'S responsibility to protect, defend, and hold harmless CITY, is due to the negligence, recklessness and/or wrongful conduct of CITY, or any of its elective or appointive boards, officers, agents, or employees.

This hold harmless agreement shall apply to all liability regardless of whether any insurance policies are applicable. The policy limits do not act as a limitation upon the amount of indemnification to be provided by CONSULTANT.

21. **Modification.** This Agreement constitutes the entire agreement between the parties and supersedes any previous agreements, oral or written. This Agreement may be modified only by subsequent mutual written agreement executed by CITY and CONSULTANT.
22. **Waiver.** All waivers of the provisions of this Agreement must be in writing by the appropriate authorities of the CITY and CONSULTANT.
23. **California Law.** This Agreement shall be construed in accordance with the laws of the State of California. Any action commenced about this Agreement shall be filed in the central branch of the Orange County Superior Court.
24. **Interpretation.** This Agreement shall be interpreted as though prepared by both parties
25. **Preservation of Agreement.** Should any provision of this Agreement be found invalid or unenforceable, the decision shall affect only the provision interpreted, and all remaining provisions shall remain enforceable.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS THEREOF, these parties hereto have caused this Agreement to be executed as of the date set forth opposite the respective signatures.

"CITY"
CITY OF GARDEN GROVE

Dated: _____, 2021

By: _____
City Manager

ATTEST

"CONTRACTOR"
Orange County Striping Service, Inc.

City Clerk

By: _____
Title: _____

Dated: _____, 2021

Dated: _____, 2021

APPROVED AS TO FORM:



Garden Grove City Attorney

Dated: 5-4, 2021

If CONSULTANT/CONTRACTOR is a corporation, a Corporate Resolution and/or Corporate Seal is required. If a partnership, Statement of Partnership must be submitted to CITY

EXHIBIT "A"

Orange County Striping Service, Inc.
183 N. Pixley Street
Orange, CA 92868-2204
TEL: 714-639-4550 FAX: 714-639-6353

CITY OF GARDEN GROVE
11222 ACACIA PARKWAY
PO BOX 3070
GARDEN GROVE CA 92842

We acknowledge that the prices set forth in the Request for Proposal for On-Call Street Striping and Sign Installation for the City of Garden Grove will remain valid for a minimum of 6 months.

Kim Patterson
KIM PATTERSON – PRESIDENT

April 15, 2021
DATE

ATTACHMENT "C"
COST PROPOSAL FORM

**ON-CALL STREET STRIPING AND SIGN INSTALLATION FOR THE CITY OF
GARDEN GROVE**

**THIS FORM MUST BE COMPLETED AS OUTLINED BELOW AND SUBMITTED
WITH THE PROPOSAL**

Item	*Item Description	Unit Measure	Unit Price
1.	4" Broken Lane Line	PER LF	\$.06
2.	4" Solid Lane Line	PER LF	\$.13
3.	4" Double Solid Line with 3" Solid Black Line	PER LF	\$.20
4.	4" Solid Lane Line with 3" Solid Black Line with 4" Broken Lane Line (Continuous left-turn pocket)	PER LF	\$.15
5.	8" Solid White Line	PER LF	\$.17
6.	8" Skip White Line	PER LF	\$.07
7.	6" Solid White Line	PER LF	\$.15
8.	6" Skip Lane Line	PER LF	\$.10
9.	6" Skip White Line	PER LF	\$.10
10.	6" Double Yellow Line	PER LF	\$.26
11.	6" Solid Lane Line	PER LF	\$.15
12.	12" Crosswalk & Limit Bar Lines	PER SF	\$ 1.01
13.	3-foot Yield Line (shark teeth)	PER SF	\$ 1.01
14.	R X R Marking	PER EA	\$ 62.40
15.	Arrow Legend (Type I/IV/VII/VIII)	PER SF	\$ 2.00
16.	8' Letter Legend	PER SF	\$ 1.68
17.	12"-18" Letter Legend	PER EA	\$ 1.15

*Assume paint, unless otherwise noted

Item	*Item Description	Unit Measure	Unit Price
18.	Curb Painting (Red, Green, Yellow, White, Blue or Grey)	PER LF	\$.95
19.	Parking "T"	PER EA	\$ 8.00
20.	4" Parking Lot Line with Layout	PER LF	\$.80
21.	4" Parking Lot Line With No Layout	PER LF	\$.65
22.	Paint Blackout	PER SF	\$.25
23.	International Symbol of Accessibility (ISA) Marking	PER EA	\$ 50.00
24.	Yellow or White Non-reflective Pavement Marker - Ceramic	PER EA	\$ 5.00
25.	Yellow or White Reflectorized markers	PER EA	\$ 6.00
26.	Blue Reflectorized Hydrant Pavement Markers	PER EA	\$ 15.00
27.	Removal of Painted Lines, legends, or symbols by grinding. Square footage of legends shall be determined by using California State Division of Highways calculations for standard pavement stencils. Contractor shall be responsible for cleanup.	PER SF	\$ 3.50
28.	Miscellaneous Sandblasting for Paint Removal. Contractor shall be responsible for cleanup.	PER HR	\$ 545.00
29.	Removal of any raised pavement markers	PER EA	\$ 1.05
30.	"BIKE LANE" w/ arrow legend	PER EA	\$ 47.04
31.	Bike Symbol w/ Arrow Legend	PER EA	\$ 45.45
32.	Shared Lane Marking Legend	PER EA	\$ 38.00
33.	Replace Divots with Hot Melt Bituminous Material	PER EA	\$ 1.25
34.	12" Thermoplastic Bar	PER LF	\$ 2.00
35.	Thermoplastic 4" Broken Lane Line	PER LF	\$.33

*Assume paint, unless otherwise noted

Item	*Item Description	Unit Measure	Unit Price
36.	Thermoplastic 4" Solid Lane Line	PER LF	\$.58
37.	Thermoplastic 4" Double Solid Line with 3" Solid Black Line	PER LF	\$ 1.07
38.	Thermoplastic 4" Solid Lane Line with 3" Solid Black Line with 4" Broken Lane Line (Continuous left-turn pocket)	PER LF	\$.79
39.	Thermoplastic 8" Solid White Line	PER LF	\$ 1.05
40.	Thermoplastic 8" Skip White Line	PER LF	\$.37
41.	Thermoplastic 6" Solid White Line	PER LF	\$.76
42.	Thermoplastic 6" Skip Lane Line	PER LF	\$.32
43.	Thermoplastic 6" Skip White Line	PER LF	\$.39
44.	Thermoplastic 6" Double Yellow Line	PER LF	\$ 1.44
45.	Thermoplastic 6" Solid Lane Line	PER LF	\$.84
46.	Thermoplastic 12" Crosswalk & Limit Bar Lines	PER SF	\$ 2.00
47.	Thermoplastic 3-foot Yield Line (shark teeth)	PER SF	\$ 2.00
48.	Thermoplastic R X R Marking	PER EA	\$ 213.06
49.	Thermoplastic Arrow Legend	PER SF	\$ 2.92
50.	Thermoplastic 8' Letter Legend	PER SF	\$ 3.78
51.	Thermoplastic "BIKE LANE" w/ arrow legend	PER EA	\$ 87.60
52.	Thermoplastic Bike Symbol w/ Arrow Legend	PER EA	\$ 65.75
53.	Thermoplastic Shared Lane Marking Legend	PER EA	\$ 66.85
54.	Layout	PER LF	\$.10
55.	Weeding	PER HR	\$ 180.00

*Assume paint, unless otherwise noted

STREET SIGN INSTALLATION

Item	**Item Description	Unit Measure	Unit Price
1.	Remove or Install Road Signs on existing unistrut post (Sign provided by the City; labor, tools and related to be supplied by the Contractor)	PER EA	\$ 24.00
2.	Remove or replace Road Signs on existing round post/pole or light standard (Sign provided by the City; labor, tools and related to be supplied by the Contractor)	PER EA	\$ 38.25
3.	Core drilling sidewalk for sign post	PER EA	\$ 50.00
4.	Furnish and install 10' unistrut post, sleeve and anchor (Sign provided by City; sign post/anchor/sleeve, labor, tools and related to be supplied by the Contractor)	PER EA	\$ 108.70
5.	Furnish and install 12' unistrut post, sleeve and anchor (Sign provided by City; sign post/anchor/sleeve, labor, tools and related to be supplied by the Contractor)	PER EA	\$ 120.68
6.	Furnish and install 14' unistrut post, sleeve and anchor (Sign provided by City; sign post/anchor/sleeve, labor, tools and related to be supplied by the Contractor)	PER EA	\$ 138.13
7.	Sign, post, anchor and sleeve removal through sidewalk	PER EA	\$ 60.00
8.	Sign, post, anchor and sleeve removal through soil	PER EA	\$ 45.00
9.	Remove or Install a Set of Street Name Signs on existing post (City to supply signs; labor, tools, hardware and related to be supplied by the Contractor)	PER EA	\$ 45.00

**Unistrut post installation is assumed to be on soil, otherwise add line Item 3

Item	**Item Description	Unit Measure	Unit Price
10.	Remove or Install a Set of Street Name Signs on existing light standard (City to supply signs; labor, tools, hardware and related to be supplied by the Contractor)	PER EA	\$ 75.00
11.	Remove or Install a Set of Street Name Signs on existing light standard (Double sided signs, labor, tools, hardware and related to be supplied by the Contractor)	PER EA	\$ 393.88
12.	Remove or Install a Set of Street Name Signs on existing post (Double sided signs, labor, tools, hardware and related to be supplied by the Contractor)	PER EA	\$ 356.00
13.	Relocate existing sign post to new location (labor tools, hardware and related to be supplied by the Contractor)	PER EA	\$ 90.00
14.	Furnish and Install Metal Beam Guardrail (all material, hardware, labor tools and related to be supplied by the Contractor)	PER LF	\$ 75.00
15.	Furnish and Install Type Q (CA) object marker, epoxy glue down version and shall be a vertical tubular marker with a height of 18-inches and minimum cross-sectional dimension of 2.25 inches. Yellow retroreflective material shall consist of three (3) bands, each 3-inch in height and spaced 0.75-inches at the top and between bands	PER EA	\$ 78.35
16.	Paint Median nose, curb face and top with highly reflective premixed white traffic paint with glass beads and install yellow reflective pavement markers on top surface of median curb nose 2-foot center-center spacing (minimum 5 markers)	PER EA	\$ 50.00
17.	Furnish 12" x 18" sign	PER EA	\$ 23.23
18.	Furnish 12" x 24" sign	PER EA	\$ 30.98
19.	Furnish 18" x 24" sign	PER EA	\$ 46.47

**Unistrut post installation is assumed to be on soil, otherwise add line Item 3

Item	**Item Description	Unit Measure	Unit Price
20.	Furnish 24" x 18" sign	PER EA	\$ 46.47
21.	Furnish 24" x 24" sign	PER EA	\$ 61.96
22.	Furnish 24" x 30" sign	PER EA	\$ 77.44
23.	Furnish 24" x 48" sign	PER EA	\$ 123.91
24.	Furnish 30" x 12" sign	PER EA	\$ 38.72
25.	Furnish 30" x 18" sign	PER EA	\$ 58.09
26.	Furnish 30" x 24" sign	PER EA	\$ 77.44
27.	Furnish 30" x 30" sign	PER EA	\$ 96.82
28.	Furnish 30" x 36" sign	PER EA	\$ 116.17
29.	Furnish 30" x 42" sign	PER EA	\$ 135.54
30.	Furnish 36" x 18" sign	PER EA	\$ 69.70
31.	Furnish 36" x 30" sign	PER EA	\$ 116.17
32.	Furnish 36" x 36" sign	PER EA	\$ 139.40
33.	Furnish 36" x 48" sign	PER EA	\$ 185.87
34.	Furnish 36" x 72" sign	PER EA	\$ 278.81
35.	Furnish 48" x 48" sign	PER EA	\$ 247.83
36.	Furnish 48" x 60" sign	PER EA	\$ 309.79

**Unistrut post installation is assumed to be on soil, otherwise add line Item 3

Orange County Striping Service, Inc.
183 N. Pixley Street
Orange, CA 92868-2204
TEL: 714-639-4550 FAX: 714-639-6353

COMPANY OWNERSHIP DESCRIPTION

PRESIDENT – KIM PATTERSON

VICE PRESIDENT – ROBERT PATTERSON

SECRETARY – RON WILCOX

Kim Patterson
KIM PATTERSON – PRESIDENT

April 15, 2021
DATE



CONTRACTORS
STATE LICENSE BOARD
ACTIVE LICENSE



License Number **346095**

Entity **CORP**

Business Name **ORANGE COUNTY STRIPING
SERVICE INC**

Classification(s) **C32 C31**

Expiration Date **03/31/2023**

www.cslb.ca.gov





CA Contractor's License #346095

183 N. PIXLEY STREET • ORANGE • CALIFORNIA 92868 • PHONE (714) 639-4550 • FAX (714) 639-6353 or 639-2608

QUALITY COMMITMENT

For the past 50 years, Orange County Stripping Service, Inc., under the same ownership, has progressed forward and taken great pride in imparting a quality service at a fair price. Over these years O.C.S.S. has often been referred to as "setting the bar" in the industry. We have been constantly committed to not only stay current and up to date with the latest technology in the industry, but at many times been the front runner and innovator. Most of our employees, both field and office, have been with O.C.S.S. for over 30 years which defines the united commitment of a relationship between ownership, management, and field expertise.

On-Time Delivery, Timely Response, Quality of Product and Service, Quality Control, and of course, Customer Satisfaction are all fundamentals that are the absolute backbone and foundation by which O.C.S.S. has built its stature and reputation. It is our daily goal to build relationships with our customers, not simply to, "just find work", in a cut-throat era within a heavily saturated industry. O.C.S.S. believes that relationships are the imperative infrastructure of a successful business. As Operations Manager, I have had the opportunity to build the confidence and trust of our numerous cities' maintenance contract personnel. I have a constant open communication with these individuals and have greatly enhanced the productivity rate and quality control over recent years.

On a consistent basis over the last decade, the cities of Newport Beach, Santa Ana, Anaheim, Manhattan Beach, Garden Grove as well as many others have put their trust in O.C.S.S. and built such relationships based on these practices.

O.C.S.S. looks forward to continuing this relationship with the City of Garden Grove.

Respectfully,

Ron Wilcox – Secretary, General Manager, Estimator



CA Contractor's License #346095

183 N. PIXLEY STREET • ORANGE • CALIFORNIA 92868 • PHONE (714) 639-4560 • FAX (714) 639-6353 or 639-2608

Scopes and Descriptions of Work

In most cases and with most cities, the city employee that is put in charge of coordinating the various tasks for the striping company will contact me directly via phone call or email. I have followed the habit of preferring all instruction be via email. This has proven time and again to be of great benefit as it eliminates the "HE SAID, SHE SAID" scenario. The city representative will issue the order or groups of orders and I will proceed to categorize them into separate crew types. Striping & Markers, Markings, Signs, Curb Markings, and Removals. From there the individual orders are put in a Work Order form that is clarified for instruction to my field employee's. Materials are verified and ordered if necessary, and then the work orders are put on to the schedule, based on individual task criteria and availability, lead-time for materials, as well as urgency, which is usually deemed by the city employee. The following is a break-down for each of our individual scopes and crew involvements.

1. Road Striping, which is the installation or re-striping of existing lining is always a 3-man crew for us as our striping trucks are a 2-man operation. The 3rd man is utilized for putting traffic cones on the striping to delineate the vehicles on the road from the wet lines, while they set up or dry. The driver, usually the Lead-Man, drives the truck and keeps it on the line by following a pointer that hydraulically drops down or is lifted up in front of the cab. The Operator sits on top of the truck bed along with all the paint tanks, bead tanks (PLEASE REFER TO THE PAVEMENT MARKINGS PORTION FOR THE DESCRIPTION OF "BEADS"), compressor, hydraulic motors and paint pumps. The operator overlooks the carriage that holds all the striping guns and bead guns.

The carriage moves in and out from the side of the truck and is controlled by the operator with an actual steering wheel. The operator also controls the switches that control all the guns. For the most-part, the entire operation is manual although the timing of the paint installation can be automatically triggered to ensure the appropriate line and gap length are installed. The speed at which the driver maintains, determines the thickness of paint applied which is 15 mils. The paint is sprayed by airless pumps which un-like the old atomization process produces a crisp and sharp line.

2. Pavement Marker installation is a process by which the same 3-man crew glues down the Reflective Pavement Markers by using a hot melted bituminous material much like tar. The bituminous is drawn from a tank that is heated by a furnace on the bottom of the tank. The material is heated to a temperature of 350 degrees and becomes hard when it cools within seconds. The cart is moved to each location the marker is to be installed. The cart operator opens the valve and drops the hot bituminous material onto the ground surface, in roughly a 4" diameter. The other man puts the marker on top of the hot bituminous and pushes it down into the material to seal off all edges with bituminous. It is very important to seal all the edges of the marker as they are filled on the bottom with a compound that breaks down if introduced to moisture over a repeated period of time. The third man keeps watch over traffic and manipulates the Traffic Control.
3. Pavement Markings, are defined as the legends on the road such as "STOP", "SIGNAL AHEAD", "ARROWS", "BIKE LANE", etc. Pavement Markings also include 12" solid longitudinal lines such as "CROSSWALKS", "LIMIT BARS", and "CHEVRONS" or "DIAGONAL HASH LINES". Our Pavement Markings crew consists of a 2-man crew in most cases but sometimes 1 man and sometime 3 men depending on the traffic situation or need. Pavement Markings are painted using a letter or number stencil or group of stencils to spell out a word. The stencils are laid down over the existing letters or lined up accordingly in new work situations. The sprayer, usually the Lead-Man sprays the paint over the stencil in a very precise method while the other crew man throws reflective media known as beads, on top of the paint.

Beads are very small glass spheres that when applied to wet paint, wick the paint up around them, exposing only the top of the bead. The light from a vehicle's head lights or the ambient light around the area is picked up through the un-painted portion of the bead and reflected back out the top, reflecting the paint that surrounds and seals it on the ground, therefore making it visible at night. Were it not for "BEADS", paint on the ground at night would be as invisible as a person dressed in dark clothing, at night. After the paint & beads are applied, the crew picks up the stencils and loads them back onto the truck, leaving behind the freshly painted area, delineated off with Traffic Cones to be picked up at a later time when the paint is dry. The crew then proceeds to the next location and starts the process over again.

4. Our Sign Crew consists of 2-men or 1-man, depending on the need. The Sign Man drives to each location with a Sign Truck that is stocked with all the various types of hardware, posts, and tooling that is needed to install and remove the signing task. Each location can be very different or the same, depending on the order. The sign man locates the defined location for the order and for example the installation of a new sign and post w/ anchor and sleeve, acquires the machinery from the truck and drives the anchor into the ground. The post is installed inside the anchor assembly and the sign is installed at the top or in the correct height, of the post. Most all our sign work is installed on Telspar / Unistrut post and is connected with steel rivets. Where there are existing conditions, the old signs are removed, and new signs are re-installed. Where there is an existing Light Standard or pole to be utilized, the signs are installed on brackets that are banded onto the pole using a stainless steel band strip. Much of the work performed by the sign crew is done on a ladder or from the top racks or platforms mounted on the Sign Truck. We do not typically do any work above 16' which would require a Bucket-Truck which enters the Electrical Contractor scope.
5. Curb Markings can be either a one or two-man crew. Our curb marking truck, also used as our Parking-Lot Striping Truck, carries many different airless machines, paints and stencils. The curb marking Lead-Man travels from location to location installing or re-painting the curb areas

designated. The paints used are different than those used on the road surface as most all curbs are concrete, and vertical. In areas where existing cars may be present or actually in the immediate area where the curb is to be painted, our men will roll the paint on instead of spraying with a high pressure airless machine to avoid any contact with the vehicle. Reflective beads are not used for curb markings as they are not necessary and can be very distracting when hi-lighted to the vehicular traffic. In the event of shrubbery or the presents of weeds, our men will weed whack the existing area & sweep clean prior to painting.

6. Our Removals Crews are some of the best in the industry, as stated by many Inspectors, Engineers, and Public Works Superintendent's from many different entities. We use the term Micro-Grinding as we don't just go in and grind away the existing conflicting which can very quickly damage and alter the surface of the road, not to mention begin or further the decomposition process. We utilize walk-behind grinders that are designed to remove a marginal amount at a time to ensure that we only remove as much as we want to with each pass. Sandblasters are readily becoming a thing of the past as more and more cities are adopting the grinding method although, few striping companies seem to produce the results that we do. We have been using these types of grinders for as long as I have been here and that is more than 35 years.
7. Thermoplastic Striping and Markings are performed by handcart much like the bituminous cart as the thermoplastic is a hot-melt material that is applied at around 400 degrees. The material is applied through what is called a shoe which rides on the ground. There are different shoes that are used, as they determine the width of the line. As different lines or markings are installed, the corresponding shoe has to be installed and heated up prior to installation. There is an adjustment at the bottom of the shoe which determines the thickness of the thermoplastic line. Beads are dropped on to the molten thermoplastic a couple of inches behind the shoe and adhere to the top surface of the thermoplastic the same way as the paint. Thermoplastic cures within 30 to 45 seconds depending on the ambient temperature of the asphalt or concrete. When thermoplastic is applied to less than new asphalt or always on

concrete, a primer is used to ensure the bond between the surface & the thermoplastic.


8. Traffic Control is a major part of all our operations. The art of moving traffic around the areas we are working in both safely and effortlessly to ensure the utmost safety to all vehicles or pedestrians around us as well as ourselves, is of our highest priority. We have always had a great reputation for safety and prudence while working on the streets no matter what city we are working in. Our over 40 plus years of impeccable service speaks for itself.

Respectfully,

Ron Wilcox

Operations Manager

Orange County Striping Service

A handwritten signature in black ink, consisting of a large, stylized 'R' followed by a loop and a long vertical stroke.



CA Contractor's License #346095

183 N. PIXLEY STREET • ORANGE • CALIFORNIA 92868 • PHONE (714) 639-4550 • FAX (714) 639-6353 or 639-2608

PROJECT APPROACH / METHODOLOGY

Orange County Stripping Service Inc. possesses the newest technology and state of the art equipment. Our personnel are trained Union representatives with the utmost professionalism.

Ron Wilcox will be your point of contact for any scheduling. Please provide at least 24 hours' and in most cases, he can have a crew out on your project by the following day.

Orange County Stripping Service prides itself in the ability to be easily accessible for contact and availability.

LIST OF EQUIPMENT

- 2 - PAINT ROAD LINER
- 2 - PAINT STENCIL TRUCK
- 4 - THERMOPLASTIC HAND-CART APPLICATOR
- 1 - THERMOPLASTIC LEGEND TRUCK
- 1 - SIGN TRUCK
- 2 - BITUMIOUS MARKER APPLICATOR
- 5 - AIRLESS HAND MACHINE
- 1 - SCHEBICI POLYPLANER STRIPING AND MARKING REMOVER
- 1 - SANDBLASTING TRUCK
- 5 - MICRO-GRIND HAND MACHINES
- 2 - FLATBED TRUCK
- 1 - PARKING-LOT / CURB MARKING TRUCK

Orange County Striping Service, Inc.
183 N. Pixley Street
Orange, CA 92868-2204
TEL: 714-639-4550 FAX: 714-639-6353

EXPERIENCE REFERENCES

AGENCY: CITY OF BREA
PROJECT DESCRIPTION: CITY RE-STRIPE CONTRACT
APPROXIMATE CONSTRUCTION DATES: 5/1/2019-2/28/2022
CONTACT PERSON: WILL WENZ
TELEPHONE: 714-990-7695

AGENCY: CITY OF SAN JAUN CAPISTRANO
PROJECT DESCRIPTION: STREET PAVEMENT MARKINGS
APPROXIMATE CONSTRUCTION DATES: 6/1/2019-6/30/2022
CONTACT PERSON: ROD HAMILTON
TELEPHONE: 949-943-8095

AGENCY: CITY OF LAGUNA BEACH
PROJECT DESCRIPTION: CITY STRIPING & CURB PAINTING
APPROXIMATE CONSTRUCTION DATES: 7/1/2017-9/30/2020
CONTACT PERSON: TODD HENRY
TELEPHONE: 949-497-0349

AGENCY: CITY OF SANTA ANA
PROJECT DESCRIPTION: ROADWAY MARKINGS & STRIPING
APPROXIMATE CONSTRUCTION DATES: 8/1/2018-7/31/2021
CONTACT PERSON: KIM MCPECK
TELEPHONE: 714-647-5462

AGENCY: MCE CORPORATION
PROJECT DESCRIPTION: CTYWIDE RE-STRIPE
APPROXIMATE CONSTRUCTION DATES: 7/1/2019-6/30/2021
CONTACT PERSON: STEVE LOWEREE
TELEPHONE: 925-452-2716

Orange County Striping Service, Inc.
183 N. Pixley Street
Orange, CA 92868-2204
TEL: 714-639-4550 FAX: 714-639-6353

Please see the attached resumes of key personnel that will be working for the City of Garden Grove on the Striping and Sign Installation project. As you will see from the attached resumes most of our staff has been with us for years. Our manager, Ron Wilcox, has been with Orange County Striping for 28 years. Our lead sign installer, Chris Morrow, has been the company for 37 years. Our lead foreman, Todd Goerlinger has been with company for 26 years. Years of experience and expertise from our dedicated employees is what make Orange County Striping so successful on our projects.

Ron Wilcox

183 N. Pixley St. Orange, CA 92868 / C: 562-713-0904 / ron@pcstriping.com

SUMMARY

Accomplished General Manager skilled in achieving operational efficiency and increasing job profitability. Business process improvement, data analysis, and asset management expert. Employs root cause analysis to identify job loss issues and develop process improvements that lead to cost savings. Exceptional coordinating and implementation capabilities.

HIGHLIGHTS

- **Business process improvements**
- **Forecasting and planning**
- **23 years of field experience**
- **Project management**
- **Budgeting**

Experience

11/2015 to Present

Project Manager

Orange County Striping Service, Inc. Orange, CA

- **Coordinate and manage construction projects large and small**
- **Maintain constant communication with all Prime contractors, General contractors and Sub contractors**
- **Maintain hour goals set forth to minimize job loss and increase job profits**
- **Identify job related hazards and implement new and improved processes and policies**
- **Recruit / hire personnel to assist in job related tasks**

04/1993 to 11/2015

Field Representative / Laborer

- **Group 3 Journeyman skilled in all aspects of Highway / Roadway Striping projects**
- **Thermoplastic striping and removal specialist**
- **Roadway Sign installation / removal**
- **Highway / Roadway markings and legend installation**
- **Cat-track / Layout specialist**

Chris Morrow

13471 Anawood Way Westminster, CA 92683 / C: 714-747-3415

HIGHLIGHTS:

- **Expert in sign installation and guardrail install.**
- **Great customer service and communication.**
- **Extremely knowledgeable at reading plans and leading a team.**

EXPERIENCE:

- 02/01/1984 to Present Field Representative / Laborer**
Orange County Striping Service, Inc. Orange, CA
- **Sign Installation.**
 - **Guardrail Installation.**
 - **Wood Barricades.**
 - **Curbs, Stencils and Removals.**
 - **Traffic Control.**
 - **Stencils**

PREVIOUS EMPLOYMENT:

- **City of Huntington Beach in 1982.**

Todd Goerlinger

4925 East Leeds Avenue Orange, CA 92867 / C: 714-925-3795

Email: tgthirteen@icloud.com

HIGHLIGHTS:

- **Communication with my team.**
- **Productivity and quality of work.**
- **Willingness to go beyond and do more than required.**
- **Strong work ethic.**
- **Customers and fellow employees can always count on me.**

EXPERIENCE:

07/19/1995 to Present

Field Representative / Laborer

Orange County Striping Service, Inc. Orange, CA

- **Foreman for both large and small projects.**
- **Removals.**
- **Sign Installation.**
- **All striping – paint, thermo, parking lots and MMA.**
- **Lay-out on projects.**
- **Stencils**

Nathan Vick

203 Portland Avenue Huntington Beach, CA 92648 / C: 951-489-9054

Email: *nathanvick_92@yahoo.com*

HIGHLIGHTS:

- Complete capability to setup safe traffic control aligned with standards and guidance of the CA-MUTCD handbook.
- Superb communication skills and ability to de-escalate tensions with impatient citizens in controlled work zones.
- Knowledge and expertise finding conflicting measurements with Civil Engineer plans and preparedness to find a solution on the job.
- Personal range of skill sets that permit me to restripe current and fading markings without having a mirror illusion.
- Mathematical abilities allowing quick and easy layout ready for inspection approval.

EXPERIENCE:

10/15/2013 to Present Field Representative / Laborer

Orange County Striping Service, Inc. Orange, CA

- Vehicle and equipment check to ensure complete safety and job completion capability.
- Training new employees under the established OCSS work culture that quality of work comes first.
- Installing detailed striping according to Caltrans specifications.
- Removing striping that is conflicting as specified by Civil Engineering plans.
- Performing maintenance to cities road striping that has progressively deteriorated.
- Eliminate, position or relocate city signs.
- Paint parking lots in accordance with ADA compliance and no parking red curb zones.
- Accurately log paperwork for OCCSS to properly do internal office duties.

Emilio Robles

13629 Lemoli Avenue Hawthorne, CA 90250 / C: 909-241-5067

Email: emiliorobles644@yahoo.com

HIGHLIGHTS:

- **Stencil Crew Foreman**
- **Removal Crew Foreman**
- **Schibeci Operator**
- **Sandblasting Rig Operator**

EXPERIENCE:

- 03/12/2007 to Present Field Representative / Laborer**
Orange County Striping Service, Inc. Orange, CA
- **Prepping my crew for the day.**
 - **Overseeing the safety of my field crew.**
 - **Keeping the work area clean and organized.**
 - **Filling out work reports.**
 - **Onsite contact for our customers.**

PREVIOUS EMPLOYMENT:

- **Western Sandblasting for 9 years.**
- **Abrasive blasting for 6 months.**
- **Tri County Sandblasting for 2 months.**

Jose Mendoza

22708 Via Castilla Lake Forest CA, CA 92630 / C: 714-316-3602

Email: Jmanuelmendoza75@gmail.com

HIGHLIGHTS:

- **Efficiency and productivity on the job site.**
- **Following safety procedures.**
- **Working well with my co-workers.**
- **Highly organized.**

EXPERIENCE:

- 05/01/2017 to Present Field Representative / Laborer**
Orange County Striping Service, Inc. Orange, CA
- **Installing Guardrail**
 - **Installing Markers**
 - **Installing Signs**
 - **Traffic Control**
 - **Painting Curbs**
 - **Painting Stencils**

PREVIOUS EMPLOYMENT:

- **BC Traffic 10/2014-03/2017**
- **Clean Rooms West 02/2008-08/2014**
- **Traffic Operations 03/2005-02-2008**

Brittany Patterson
19961 Daniel Lane
Orange CA 92869
(714) 814-2066
Email:estimating@ocstriping.com

WORK EXPERIENCE:

**May 2010-Present Orange County Striping Services Incorporated
Collections & Billing Manager**

- Work closely with subcontractors to collect monthly progress billings.
- Prepare preliminary notices and lien waivers.
- File Stop Notices, Claims and Liens when necessary.
- Contract Administrator.
- Preparing and adjusting billing invoices.
- Estimating Assistant.
- Assist in phone reception.

EDUCATION:

**Completed 124 of 180 credits toward BS in Hospitality Management,
California State Polytechnic University 2003-2005.
AA Degree, Rancho Santiago Community College 2003**

**SKILLS & CERTIFICATIONS: Quickbooks, Microsoft Word,
Microsoft Excel, Microsoft Outlook and Certified Notary.**

EXHIBIT "B"

March 25, 2021

Orange County Striping Service, Inc.
183 North Pixley
Orange, CA 92868

Steven R. Jones
Mayor

Stephanie Klopfenstein
Mayor Pro Tem - District 5

George S. Brietigam
Council Member - District 1

John R. O'Neill
Council Member - District 2

Thu-Ha Nguyen
Council Member - District 3

Patrick Phat Bui
Council Member - District 4

Kim Bernice Nguyen
Council Member - District 6

**SUBJECT: REQUEST FOR PROPOSAL FOR ON-CALL STREET STRIPING AND
SIGN INSTALLATION FOR THE CITY OF GARDEN GROVE**

Dear Orange County Striping,

The City of Garden Grove is seeking to establish a contract with a firm to provide signing and striping services with a varying workload on an on-call basis.

Description

The signing and striping firm shall provide a qualified individual(s) to perform signing and striping services as outlined in the Scope of Services below.

The workload varies over time, so there may be periods where there is little or no work. Given the budget challenges that most governmental agencies are experiencing, the ideal consultant would be flexible to cover the changing workload and minimizing the impact to the City's budget.

It is anticipated that the contract will be established in the not to exceed amount of \$196,000 per year for 3 years and 2 additional 1 year options. A copy of the signing and striping Agreement and the various insurance endorsement forms that will be required of the successful signing and striping firm are attached for your consideration and review.

Scope of Services to be Provided

A. Specifications

The work embraced herein shall be done in accordance with the most recent edition of the following:

1. Standard Specifications of the State of California, Department of Transportation (hereinafter called Standard Specifications), and all Article and Section references shall refer to said Standard Specifications unless otherwise noted

Orange County Striping Service, Inc.
REQUEST FOR PROPOSAL FOR SIGNING AND STRIPING SERVICES
Page 2 of 12

2. Standard Specifications for Public Works Construction (Greenbook)
3. Manual of Uniform Traffic Control Devices (MUTCD), as amended for use in California
4. County of Orange Standard Plans and Specifications
5. Garden Grove Standard Plans and Specifications

The signing and striping firm shall provide, install and maintain all necessary signs, lights, flares, barricades, arrow boards, flagmen, and other facilities for directing the movement of traffic through the work. Full compensation for conforming to these provisions shall be considered as included in the price paid for the various contract items of work and no additional payment shall be made thereafter.

B. Description of Work

This work shall consist of supplying all labor, methods or processes, implements, tools, machinery, equipment and materials to paint and to repaint street traffic stripes, pavement markings and devices; including preliminary preparation, protection of new work, and other related work not specifically mentioned herein, as directed by the Public Works Director to provide a completed project.

1. The kind of material, paint or pavement markers, to be applied will be designated in the contract item, specified in the special provisions, or shown on the plans.
2. For the purposes of this contract "Traffic Striping and Pavement Markings," traffic stripes (traffic lines) are defined as longitudinal centerlines and lane lines which separate traffic lanes in the same or opposing direction of travel, and longitudinal edge lines which mark the edge of the traveled way or the edge of the lanes at gore areas separating traffic at exit and entrance ramps. Pavements markings are defined as transverse markings which include, but are not limited to, word and symbol markings, limit lines (stop lines), crosswalk lines, shoulder markings, parking stall markings, and railroad grade crossing markings.

C. CONSTRUCTION DETAILS

1. Control of Alignment and Layout

All work necessary to establish satisfactory lines for stripes and all layout work required for pavement markings shall be performed by the

Contractor. Lines shall be established by the application of cat tracks or dribble lines.

Cat tracking shall consist of stretching a rope on a straight line between control points on tangent alignment and on a true arc through control points on curved alignment and placing spots of paint along the rope. The spots shall be not more than 3 inches in width and not more than 5 feet apart on curves nor more than 10 feet apart on tangents.

Dribble method may be used only when designated by the City. Dribble lines shall consist of marking the pavement with a thin line of paint using a striping machine or other suitable device. Dribble lines shall be on a straight line between control points on tangent alignment and on a true arc through control points on curved alignment.

Paint for cat tracks and dribble lines shall be the same color as the traffic stripe for which they are placed.

2. Tolerances and Appearances

The Contractor shall perform all layout, alignment and spotting.

Traffic stripes and pavement markings shall conform to the dimensions and details in accordance with the MUTCD and Standard Specifications.

Completed traffic stripes shall have clean and well-defined edges without running or deformation, shall be uniform, shall be straight on tangent alignment, and shall be on a true arc on curved alignment. The widths of completed traffic stripes shall not deviate more than 1/4 inch on tangent nor more than 1/2 inch on curves from the widths shown on the plans. Broken traffic stripes shall also conform to the following requirements:

The lengths of the gaps and individual stripes that form broken traffic stripes shall not deviate more than 2 inches from the lengths shown on the plans.

The Contractor shall be responsible for the completeness and accuracy of all layout alignment and spotting. Traffic striping shall not vary more than 1/2 inch in 50 feet from the alignment shown on the plans.

The lengths of the gaps and individual stripes shall be of such uniformity throughout the entire length of each broken traffic stripe that a normal striping machine will be able to repeat the pattern and superimpose additional stripes upon the traffic stripe being applied.

The completed pavement markings shall have clean and well-defined edges without running or deformation and shall conform to the dimensions shown on the plans, except that minor variations may be accepted by the City.

Drips, overspray, improper markings, and paint material tracked by traffic shall be immediately removed from the pavement surface by methods approved by the City. Ragged ends of segments, fogginess along the sides or objectionable dribbling along the unpainted portions of the stripe shall be removed to the satisfaction of the City. When curbing painting the Contractor shall take every effort to avoid getting paint on the sidewalk or in the gutter. All such removal for striping and curbing painting work shall be at the Contractor's expense.

The finished product shall have an opaque, well painted appearance with no black or other discoloration showing through.

Existing lines shall be followed in such a manner as to present a uniform, pleasing appearance, and misalignment or disregard to previous painting will not be permitted. Abrupt breaks in alignment between broken segments will not be permitted.

The Public Works Director, or his designee, shall inspect completed lines and shall inform the Contractor of any faulty methods or unsatisfactory results. Lines considered unsatisfactory shall be repainted and reflectorized at the Contractor's expense and the Public Works Director, or his designee, shall be the sole judge as to the acceptability of the completed line.

3. Paint Spills, Defective Workmanship and Environmental Compliance

The Contractor will have ten (10) working days to clean up or correct any unsatisfactory work. Removal of paint shall be done by water blasting or wet sandblasting. Removal of thermoplastic shall be done by grinding. After sandblasting and grinding, area will be cleaned. The City shall after ten (10) working days retain the right to either call in another Contractor or to perform the work with City forces; and to bill the Contractor time and material charges plus 30 percent for overhead or contract cost plus 15 percent for overhead.

Contractor is also responsible to be NPDES compliant. Contractor is to clean up all materials and spills, and implement Best Management Practices to keep all materials out of the storm drain system, including excess glass beads.

Protection from Damage:

The contractor shall take special care to protect existing reflective pavement markers and shall, at his expense, replace all coated markers.

Newly placed traffic stripes and pavement markings shall be protected from damage by public traffic or other causes until the paint is thoroughly dry. Stripes or markings that are damaged prior to drying shall be repainted at the Contractor's expense.

4. Application Rate and Requirements

Application: Paint and beads shall meet or exceed established industry guidelines as outlined in the Greenbook and the Standard Specifications.

The Contractor shall take all reasonable precautions to protect the paint during drying time and shall be required to paint out all objectionable tracking or water damage at his expense.

Traffic stripes and pavement markings shall be applied only on dry surfaces and only during periods of favorable weather. Painting shall not be performed when the atmospheric temperature is below 50 F; when the relative humidity exceeds 75 percent at the site of work; when freshly painted surfaces may become damaged by rain, fog, water, or condensation; nor when it can be anticipated that the atmospheric temperature will drop below said 50 F. temperatures during the drying period.

No work shall be done when weather conditions restrict visibility to less than one mile or when designated by the City. Water containment/diversion if required, will be done by the Contractor at his expense.

Night work is *not permitted* in residential areas of the city.

Surfaces which are to receive traffic stripes and pavement markings shall be dry and cleaned of all dirt and loose material.

Paint, mixing rates, glass bead application and general application equipment shall be in accordance with the Greenbook and other established practices.

Paint shall be applied in two (2) equal thicknesses totaling the minimum required wet film thickness indicated in the Greenbook and other established practices. A minimum period of 14 days shall be allowed between the two applications of striping, or as directed by the City.

5. Materials

Waterborne Paint: The paint to be used on all work done under this contract shall be the following, or equivalent, as approved in writing by the City. All products used must be on the State of California, Department of Transportation Qualified Products List (QPL). Paint for traffic striping shall be either rapid dry white conforming to State Specifications 8010-81D-04, or rapid dry yellow conforming to State Specifications 8010-81D-05, in accordance with the color stipulated on the plans or as directed by the City.

Thinner shall not be mixed with paint. Paint shall dry "track free" within five (5) minutes. All pigment shall be lead free.

Beads used for reflectorized lines shall conform to the following:

American Association of State Highway and Transportation Officials (AASHTO) Standard Specification for Glass Beads Used in Traffic Paint. AASHTO Designation M 247-81 with AC 110 adhesion coating.

Stencils: Contractor shall provide all stencils and street marking legend cutouts, all of which conform to standards presently in use in the City of Garden Grove for the restriping of all existing pavements legends. For all new work, where new legends are required, the Contractor shall use the most recent edition of the California MUTCD.

Thermoplastic Paint: Thermoplastic material shall conform to State Specification PTH-025SPRAY, PTH-02HYDRO or PTH-02ALKYD as specified in the Special Provisions.

Glass beads conforming to 214-3 shall be added directly to the combined pigment, filler, and resin. Thermoplastic material shall contain at least 20 percent by weight of glass beads in the white and yellow paints and at least 12 percent titanium dioxide in the white.

Thermoplastic material shall be applied in a molten state by mechanical means. Prior to setting, an additional application of glass shall be mechanically applied to the surface of the molten thermoplastic material in conformance with 314-4.4.4. Thermoplastic material, when applied at a temperature range of 400°F to 425°F (200°C to 220°C) and a thickness of 90 to 125 mils (2300 to 3200µm) for traffic striping, shall set to bear traffic in 2 minutes or less when the atmospheric temperature is 50°F (10°C) or greater and not more than 10 minutes when the air atmospheric temperature is 90°F (32°C) or greater.

Orange County Striping Service, Inc.
REQUEST FOR PROPOSAL FOR SIGNING AND STRIPING SERVICES
Page 7 of 12

Thermoplastic material shall dry to "no traffic pick-up" in accordance with ASTM D711.

6. Pavement Markers

This work shall consist of furnishing and placing pavement markers at the locations shown on the plans or where directed by the Public Works Director. Pavement markers shall be in accordance with Section 312-1 of the Standard Specifications for Public Works Construction (Greenbook), or shall be of type, color, shape, dimensions and tolerances shown on the plans or work orders. Markers shall be installed with hot melt bituminous material in accordance with Section 312-1 of the Greenbook.

The Contractor shall provide the City with a Certificate of Compliance.

Measurement: The quantity of reflective and non-reflective pavement markers will be measured as units determined from actual count in place.

Payment: The contract unit prices paid for reflective and non-reflective pavement markers shall include full compensation for furnishing all labor, materials, tools, equipment, and incidents, and for doing all the work involved in furnishing and placing pavement markers, complete in place, including adhesives, as shown on the plans, as specified in these specifications and the special provisions, and as directed by the City.

7. Pavement Delineation and Pavement Marking Removal

Traffic stripes and pavement markings shall be removed to the fullest extent possible from the pavement by any method that does not materially damage the surface or texture of the pavement and is approved by the City. The entire pavement's surface within the area of the legend shall be removed. Sand and other material deposited on the pavement as a result of removing traffic stripes and markings shall be removed as the work progresses. Accumulations of sand or other material which might interfere with drainage or might constitute a hazard to traffic will not be permitted.

The Contractor will provide everything necessary to remove, by a method approved by the City, painted lines, symbols, or legends as may be required, including traffic control and cleanup.

8. Sweeper

The Contractor shall furnish a power sweeper with operator to clean immediately after and wet sandblasting for paint removal. The sweeper shall have a steel gutter broom, a rear plastic broom, and three (3) yard minimum capacity hopper. Said sweeper shall conform to Southern California Air Quality Management District (SCAQMD) Rule 1186, Alternate Fuel.

D. WORK OPERATIONS AND BILLING

1. Scope

In general, routine striping refreshing will be assigned on as needed basis, based on the needs of the City. Engineering work orders for new striping or modifications to existing striping will be randomly issued and will have specific completion dates. In addition, there will normally be one sealing project per year.

2. Time of Completion

The Contractor will be called upon from time to time by the City to paint certain specific locations. Upon notification that certain work is ready to be undertaken, the Contractor, in an expedient manner, shall enter upon the site to accomplish the required painting. Painting will commence upon demand throughout the City and within three (3) working days of notice to proceed, together with any necessary directions or maps required by the Contractor. The Contractor shall comply to "complete by" dates that are assigned by the City to each work order. In the case of striping newly sealed or newly paved streets, the Contractor shall "cat track" within twenty-four (24) hours, install raised pavement markers within fourteen (14) days, and paint required legends within three (3) working days. The City of Garden Grove reserves the right to designate the amount and location of work to be done under these specifications.

3. Traffic Control: Traffic shall be permitted to pass through the work underway at all times, under the specific control of the Contractor.

Lane closures on arterial streets shall be planned and scheduled to minimize interference with traffic. No work shall encroach into a moving lane of traffic between the hours of 7-9 AM or 3:30-6 PM unless authorized. Lane closures on arterials shall conform to, and be placed in accordance with the current MUTCD and the latest updated version of the "Work Area Traffic Control Handbook" (WATCH).

Each vehicle used to place and remove components of a traffic control system on multi-lane highways shall be equipped with a Type II flashing arrow sign which shall be in operation when the vehicle is being used for placing or removing said components. The sign shall be controllable by the operator of the vehicle while the vehicle is in motion.

4. Billing and Payment

Measurement: Painting traffic stripes will be measured by the linear foot along the line of the traffic stripes, without deductions for gaps in broken traffic stripes. A double traffic stripe, consisting of two 4-inch wide yellow stripes separated by a 3-inch wide black stripe, will be measured as one traffic stripe.

Payment: Lineal feet of painted lines shall be measured for payment by standardized odometer or distance measuring instrument. Areas not painted (e.g., intersections) will not be included in the measurement. Other units for which payment is to be made shall be measured in accordance with the units designated in the request for bids.

The unit prices for the various units of work, as provided heretofore, shall be considered as full compensation for furnishing all tools, equipment, materials, and labor for doing the work as herein specified and no additional payment will be made therefor.

Currently the City issues a computer printout or work order for striping work to be completed. The Contractor will return completed portions of the computer printout and/or work orders with an invoice for each completed billing period. If a billing method other than the aforementioned is used, an itemized list of the completed work showing map number, location, category, quantity and completion date exactly corresponding to that same item on the issued work order will be required. The Contractor shall complete the requested work within the time period designated by the City and submit written billing within thirty (30) days of completion. The written billing shall be not less than two (2) copies.

Annual striping requirements, engineering requests, miscellaneous work, and sealing projects will be invoiced separately.

Orange County Striping Service, Inc.
REQUEST FOR PROPOSAL FOR SIGNING AND STRIPING SERVICES
Page 10 of 12

E. SIGNS

DESCRIPTION OF WORK:

1. Installation/replacement of all signs shall conform to the MUTCD and City Standards unless otherwise indicated.
2. Type of sign and materials to be replaced or installed and extent of work to be done shall be determined by a written work order. All signs not provided by the City must be HIP and have 3M 1160 anti-graffiti sheeting (or equivalent) applied to the front side/face of the sign. If the sign is two faced, graffiti sheeting shall be applied to both sides.
3. Backfill material for metal posts shall consist of Class C Portland Cement Concrete. Any spalling or chipping of concrete structures shall be repaired by the Contractor at his expense.
4. When called for, contractor shall install new 2"x2"x12' 14 gauge perforated square channel post and related anchor, unless otherwise directed.

F. ADDITIONAL WORK

1. From time to time, contractor may be asked to perform additional work such as pedestrian rail installation and guardrail installation. Contractor is to provide a quote for the work to be done.
2. City may seek bids from outside companies if the price is deemed high or non-competitive.

Proposal Organization and Contents

The proposal may be organized in any manner the signing and striping firm wishes. Include the name and location of the designated project manager and an organization chart showing the names of the key personnel to be on assignment. The project manager, or his authorized representative, shall be available to the City throughout the duration of the contract.

To be considered responsive to this request, the following information shall be included in the proposal:

- Signing and striping firms understanding of the City's needs and approach to meeting those needs.
- Scope of Work listing tasks, descriptions, methods, techniques and exceptions.
- Description of how work will be performed
- Completed Cost Proposal Form (Attachment "C").
- Company ownership description
- Project organization and staffing with resumes and relevant experience including three recent references on similar assignments.
- References with current contact information

The proposal shall be signed by an individual authorized to bind the submitting firm and should include a statement indicating the proposal is valid for a minimum of 6 months. Full consideration will be given to each proposal received by the City in determining proposal acceptance.

Requirements

A sample copy of the City's standard consultant agreement, including insurance requirements, compliance issues, disclosure, notifications and other relevant material, are attached for your review and information.

Four copies of the proposal must be received by the City of Garden Grove, Public Works Department, no later than 4 PM on Thursday, April 15, 2021. Proposals may be delivered by courier or mail and addressed to the City of Garden Grove, Attention Dai Vu, City Traffic Engineer, 11222 Acacia Parkway, Garden Grove, CA 92842. No faxes or emails of proposals will be accepted.

Orange County Striping Service, Inc.
REQUEST FOR PROPOSAL FOR SIGNING AND STRIPING SERVICES
Page 12 of 12

Any questions regarding this Request for Proposal should be directed to Juan Navarro at (714) 741-5186.

Selection of the Signing and Striping Firm

A panel will review and rate the firm's proposal. The top rated firm as determined by the staff review of the proposals will be selected for award. There will not be a pre-proposal meeting. Firm selection will be based upon the following criteria:

1. Ability of the firm's key personnel to perform the specific tasks as outlined in the Request for Proposal (RFP).
2. The specific approach to meeting the City's needs with proposed methods and techniques.
3. Qualifications, certificates and experience of the firm and the specific individuals who will perform the work.
4. References: The firm's past record of performance on similar contracts.

General Information

The City of Garden Grove reserves the right to reject any or all submitted proposals, and no representation is made hereby that any contract will be awarded pursuant to this RFP, or otherwise. All costs incurred in the preparation of the proposal, in the submission of additional information, and/or in any other aspect of a proposal prior to the award of a written contract shall be borne by the respondent. The City will provide only the staff assistance and documentation specifically referred to herein and will not be responsible for any other costs or obligation of any kind that may be incurred by a respondent. All proposals submitted to the City of Garden Grove in response to this RFP shall become the property of the City. The City appreciates your interest, time and effort in responding to our request.

Sincerely,


Dan Candelaria, P. E., T.E.
City Engineer

Attachments: Attachment "A" - Sample Consultant Agreement
 Attachment "B" - Various Insurance Endorsements
 Attachment "C" - Cost Proposal Form

City of Garden Grove

INTER-DEPARTMENT MEMORANDUM

To: Scott C. Stiles From: Patricia Song
Dept.: City Manager Dept.: Finance
Subject: Receive and file warrants. Date: 5/11/2021
(*Action Item*)

Attached are the warrants recommended to be received and filed.

ATTACHMENTS:

Description	Upload Date	Type	File Name
Warrants	5/5/2021	Warrants	5-11-21_CC_Warrants_(Payroll_04-30-21).pdf
Warrants	5/5/2021	Warrants	5-11-21_CC_Warrants_(03242021).pdf
Warrants	5/5/2021	Warrants	5-11-21_CC_Warrants_(03312021).pdf
Warrants	5/5/2021	Warrants	5-11-21_CC_Warrants_(04012021).pdf

184485	JUDITH A MOORE	1954.07	184486	DIANE BELAIR	1903.90
184487	MICHAEL F ROCHA	2070.84	184488	DAMIAN JESUS CHAVEZ	668.63
184489	ARTHUR J FLORES	2437.14	184490	FRANK X DE LA ROSA	3430.27
184491	ARNULFO GUZMAN JR	145.68	184492	ETHAN TANG	400.30
184493	SAMANTHA B VARGAS	883.06	184494	PATRICK R JULIENNE	2513.95
D379946	GEORGE S BRIETIGAM III	262.05	D379947	PHAT T BUI	22.48
D379948	STEVEN R JONES	197.01	D379949	STEPHANIE L KLOPFENSTEIN	86.52
D379950	DIEDRE THU HA NGUYEN	276.45	D379951	KIM B NGUYEN	280.23
D379952	JOHN R ONEILL	295.80	D379953	PAMELA M HADDAD	1624.24
D379954	SHAWN S PARK	2416.70	D379955	SCOTT C STILES	6645.87
D379956	MARIA A STIPE	5357.58	D379957	MEENA YOO	2347.03
D379958	AMANDA M POLLOCK	1750.44	D379959	TERESA L POMEROY	3711.55
D379960	LIZABETH C VASQUEZ	2255.67	D379961	VERONICA AVILA	2215.40
D379962	JEFFREY P DAVIS	2021.04	D379963	NOELLE N KIM	2336.43
D379964	RACHEL MENDIOLA	793.54	D379965	MARIE L MORAN	2551.33
D379966	ANA E PULIDO	3909.23	D379967	KRISTY H THAI	2296.50
D379968	SHAUNA J CARRENO	1975.43	D379969	VY D HO	1930.47
D379970	DANNY HUYNH	3666.59	D379971	VILMA C KLOESS	2445.58
D379972	IVY LE	2004.85	D379973	TAMMY LE	1227.53
D379974	LINDA MIDDENDORF	2582.28	D379975	MARIA A NAVARRO	2417.98
D379976	PHUONG VIEN T NGUYEN	2027.90	D379977	QUANG NGUYEN	2387.36
D379978	TINA T NGUYEN	2154.26	D379979	THYANA T PHI	2639.35
D379980	MARIA RAMOS	2312.02	D379981	TANYA L TO	1371.76
D379982	CUONG K TRAN	1865.72	D379983	ELAINE TRUONG	1615.32
D379984	THANH-NGUYEN VO	1557.09	D379985	DON T BALANAY	2015.23
D379986	SYLVIA GARCIA	1920.58	D379987	YUAN SONG	4999.91
D379988	RETA J WESTON	2272.66	D379989	KAREN M HARRIS	2769.04
D379990	CHRISTI C MENDOZA	933.13	D379991	TREVOR G SMOUSE	2382.13
D379992	JANET J CHUNG	2581.98	D379993	ANN C EIFERT	3089.39
D379994	MARGARITA ABOLA	1855.06	D379995	MARY ANN M ALCANCIA	2867.68
D379996	MARISA ATIN RAMOS	1276.73	D379997	ROBERT W MAY	1229.71
D379998	SHAWNA A MCDONOUGH	838.10	D379999	HEIDY Y MUNOZ	3267.77
D380000	SELAMAWIT NIGATU	2422.00	D380001	MY TRA VO	2227.32
D380002	LIGIA ANDREI	1736.47	D380003	KAREN J BROWN	639.13
D380004	CORINNE L HOFFMAN	2311.16	D380005	EDWARD E MARVIN JR	1777.33
D380006	ANGELA M MENDEZ	1651.37	D380007	JENNIFER L PETERSON	1854.54
D380008	ANH PHAM	1640.49	D380009	EVA RAMIREZ	1939.70
D380010	ALEXIS B ROMERO	1933.32	D380011	JAIME F CHAVEZ	1645.22
D380012	GARY F HERNANDEZ	1726.18	D380013	NEAL M MANALANSAN	1857.54
D380014	DANIEL J SANCHEZ	1719.15	D380015	SANDRA E SEGAWA	3491.88
D380016	ALANA R CHENG	3332.96	D380017	PAUL GUERRERO	2970.83
D380018	LISA L KIM	5113.27	D380019	JULIE A ASHLEIGH	1884.38
D380020	MICHAEL G AUSTIN	2439.05	D380021	RITA M CRAMER	2471.43
D380022	BRYSON T DAHLHEIMER	2258.13	D380023	RYAN J DAKE	2171.08
D380024	DAVID A DENT	4052.32	D380025	TODD C HARTWIG	2672.83
D380026	RALPH V HERNANDEZ	2360.87	D380027	AARON J HODSON	2230.13
D380028	DONALD E LUCAS	2901.43	D380029	SVETLANA MOURE	2161.24
D380030	PHU T NGUYEN	3807.21	D380031	LORENA J QUILLA SOULES	2655.07

**** PAGE TOTAL = 206596.55

D380032	PEDRO ROQUE	2708.36	D380033	JAKE P TRAN	698.54
D380034	CHRISTOPHER CHUNG	2634.93	D380035	PRIT J KASKLA	1969.48
D380036	HUONG Q LY	2049.26	D380037	LEE W MARINO	4264.56
D380038	MARIA L MARTINEZ	2329.67	D380039	MARIA C PARRA	3222.11
D380040	MONICA COVARRUBIAS	3380.74	D380041	GRACE E LEE	2497.76
D380042	AMEENAH ABU HAMDIYYAH	1890.59	D380043	GREG BLODGETT	3402.48
D380044	ALBERT O NUNEZ BLANCO	544.95	D380045	ORLINO CAMPOS REFUERZO J	544.95
D380046	ROY N ROBBINS	3414.33	D380047	TIMOTHY E THRONE	1863.50
D380048	MICHAEL C BOS	2040.77	D380049	DANIEL J CANDELARIA	3840.50
D380050	VINCENT L DE LA ROSA	2282.73	D380051	KAMYAR DIBAJ	604.95
D380052	ALICIA M HOFER	1907.07	D380053	NICOLAS C HSIEH	3411.45
D380054	ROSEMARIE JACOT	2058.19	D380055	SHAN L LEWIS	2495.98
D380056	NAVIN B MARU	4516.90	D380057	JUAN C NAVARRO	2412.84
D380058	MICHAEL F SANTOS	3732.82	D380059	MARK P UPHUS	4064.38
D380060	JOSE A VASQUEZ	2726.04	D380061	ANA G VERGARA NEAL	2555.08
D380062	DAI C VU	3996.45	D380063	KHANG L VU	3282.76
D380064	CHRISTOPHER L ALLEN	1725.82	D380065	JOSHUA ARIONUS	1977.16
D380066	ALEJANDRO BANUELOS	3989.02	D380067	JAN BERGER	2238.42
D380068	ROBERT P BERMUDEZ	1278.72	D380069	TIM P CANNON	3792.88
D380070	CARINA M DAN	2208.43	D380071	RYAN H DAVIS	1935.72
D380072	RONALD W DIEMERT	2030.61	D380073	CHRIS N ESCOBAR	2356.02
D380074	JEREMY J GLENN	1772.60	D380075	ALEJANDRO GONZALEZ	3225.04
D380076	MICHAEL J GRAY	1719.01	D380077	LARRY GRIFFIN	2444.77
D380078	ROBERT A HAENDIGES	3986.79	D380079	RYAN S HART	2062.06
D380080	ANTHONY S HERNANDEZ	538.25	D380081	EDWARD A HUY	6544.60
D380082	VIDAL JIMENEZ	1478.50	D380083	LIYAN JIN	2822.44
D380084	SAMUEL K KIM	3712.49	D380085	REBECCA PIK KWAN LI	3885.35
D380086	DAVID MA AE	1778.23	D380087	RAQUEL K MANSON	3847.17
D380088	ALFREDO MARTINEZ	1760.85	D380089	TYLER MEISLAHN	1964.03
D380090	JESSE K MONTGOMERY	2217.29	D380091	JUSTIN M MORRIS	1790.10
D380092	STEVEN J MOYA JR	2251.29	D380093	BASIL G MURAD	2728.20
D380094	KIRK L NATLAND	1342.69	D380095	DUC TRUNG NGUYEN	2393.89
D380096	LISA NGUYEN	655.35	D380097	CORNELIU NICOLAE	1947.04
D380098	ANDREW I ORNELAS	2193.81	D380099	DAVID A ORTEGA	2378.31
D380100	CELESTINO J PASILLAS	2717.85	D380101	WILLIAM F PEARSON	2717.48
D380102	JESSICA J POLIDORI	3052.47	D380103	CHRISTOPHER B PRUDHOMME	2230.74
D380104	LES A RUITENSCHILD	3265.32	D380105	JONATHAN RUIZ	2489.55
D380106	ALEXIS SANTOS	1174.67	D380107	ADRIAN M SARMIENTO	2654.66
D380108	ALBERT TALAMANTES JR	2016.55	D380109	MINH K TRAN	2132.47
D380110	ALEJANDRO VALENZUELA JR	1274.19	D380111	ALEJANDRO N VALENZUELA	3070.37
D380112	RONALD J WOLLAND	1393.31	D380113	VICTOR K YERGENSEN	2045.86
D380114	ALICE K FREGOSO	1909.83	D380115	ALICIA R GARCIA	733.25
D380116	WILLIAM E MURRAY JR	6267.14	D380117	EMILY H TRIMBLE	1903.71
D380118	ALFRED J AGUIRRE	2867.03	D380119	EDWARD D AMBRIZ GARCIA	630.07
D380120	RODOLPHO M BECERRA	2572.24	D380121	RAYMOND A BUCHLER	1526.45
D380122	EDGAR A CANO	968.81	D380123	ALBERT J CARRISOZA	1830.66
D380124	GABRIELA R CONTRERAS	2590.79	D380125	JULIE T COTTON	1665.47
D380126	ERIC M ESPINOZA	1771.13	D380127	ALBERT R EURS II	2588.23

**** PAGE TOTAL = 232378.37

D380128	ROBERT J FRANCO	632.36	D380129	CASEY G GIROUARD	1405.79
D380130	HERMILO HERNANDEZ	1978.63	D380131	DARNELL D JERRY	525.34
D380132	BRENT KAYLOR	2087.18	D380133	MARK W LADNEY	2619.82
D380134	RAUL LEYVA	4543.97	D380135	DIEGO A MEJIA	2134.61
D380136	RIGOBERTO MENDEZ	2275.43	D380137	STEVEN T ORTIZ	3136.15
D380138	PHILLIP Q PHAM	492.75	D380139	RICHARD L PINKSTON	2482.61
D380140	JOSE J ROMAN	568.07	D380141	ALEXIS P TARIN	2100.78
D380142	STEVE J TAUANU'U	15528.65	D380143	STEPHANIE A WASINGER	641.29
D380144	SHAQUANNA D WESTON	576.74	D380145	RICK S ZIEGLER	140.88
D380146	IOAN ANDREI	1040.61	D380147	SYLVESTER A BABINSKI IV	1819.62
D380148	DONEISHA L BELL	650.03	D380149	JEFFREY G CANTRELL	2055.62
D380150	JULIA ESPINOZA	1229.39	D380151	CECELIA A FERNANDEZ	1198.28
D380152	CONRAD A FERNANDEZ	1003.88	D380153	DIANA GOMEZ	964.06
D380154	JORGE GONZALEZ	1155.65	D380155	MICHAEL R GREENE	1871.45
D380156	RONALD D GUSMAN	1053.12	D380157	GLORIA A HARO	1083.47
D380158	ERIC W JOHNSON	1195.90	D380159	LEONEL A LAMAS	929.05
D380160	KHUONG NGUYEN	1213.16	D380161	DELFRADO C REYES	1213.16
D380162	RAFAEL ROBLES	1658.53	D380163	ADRIANNA M RODRIGUEZ	1096.78
D380164	EDWIN O THURMAN JR	961.67	D380165	RODERICK THURMAN	1699.87
D380166	EVARISTO VERA	1617.30	D380167	RICHARD L WILLIAMS	2017.00
D380168	ANSELMO AGUIRRE	1877.87	D380169	DOMINIC CAMERA	734.59
D380170	PHILLIP J CARTER	2468.29	D380171	RICK L DUVAL	2405.20
D380172	AARON R HANSEN	1373.99	D380173	HUY HOA HUYNH	2172.60
D380174	MATTHEW D ILFELD	1313.55	D380175	BRYAN D KWIATKOWSKI	1957.41
D380176	DANIEL C MOSS	1359.93	D380177	ROLANDO QUIROZ	2020.40
D380178	RICARDO SALDIVAR	577.04	D380179	WILLIAM A SOTO	1655.20
D380180	LUIS A TAPIA	2360.00	D380181	MICHAEL W THOMPSON	3158.50
D380182	JOSEPH E TRUJILLO	1341.48	D380183	WILLIAM J WHITE	2081.42
D380184	JESSE GUZMAN	1863.67	D380185	MARK M KHALIL	2061.82
D380186	BRETT A MEISLAHN	2286.30	D380187	DOUGLAS A MOORE	2216.36
D380188	ANDREW J MORELAND	608.88	D380189	AUSTIN H POWELL	2016.06
D380190	MELVIN P REED	1657.21	D380191	STEPHEN D SUDDUTH	2080.18
D380192	HILLARD J WILLIAMS	1085.71	D380193	SOUHELIA K GOUNTOUNA	2209.88
D380194	ALBERT J HOLMON III	3349.94	D380195	VICTOR T BLAS	2754.27
D380196	JOSE GOMEZ	1938.36	D380197	MICHAEL V GUERRERO	1553.27
D380198	BRENT W HAYES	3355.73	D380199	FRANK D HOWENSTEIN	3294.27
D380200	ALLEN G KIRZNER	3590.22	D380201	BRANDON S NUNES	1472.37
D380202	STEPHEN PORRAS	3367.66	D380203	JESSE VIRAMONTES	1495.47
D380204	JOHN ZAVALA	3427.38	D380205	YOLANDA A ALVARADO	492.75
D380206	STEPHANIE AMBRIZ	362.05	D380207	JOSELYN D AVALOS	225.09
D380208	REBECCA J BAILOR	505.30	D380209	JOSUE BARREIRO MENDOZA	1489.43
D380210	DYLAN J BOGGAN	607.15	D380211	RACHEL M CAMARENA	2110.07
D380212	RENE CAMARENA	2027.96	D380213	VICTORIA M CASILLAS	1836.39
D380214	AMANDA D CROSS	1720.51	D380215	GISELL L CRUZ	816.51
D380216	MARLY DELGADO CHAVEZ	499.02	D380217	GABRIELA DIAZ	629.65
D380218	KELDEN A DOWNS	373.12	D380219	MARK C FREEMAN	3168.34
D380220	JARED D GARCIA	450.84	D380221	STEVEN E GOMEZ	676.19
D380222	JACOB R GRANT	1782.06	D380223	KALYSTA N LOPEZ	126.70

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D380224	ELAINE M MA AE	2482.21	D380225	LORENA OCHOA MCINTYRE	1940.40
D380226	JESUS MEDINA	1762.94	D380227	JUAN MEDINA	2121.33
D380228	JOHN A MONTANCHEZ	4735.58	D380229	KIRSTEN K NAKAISHI	1091.75
D380230	NOEL N NICHOLAS	950.71	D380231	JENNIFER GODDARD NYE	2617.39
D380232	GABRIELA OCADIZ HERNANDE	2896.75	D380233	STEPHANIE ORTIZ	224.72
D380234	CHRISTIAN PANGAN	100.31	D380235	JANET E PELAYO	3410.85
D380236	EDOUARD T PHAN	129.29	D380237	SHADY S PUAILOA	496.16
D380238	JENAVIE QUINTERO	233.09	D380239	SUGEIRY REYNOSO	2273.35
D380240	MARINA Y ROMERO	1890.88	D380241	MARIA D ROSALES	294.30
D380242	TANYA ROSAS	87.41	D380243	DIANA SALDIVAR	51.72
D380244	DANA MARIE SAUCEDO	2864.97	D380245	EMERON J SCHLUMPBERGER	986.78
D380246	REBECCA S SMITH	87.41	D380247	ANNIE NGAN TRAN-LUONG	680.01
D380248	KENNETH P TRAVIS III	349.63	D380249	CLAUDIA VALDIVIA	2918.42
D380250	JEFFREY VAN SICKLE	2189.17	D380251	JOSHUA VENCES	470.82
D380252	PAUL E VICTORIA	1294.69	D380253	JACOB D VIRAMONTES	286.25
D380254	PEDRO R ARELLANO	3695.48	D380255	THOMAS R DARE	6048.13
D380256	CAROLE A KANEGAE	2260.24	D380257	CLAUDIA ALARCON	3064.12
D380258	KRISTEN A BACKOURIS	1466.86	D380259	SHARON S BAEK	2069.42
D380260	GENA M BOWEN	1742.28	D380261	JESENIA CAMPOS	2041.97
D380262	BRIAN D DALTON	2794.62	D380263	NICHOLAS A DE ALMEIDA LO	4360.43
D380264	AMIR A EL FARRA	4325.10	D380265	HELENA EL SOUSOU	2383.50
D380266	BRIAN C GIRGENTI	3080.19	D380267	AI KELLY HUYNH	2142.30
D380268	MICHAEL J JENSEN	4326.84	D380269	ALLYSON T LE	1618.24
D380270	MATTHEW P MARCHAND	3531.49	D380271	LINDA M MORIN	3237.79
D380272	PHILLIP H PHAM	3210.80	D380273	REYNA ROSALES	1836.46
D380274	ROBERT M STEPHENSON III	3941.92	D380275	MICHAEL J VISCOMI	3332.39
D380276	CARL J WHITNEY	9391.37	D380277	GIOVANNI ACOSTA	2321.23
D380278	TIMOTHY R ASHBAUGH	2640.44	D380279	ALFREDO R AVALOS	4457.17
D380280	COLLIN E BAKER	2329.65	D380281	RENZO CHUMBE	2681.69
D380282	DARRYL B CORTEZ JR	2047.84	D380283	GARY L COULTER	2924.13
D380284	CHARLIE DANIELEY III	3170.32	D380285	ISAAC DAVILA	2146.67
D380286	RONALD A DOSCHER	1128.89	D380287	BROC D DUDLEY	2533.20
D380288	STEPHEN C ESTLOW	1164.83	D380289	JESUS FAJARDO	2819.03
D380290	HECTOR FERREIRA JR	3025.58	D380291	ROBERT D FRESENIUS	2560.51
D380292	JASON S FULTON	2606.19	D380293	JESUS GOMEZ	2131.43
D380294	TRAVIS J HADDEN	2514.26	D380295	JOSE D HERRERA	3962.33
D380296	JASON A HOWARD	2813.51	D380297	KIRK P HURLEY	2324.80
D380298	DONALD J HUTCHINS	3413.75	D380299	NICKOLAS K JENSEN	3060.09
D380300	CHAD B KIM	2330.13	D380301	TIMOTHY P KOVACS	3106.63
D380302	MICHAEL J LANG	2787.66	D380303	ANGELA LEDESMA	61.31
D380304	RAPHAEL M LEE	815.89	D380305	MARK A LORD	3895.95
D380306	RYAN M LUX	4458.94	D380307	JORGE L MAZON	2670.76
D380308	MICHAEL A MOSER	1916.08	D380309	MITCHEL S MOSSER	2887.15
D380310	JACOB J NEELY	2150.59	D380311	JASON S PERKINS	3929.77
D380312	COREY T POLOPEK	323.44	D380313	SINDY RAMIREZ OROZCO	2796.62
D380314	JOHN E RANEY	2989.47	D380315	THOMAS S REED	3195.57
D380316	AARON T SHIPLEY	2181.76	D380317	SHAYLEN L SIMONS	2275.53
D380318	CHARLES W STARNES	2612.74	D380319	PAUL M TESSIER	3299.07

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D380320	VINCENTE J VAICARO	3597.20	D380321	EDGAR VALENCIA	3420.26
D380322	ROYCE C WIMMER	4341.71	D380323	SARAH A WRIGHT	2465.26
D380324	COLE A YNIGUEZ	3130.01	D380325	DAVID C YOUNG	3672.64
D380326	MARCOS R ALAMILLO	3524.51	D380327	BOBBY B ANDERSON	2990.82
D380328	FRANCISCO AVALOS JR	2167.88	D380329	JOHN F BANKSON	3337.11
D380330	JAMES A BLUM	2791.74	D380331	TROY F BOWMAN	2358.49
D380332	JEFFREY A BROWN	4064.68	D380333	RYAN V BUSTILLOS	3251.47
D380334	JUAN C CENTENO	5220.97	D380335	DAVID Y H CHANG	2998.30
D380336	JEROME L CHEATHAM	2754.81	D380337	HAN J CHO	4405.73
D380338	BRIAN M CLASBY JR	3689.39	D380339	JULIO C CORTEZ	2374.10
D380340	JUAN L DELGADO JR	3569.50	D380341	KEVIN DINH	2793.08
D380342	TAYLOR M DUARTE	2393.09	D380343	OTTO J ESCALANTE	5083.88
D380344	JOSHUA N ESCOBEDO	3416.20	D380345	MICHELLE N ESTRADA MONSA	2794.24
D380346	GEORGE R FIGUEREDO	1796.67	D380347	SEAN M GLEASON	2346.76
D380348	GONZALO GONZALEZ JR	2320.14	D380349	KYLE N HALEY	1590.63
D380350	EFRAIN A JIMENEZ JR	2479.94	D380351	CODY M JOHNSON	3052.65
D380352	ROBERT J KIVLER	2254.85	D380353	ARION J KNIGHT	2121.31
D380354	PETER M KUNKEL	3188.33	D380355	ERICK LEYVA	4054.82
D380356	RAFAEL LOERA JR	3025.46	D380357	JESSE A LUCATERO	2528.84
D380358	ROBERTO MACHUCA	2412.80	D380359	TAYLOR A MACY	2816.27
D380360	GIANLUCA F MANIACI	2839.31	D380361	BRYAN J MEERS	3281.10
D380362	NATHAN D MORTON	3615.08	D380363	PATRICK W MURPHY	2543.23
D380364	PATRICK J MUSCHETTO	2091.75	D380365	THOMAS R NADOLSKI	1789.36
D380366	JEFFREY C NGUYEN	3231.52	D380367	JOSHUA T OLIVO	3668.02
D380368	STEVEN TRUJILLO ORTIZ	2151.75	D380369	JOSEPH N PANELLA	2060.43
D380370	EMANUEL PEREZ	2143.81	D380371	OMAR F PEREZ	2109.48
D380372	LUIS A QUIROZ	1805.01	D380373	LUIS F RAMIREZ	3319.67
D380374	RON A REYES	3104.99	D380375	DANIEL RODRIGUEZ	2517.67
D380376	SEAN M SALAZAR	2826.64	D380377	ALFREDO SALGADO JR.	2107.20
D380378	CHRISTOPHER M SHELREN	2608.36	D380379	LEVI JOENIEL SILVA	2365.70
D380380	PAUL W ASHBY	3160.96	D380381	THOMAS A CAPPS	2299.19
D380382	MICHAEL K ELHAMI	2897.13	D380383	SHELBY KEUILIAN	1826.35
D380384	DANNY J MIHALIK	3242.52	D380385	JEREMY N MORSE	2960.18
D380386	JASON M MURO	3027.94	D380387	DANIELLE E RIEDL	2503.52
D380388	ROCKY F RUBALCABA	3269.93	D380389	LINO G SANTANA	4697.82
D380390	DUO XU	1381.41	D380391	JOHN J YERGLER	3395.53
D380392	CHRISTOPHER M EARLE	3277.02	D380393	BENJAMIN M ELIZONDO	2907.15
D380394	KRISTOFER D KELLEY	2821.52	D380395	NICHOLAS A LAZENBY	3098.88
D380396	CHARLES H LOFFLER	3188.19	D380397	BRADLEY A LOWEN	2744.51
D380398	RYAN R RICHMOND	1954.61	D380399	GAREY D STAAL	3378.78
D380400	JOSHUA K BEHZAD	2326.41	D380401	AARON J COOPMAN	2719.12
D380402	MICHAEL E GERDIN	2674.84	D380403	TROY HALLER	4166.98
D380404	JASON L JOHNSON	2535.45	D380405	RAUL MURILLO JR	4238.94
D380406	ERIC T RUZIECKI	3118.05	D380407	RENE BARRAZA	2919.58
D380408	DEREK M LINK	3331.95	D380409	ADAM D ZMIJA	3883.24
D380410	LISA A BELTHIUS	139.30	D380411	RICHARD O BURILLO	4491.13
D380412	RANDY G CHUNG	408.31	D380413	COURTNEY P CIBOSKY	3028.08
D380414	ADAM B COUGHRAN	299.06	D380415	JOHN DANG	465.45

**** PAGE TOTAL = 273555.65

D380416	CHRISTOPHER C DOVEAS	30.81	D380417	DANIEL S EDWARDS	612.51
D380418	VICTORIA A JORDAN	176.15	D380419	EDWARD K KIM	723.67
D380420	EDUARDO C LEIVA	5638.65	D380421	MARIO MARTINEZ JR	4611.02
D380422	JOHN O OJSEKHOBIA	371.48	D380423	JOSEPH A GARCIA	449.45
D380424	JENNIFER L ITURRALDE	465.45	D380425	RODOLFO B RAMOS	465.45
D380426	RUDY A ROCHA	500.23	D380427	KENTON TRAN	443.98
D380428	CALEB I VAUGHN	456.31	D380429	TYLER D VU	587.21
D380430	KAREN D BRAME	1002.11	D380431	KENNETH L CHISM	1774.21
D380432	PAUL E DANIELSON	592.85	D380433	TANNER C DE PADUA	1719.51
D380434	KORY C FERRIN	3873.04	D380435	JAMES D FISCHER	1223.30
D380436	VICTORIA M FOSTER	1725.27	D380437	THI A HUYNH	2405.16
D380438	SERGIO J JIMENEZ TAVAREZ	1728.26	D380439	KENNETH E MERRILL	496.41
D380440	BRANDON J PAQUA	1800.26	D380441	DOUGLAS A PLUARD	4580.83
D380442	BRYANT D RICHARDS	1800.26	D380443	DANIEL C VIGIL	1802.51
D380444	WILLIAM ALLISON	4721.71	D380445	RICHARD A ALVAREZ BROWN	3005.46
D380446	BEAU A BERENGER	3112.06	D380447	RAY E BEX	4687.78
D380448	PATRICIA C FLINN	2623.41	D380449	PATRICK E GILDEA	5187.30
D380450	BAO TINH THI LE	1184.29	D380451	RAQUEL D MATA	1330.99
D380452	REBECCA S MEEKS	3991.31	D380453	JONATHAN B WAINWRIGHT	3489.65
D380454	MARIA A ALCARAZ	1955.34	D380455	MADELINE M ALVARADO	1556.46
D380456	MARIA S ATWOOD	1834.86	D380457	RYAN S BERLETH	2143.37
D380458	BRITTANEE N BRANTNER	1719.17	D380459	CARISSA L BRUNICK	1465.51
D380460	TAMMY L CHAURAN HAIRGROV	1596.60	D380461	JACINTA F CHOWDHURY	1839.20
D380462	KRISTINA L CORNETT	1522.70	D380463	RUSSELL B DRISCOLL	2310.52
D380464	VERONICA FRUTOS	1282.54	D380465	DAVID L GEORGE	2028.29
D380466	PINKY C HINGCO	2308.44	D380467	LINDALINH THU LY	1551.85
D380468	MARIA C MCFARLANE	2059.38	D380469	DAWN M MONTOYA	1771.80
D380470	TRINA T NGUYEN	1815.88	D380471	MANUEL A QUIRALTE AGUAYO	1679.63
D380472	JENNIFER V ROMBOUGH	1960.16	D380473	KIMBRA S VELLANOWETH	1929.83
D380474	CHRISTAL L WEYKER	1664.74	D380475	SHANNON M YELENSKY	1697.60
D380476	SANDRA M ARROYO	1873.63	D380477	SHYLER R.D. CHAPPELL	1936.09
D380478	JENNIFER A DIX	2416.14	D380479	KATHERINE M FRANCISCO	1416.97
D380480	AMANDA B GARNER	1885.77	D380481	ARCHIE GUZMAN	2528.85
D380482	LAUREN M LADD	2311.05	D380483	ROBERT D LUX	2190.75
D380484	MELISSA MENDOZA CAMPOS	2494.41	D380485	BRANDY J PARK	2600.01
D380486	CRISTINA V PAYAN	2105.64	D380487	JENNIFER M RODRIGUEZ	2376.06
D380488	TANYA L SAMOFF	2735.94	D380489	SUSAN A I SEYMOUR	2386.79
D380490	NICOLE D SHORROW	2632.18	D380491	DANNY J SOSEBEE	1785.24
D380492	MARSHA D SPELLMAN	2429.93	D380493	SPENCER T TRAN	2356.34
D380494	SANTA WARDLE	1073.85	D380495	CHERYL L WHITNEY	1857.93
D380496	EVAN S BERESFORD	3202.91	D380497	DANIEL A CAMARA	2566.18
D380498	RICHARD E DESBIENS	2244.76	D380499	JAMES D FRANKS	2589.17
D380500	PETE GARCIA	2438.88	D380501	ROBERT J GIFFORD	3465.83
D380502	STEVEN H HEINE	1850.93	D380503	WILLIAM T HOLLOWAY	5022.46
D380504	GERALD F JORDAN	4156.19	D380505	JOSEPH L KOLANO	2296.12
D380506	LEA K KOVACS	2642.76	D380507	DAVID LOPEZ	3467.99
D380508	STEVEN W LUKAS	1930.41	D380509	ADAM C NIKOLIC	5055.32
D380510	LUIS A PAYAN	2512.48	D380511	TERRA M RAMIREZ	2381.02

**** PAGE TOTAL = 206301.16

D380512	CHRISTIN E ROGERS	3360.72	D380513	BRIAN T STROUD	8925.18
D380514	TUONG-VAN NGUYEN VU	2045.86	D380515	DENNIS WARDLE	3009.09
D380516	SUMMER A BOGUE	2078.77	D380517	FLOR DE LIS ELIZONDO	2262.56
D380518	ERIC A QUINTERO	572.68	D380519	ASHLEY C ROJAS	1701.79
D380520	JANNA K BRADLEY	2343.65	D380521	MARY C CERDA	2007.19
D380522	BRANDI M HART	758.84	D380523	LIANE Y KWAN	3317.55
D380524	JANY H LEE	3605.22	D380525	SHERRILL A MEAD	2301.23
D380526	STEPHANIE E RICHARDS	1873.82	D380527	CAITLYN M STEPHENSON	2045.82
D380528	LAURA J STOVER	4983.27	D380529	ANNA L GOLD	1926.80
D380530	KATRENA J SCHULZE	1072.09	D380531	MATTHEW T SWANSON	1752.51
D380532	ANTHONY VALENZUELA	1498.15	D380533	CANDY G WILDER	1931.51
D380534	STEVEN F ANDREWS	2472.72	D380535	TERENCE S CHANG	2641.51
D380536	VERNA L ESPINOZA	1978.29	D380537	CESAR GALLO	2856.89
D380538	ERNIE E HINGCO	1910.47	D380539	GEOFFREY A KLOESS	3563.20
D380540	RACHOT MORAGRAAN	3632.02	D380541	NOEL J PROFFITT	3014.27
D380542	ANAND V RAO	4388.77	D380543	ROD T VICTORIA	2995.81
D380544	TERREL KEITH WINSTON	3154.77	D380545	O.C.E.A. GENERAL	2327.20
D380546	O.C.E.A.	1101.61	D380547	POLICE ASSN	15927.88
D380548	COMMUNITY HEALTH CHARITI	45.00	D380549	GARDEN GROVE POLICE ASSO	1640.00
D380550	SOCAL CREDIT UNION	45927.00	D380551	SOUTHLAND CREDIT UNION	4575.00
W2798	GREAT WEST LIFE 457 #340	107126.41	W2799	GREAT WEST LIFE OBRA#340	2054.13
W2800	INTERNAL REVENUE SERVICE	279584.42	W2801	EMPLOYMENT DEVELOPMENT D	86007.33

**** PAGE TOTAL = 634299.00

TOTAL CHECK PAYMENTS	10
TOTAL DIRECT DEPOSITS	606
TOTAL WIRE PAYMENTS	4
GRAND TOTAL PAYMENTS	620

16,407.84
1,463,274.69
474,772.29
.....
1,954,454.82

Handwritten signature

Checks #184485 thru #184494, and Direct Deposits #D379946 thru #D380551, and wire #W2798 thru #W2801 presented in the Payroll Register submitted to the Garden Grove City Council 11 MAY 2021, have been audited for accuracy and funds are available for payment thereof.

Handwritten signature
PATRICIA SONG - FINANCE DIRECTOR



City of Garden Grove
Certificate of Warrants
Register Dates:
03/24/2021

This is to certify the demands covered by Wire numbers 00000400 through 00000431, and EFT numbers 00008872 through 00008887, and check numbers 00670039 through 00670144 inclusive as listed on this register and have been verified by the Finance Division as properly issued and bear all proper signatures.

Note: Wire numbers 00000429 and 00000430 were skipped

A handwritten signature in blue ink, appearing to read 'Patricia Song', written over a horizontal line.

Finance Director
Patricia Song

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Between Mar 18, 2021 and Mar 24, 2021

Report Generated on Apr 5, 2021 11:09:48 AM

Page 1

AP - Checking Account

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00000400	V00789	SO CALIF EDISON CO	03/24/2021	\$229.76
00000401	V00792	SO CALIF GAS CO	03/24/2021	\$18,247.66
00000402	V00792	SO CALIF GAS CO	03/24/2021	\$645.87
00000403	V00686	FRONTIER COMMUNICATION	03/24/2021	\$1,465.53
00000404	V00789	SO CALIF EDISON CO	03/24/2021	\$105,325.88
00000405	V02152	EXPERT PAY CHILD SUPPO	03/24/2021	\$3,081.52
00000406	V02091	MARYLAND CHILD SUPPORT	03/24/2021	\$343.38
00000407	V02089	SHANNON WAINWRIGHT	03/24/2021	\$553.85
00000408	V01545	CITY OF GARDEN GROVE-L	03/24/2021	\$54,221.69
00000409	V01545	CITY OF GARDEN GROVE-L	03/24/2021	\$59,190.52
00000410	V02087	DELTA CARE USA	03/24/2021	\$6,168.95
00000411	V01539	DELTA DENTAL OF CALIFO	03/24/2021	\$16,887.00
00000412	V01539	DELTA DENTAL OF CALIFO	03/24/2021	\$2,524.56
00000413	V01539	DELTA DENTAL OF CALIFO	03/24/2021	\$18,862.60
00000414	V01375	EMPLOYMENT DEVELOPMENT	03/24/2021	\$15,682.12
00000415	V00732	THE LINCOLN NATIONAL L	03/24/2021	\$3,416.45
00000416	V00732	THE LINCOLN NATIONAL L	03/24/2021	\$7,210.32
00000417	V00541	MUNICIPAL WATER DISTRI	03/24/2021	\$313,019.48
00000418	V01579	ORANGE COUNTY FIRE AUT - MARCH 2021	03/24/2021	\$1,972,914.00
00000419	V01579	ORANGE COUNTY FIRE AUT - APRIL 2021	03/24/2021	\$1,972,914.00
00000420	V01596	PUBLIC EMPLOYEES' RETI	03/24/2021	\$638,705.23
00000421	V01596	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	03/24/2021	\$489,903.24
00000422	V01596	PUBLIC EMPLOYEES' RETI	03/24/2021	\$489,434.34
00000423	V02036	US BANK TRUST NA	03/24/2021	\$30,239.19
00000424	V02036	US BANK TRUST NA	03/24/2021	\$788,125.00
00000425	V02036	US BANK TRUST NA	03/24/2021	\$514,223.53
00000426	V02088	VISION SERVICE PLAN -	03/24/2021	\$6,945.00
00000427	V00691	CITY OF GARDEN GROVE-W	03/24/2021	\$777,446.49
00000428	V01545	CITY OF GARDEN GROVE-LIABILITY ACCT	03/24/2021	\$0.10
00000431	V00819	VERIZON WIRELESS-LA	03/24/2021	\$1,220.91
00008872	V00585	ADMINSURE	03/24/2021	\$16,939.00
00008873	V01479	AMAZON WEB SERVICES, INC	03/24/2021	\$3,036.74
00008874	V00523	BPS SUPPLY GROUP	03/24/2021	\$7.18
00008875	V00657	CALIF FORENSIC PHLEBOTOMY, INC	03/24/2021	\$1,819.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Between Mar 18, 2021 and Mar 24, 2021

Report Generated on Apr 5, 2021 11:09:48 AM

Page 2

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00008876	V00224	CDW-GOVERNMENT, INC	03/24/2021	\$1,345.36
00008877	V00672	CRON & ASSOCIATES TRANSCRIPTION, INC	03/24/2021	\$2,780.52
00008878	V01305	FLEMING ENVIRONMENTAL, INC	03/24/2021	\$2,604.18
00008879	V00218	GRAINGER	03/24/2021	\$1,863.83
00008880	V01391	INTELEPEER CLOUD COMMUNICATIONS, LLC	03/24/2021	\$1,892.92
00008881	V00716	INTERVAL HOUSE	03/24/2021	\$1,332.00
00008882	V01286	JTB SUPPLY CO, INC	03/24/2021	\$20,107.00
00008883	V00722	KEYSER/MARSTON ASSOCIATES, INC	03/24/2021	\$7,290.00
00008884	V00210	PEST OPTIONS, INC	03/24/2021	\$917.25
00008885	V00230	SCHAFER CONSULTING, INC	03/24/2021	\$8,700.00
00008886	V00261	STRICTLY TECHNOLOGY, LLC	03/24/2021	\$1,174.11
00008887	V00520	WESTERN EXTERMINATOR	03/24/2021	\$1,736.90
00670039	V02387	A & H REFRIGERATION, INC.	03/24/2021	\$4,500.00
00670040	V00280	ACA COMPLIANCE SERVICES, INC	03/24/2021	\$37.75
00670041	V02594	AGA ENGINEERS, INC.	03/24/2021	\$563.00
00670042	V00573	ALAN'S LAWN AND GARDEN CENTER, INC	03/24/2021	\$96.57
00670043	V00421	ALEXANDER'S CONTRACT SERVICES, INC	03/24/2021	\$597.00
00670044	V00426	ALS GROUP USA CORP	03/24/2021	\$3,417.55
00670045	V00639	ANAHEIM HOUSING AUTHORITY COMMUNITY DEV	03/24/2021	\$300.00
00670046	V00640	ANGELUS QUARRIES, INC	03/24/2021	\$686.71
00670047	V00647	ANTHONY BIRMINGHAM WINDOW CLEANING	03/24/2021	\$1,207.00
00670048	V02328	APPLEONE EMPLOYMENT SERVICES	03/24/2021	\$1,624.32
00670049	V00864	ASSOCIATED SOILS ENGINEERING, INC	03/24/2021	\$440.00
00670050	V00033	AT&T CORP	03/24/2021	\$20,113.75
00670051	V00145	AUTONATION FORD TUSTIN	03/24/2021	\$161.26
00670052	V00645	BARR AND CLARK, INC	03/24/2021	\$195.00
00670053	V00433	BATTERY SYSTEMS, INC	03/24/2021	\$1,066.83
00670054	V00429	BEE REMOVERS	03/24/2021	\$165.00
00670055	V00162	BIG RON'S AUTO BODY & PAINT, INC	03/24/2021	\$12,622.94
00670056	V00125	BOUND TREE MEDICAL, LLC	03/24/2021	\$86.98
00670057	V00074	BSN SPORTS, LLC	03/24/2021	\$998.10
00670058	V00655	C WELLS PIPELINE MATERIALS, INC	03/24/2021	\$4,111.85
00670059	V00410	CALIFORNIA FUELS & LUBRICANTS	03/24/2021	\$14,137.50
00670060	V00175	CALIFORNIA YELLOW CAB	03/24/2021	\$1,685.00
00670061	V00660	CAMERON WELDING SUPPLY	03/24/2021	\$60.12

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Between Mar 18, 2021 and Mar 24, 2021

Report Generated on Apr 5, 2021 11:09:48 AM

Page 3

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00670062	V00554	CARL WARREN & CO	03/24/2021	\$1,365.00
00670063	V00534	CHEM PRO LABORATORY, INC	03/24/2021	\$380.00
00670064	V00596	CLEANSTREET	03/24/2021	\$55,669.58
00670065	V00428	CLEARs	03/24/2021	\$150.00
00670066	V02639	COMMONWEALTH LAND TITLE	03/24/2021	\$2,250.00
00670067	V00666	COMMUNITY VETERINARY HOSPITAL INC	03/24/2021	\$4,001.00
00670068	V00667	CONTINENTAL CONCRETE CUTTING	03/24/2021	\$1,940.00
00670069	V00298	COSTAR GROUP, INC	03/24/2021	\$492.24
00670070	V01366	DEWBERRY ARCHITECTS, INC	03/24/2021	\$20,646.90
00670071	V00003	DG SIGN	03/24/2021	\$3,267.80
00670072	V00184	DIAMOND ENVIRONMENTAL SERVICES	03/24/2021	\$298.60
00670073	V01540	DISABILITY MANAGEMENT EMPLOYER COALITION, INC	03/24/2021	\$210.00
00670074	V00259	DTNTECH MARKETING	03/24/2021	\$3,976.54
00670075	V00676	DUNN-EDWARDS CORPORATION	03/24/2021	\$219.50
00670076	V00682	EWING IRRIGATION PRODUCTS, INC	03/24/2021	\$2,692.47
00670077	V00233	FACTORY MOTOR PARTS CO BIN 139107	03/24/2021	\$2,705.68
00670078	V02053	FIELDMAN,ROLAPP & ASSC., INC	03/24/2021	\$630.50
00670079	V00658	FRANCHISE TAX BOARD	03/24/2021	\$441.40
00670080	V00143	FRYE SIGN CO	03/24/2021	\$1,730.00
00670081	V02369	G4S SECURE SOLUTIONS (USA) INC	03/24/2021	\$51,718.99
00670082	V00054	GALLS LLC	03/24/2021	\$669.64
00670083	V00140	GARDEN GROVE SECURED STORAGE	03/24/2021	\$4,156.80
00670084	V00266	GOVERNMENT SOCIAL MEDIA, LLC	03/24/2021	\$549.00
00670085	V01039	GRAPHIC CONTROLS, LLC	03/24/2021	\$684.80
00670086	V01386	GREEN HALO SYSTEMS	03/24/2021	\$273.00
00670087	V02116	HABITAT FOR HUMANITY OF ORANGE COUNTY, INC.	03/24/2021	\$6,000.00
00670088	V00707	HACH COMPANY, INC	03/24/2021	\$1,271.48
00670089	V02182	HARMONY LAB & SAFETY SUPPLIES	03/24/2021	\$89.01
00670090	V00544	HARRINGTON INDUSTRIAL PLASTICS, LLC	03/24/2021	\$1,412.19
00670091	V00711	HILL'S BROS LOCK & SAFE, INC	03/24/2021	\$16.15
00670092	V00715	ICC LOS ANGELES BASIN CHAPTER	03/24/2021	\$300.00
00670093	V01093	INTERNAL REVENUE SERVICE	03/24/2021	\$51.50
00670094	V00531	IRV SEAVER MOTORCYCLES	03/24/2021	\$341.69
00670095	V01812	J & K WELDING	03/24/2021	\$225.00
00670096	V00717	J & M SERVICE, INC	03/24/2021	\$673.49

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Between Mar 18, 2021 and Mar 24, 2021

Report Generated on Apr 5, 2021 11:09:48 AM

Page 4

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00670097	V00283	JIG CONSULTANTS	03/24/2021	\$22,450.75
00670098	V02627	JOE LY	03/24/2021	\$164.00
00670099	V00724	KLEINFELDER WEST, INC	03/24/2021	\$5,574.39
00670100	V00725	KNORR SYSTEMS, INC	03/24/2021	\$309.36
00670101	V00220	LABSOURCE, INC	03/24/2021	\$3,798.33
00670102	V00435	LANGUAGE LINE SERVICES	03/24/2021	\$210.56
00670103	V00728	LAWSON PRODUCTS, INC	03/24/2021	\$1,129.10
00670104	OTV001215	MARIO LEDESMA	03/24/2021	\$2,697.00
00670105	V00299	LOOPNET	03/24/2021	\$237.50
00670106	V00610	LT PROPERTIES	03/24/2021	\$17,460.70
00670107	V01411	MAGNUM OIL SPREADING, INC	03/24/2021	\$1,526.85
00670108	V01570	MEEDER PUBLIC FUNDS, INC	03/24/2021	\$6,000.00
00670109	V00219	NAHRO	03/24/2021	\$3,608.98
00670110	V00557	NATIONAL CONSTRUCTION RENTALS	03/24/2021	\$1,652.81
00670111	V02563	NELSON CHAVEZ CONSTRUCTION INC	03/24/2021	\$5,900.00
00670112	V00551	OC HOUSING AUTHORITY	03/24/2021	\$1,050.00
00670113	V00747	OCEAN BLUE ENVIRONMENTAL SERVICES, INC	03/24/2021	\$2,268.64
00670114	V02682	OFFICE CHAIR AT WORK	03/24/2021	\$399.00
00670115	V00371	OFFICE DEPOT, INC	03/24/2021	\$2,082.03
00670116	V00598	PARKWOOD LANDSCAPE MAINTENANCE, INC	03/24/2021	\$1,538.00
00670117	V00010	PLUMBERS DEPOT, INC	03/24/2021	\$2,988.51
00670118	V00045	PRIMARY & MULTI-SPECIALTY CLINICS OF ANAHEIM	03/24/2021	\$120.00
00670119	V00396	RADI'S CUSTOM UPHOLSTER	03/24/2021	\$1,175.00
00670120	V00850	SAFARILAND, LLC	03/24/2021	\$448.78
00670121	V01139	SBSD-EVOC TRAINING CENTER	03/24/2021	\$1,500.00
00670122	V00159	SCOTT EQUIPMENT	03/24/2021	\$401.81
00670123	V01434	SIMON PETTROW	03/24/2021	\$2,036.48
00670124	V00358	SO CAL INDUSTRIES	03/24/2021	\$1,523.15
00670125	V01415	SOCAL AUTO & TRUCK PARTS INC	03/24/2021	\$3,551.17
00670126	V01442	SOCIALWISE CONSULTING, LLC	03/24/2021	\$2,475.00
00670127	V01071	SOURCE GRAPHICS	03/24/2021	\$5,340.69
00670128	V00367	SOUTHERN COMPUTER WAREHOUSE	03/24/2021	\$1,101.86
00670129	V00474	SOUTHERN COUNTIES LUBRICANTS, LLC	03/24/2021	\$4,196.45
00670130	V00364	SUNBELT RENTALS	03/24/2021	\$2,934.24
00670131	V00228	SUPERION, LLC	03/24/2021	\$2,100.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Between Mar 18, 2021 and Mar 24, 2021

Report Generated on Apr 5, 2021 11:09:48 AM

Page 5

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00670132	V02629	TARTAN ASSOCIATES	03/24/2021	\$4,998.75
00670133	V00287	THE FILE DEPOT BEACH CITIES	03/24/2021	\$216.00
00670134	V00212	THE SHERWIN-WILLIAMS CO	03/24/2021	\$307.60
00670135	V00347	THOMAS PLUMBING CO MILLER, THOMAS E	03/24/2021	\$807.90
00670136	V00512	TIME CLOCK SALES & SERVICE CO, INC	03/24/2021	\$256.00
00670137	V01206	TOPAZ ALARM CORP	03/24/2021	\$60.00
00670138	V02396	KIMBERLY C TURNER	03/24/2021	\$250.00
00670139	V00811	UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA	03/24/2021	\$365.54
00670140	V00814	UNITED PARCEL SERVICE	03/24/2021	\$15.01
00670141	V00501	US BEHAVIORAL HEALTH PLAN, CA	03/24/2021	\$1,414.00
00670142	V00301	USA BLUE BOOK	03/24/2021	\$2,323.71
00670143	V00823	WATERLINE TECHNOLOGIES, INC	03/24/2021	\$195.84
00670144	V00828	WEST COAST SAND & GRAVEL	03/24/2021	\$1,767.13
			EFT: 16	\$73,545.99
			Check: 136	\$8,674,450.97
			Total: 152	\$8,747,996.96



City of Garden Grove
Certificate of Warrants
Register Dates:
03/31/2021

This is to certify the demands covered by Wire numbers 00000432 through 00000442, by EFT numbers 00008888 through 00008896, and check numbers 00670145 through 00670218 inclusive as listed on this register and have been verified by the Finance Division as properly issued and bear all proper signatures.

A handwritten signature in blue ink, likely belonging to Patricia Song, the Finance Director.

Finance Director
Patricia Song

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Between Mar 25, 2021 and Mar 31, 2021

Report Generated on Apr 4, 2021 5:59:16 PM

Page 1

AP - Checking Account

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00000432	V00813	UNION BANK	03/31/2021	\$490.50
00000433	V00813	UNION BANK	03/31/2021	\$364.15
00000434	V00813	UNION BANK	03/31/2021	\$872.43
00000435	V00813	UNION BANK	03/31/2021	\$545.92
00000436	V00813	UNION BANK	03/31/2021	\$492.61
00000437	V00813	UNION BANK	03/31/2021	\$185.68
00000438	V00813	UNION BANK	03/31/2021	\$80.78
00000439	V00813	UNION BANK	03/31/2021	\$545.52
00000440	V00813	UNION BANK	03/31/2021	\$130.00
00000441	V00813	UNION BANK	03/31/2021	\$10.00
00000442	V00813	UNION BANK	03/31/2021	\$312.23
00008888	V00523	BPS SUPPLY GROUP	03/31/2021	\$283.02
00008889	V01362	DAVEY RESOURCE GROUP, INC	03/31/2021	\$2,700.00
00008890	V00281	DAVIS FARR, LLP	03/31/2021	\$34,650.00
00008891	V00562	DOOLEY ENTERPRISES, INC	03/31/2021	\$13,425.65
00008892	V00305	EVIDENT CRIME SCENE PRODUCTS	03/31/2021	\$136.73
00008893	V00218	GRAINGER	03/31/2021	\$9,053.95
00008894	V00368	JOHNSON CONTROLS SECURITY SOLUTIONS	03/31/2021	\$70.63
00008895	V00722	KEYSER/MARSTON ASSOCIATES, INC	03/31/2021	\$5,805.00
00008896	V01474	WEX BANK	03/31/2021	\$1,550.32
00670145	V00627	AKM CONSULTING ENGINEERS	03/31/2021	\$1,620.00
00670146	V00573	ALAN'S LAWN AND GARDEN CENTER, INC	03/31/2021	\$28.19
00670147	V00635	ALL CITY MANAGEMENT SERVICES, INC	03/31/2021	\$5,895.70
00670148	V00895	ALZHEIMER'S ORANGE COUNTY	03/31/2021	\$1,000.00
00670149	V00479	ANDRES MEDINA MOBILE WASH	03/31/2021	\$1,997.50
00670150	V02328	APPLEONE EMPLOYMENT SERVICES	03/31/2021	\$1,421.28
00670151	V00864	ASSOCIATED SOILS ENGINEERING, INC	03/31/2021	\$1,360.00
00670152	V00433	BATTERY SYSTEMS, INC	03/31/2021	\$624.03
00670153	OTV001217	KYM BOHLING	03/31/2021	\$1,000.00
00670154	V02612	CALIFORNIA CLEAN ENERGY, CLEAN ENERGY OF CA INC, C	03/31/2021	\$98.13
00670155	V01036	CITIBANK %CITIGROUP	03/31/2021	\$3,696.40
00670156	V00689	CITY OF GARDEN GROVE	03/31/2021	\$169.69
00670157	V00714	CITY OF HUNTINGTON BEACH	03/31/2021	\$2,604.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Between Mar 25, 2021 and Mar 31, 2021

Report Generated on Apr 4, 2021 5:59:16 PM

Page 2

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00670158	V00596	CLEANSTREET	03/31/2021	\$2,860.80
00670159	V00428	CLEARs	03/31/2021	\$50.00
00670160	V00666	COMMUNITY VETERINARY HOSPITAL INC	03/31/2021	\$3,125.00
00670161	V01529	CORE-ROSION PRODUCTS	03/31/2021	\$1,467.50
00670162	V01876	COUNTY OF ORANGE	03/31/2021	\$224,000.00
00670163	V02040	CPRS NPSI	03/31/2021	\$570.00
00670164	V00978	CUMMINS CAL PACIFIC, INC	03/31/2021	\$65.34
00670165	V00481	DATA TICKET, INC	03/31/2021	\$0.50
00670166	V02645	DAYS INN AND SUITES	03/31/2021	\$6,000.00
00670167	V01183	DEPARTMENT OF JUSTICE	03/31/2021	\$32.00
00670168	V01089	DISPENSING TECHNOLOGY CORP	03/31/2021	\$5,690.58
00670169	V00682	EWING IRRIGATION PRODUCTS, INC	03/31/2021	\$1,194.13
00670170	V00336	EXCLUSIVE AUTO DETAIL	03/31/2021	\$936.00
00670171	V00233	FACTORY MOTOR PARTS CO BIN 139107	03/31/2021	\$439.15
00670172	V00114	FUN EXPRESS, INC	03/31/2021	\$621.27
00670173	V00054	GALLS LLC	03/31/2021	\$487.21
00670174	V00526	GANAHL LUMBER COMPANY	03/31/2021	\$641.93
00670175	V00140	GARDEN GROVE SECURED STORAGE	03/31/2021	\$2,754.00
00670176	V01318	GEORGE YARDLEY COMPANY	03/31/2021	\$315.62
00670177	V01224	GGTPC	03/31/2021	\$100,000.00
00670178	V00708	HARBOR POINTE A/C & CONTROL SYSTEMS, INC	03/31/2021	\$18,978.25
00670179	V00544	HARRINGTON INDUSTRIAL PLASTICS, LLC	03/31/2021	\$327.23
00670180	V00711	HILL'S BROS LOCK & SAFE, INC	03/31/2021	\$542.80
00670181	OTV001223	HOLLIE HUYNH OD, INC	03/31/2021	\$100.00
00670182	V00351	ALEXANDER ISERI	03/31/2021	\$210.00
00670183	V02679	KEITH AHN INSURANCE AGENCY, INC.	03/31/2021	\$1,500.00
00670184	OTV001222	VINCE LE	03/31/2021	\$174.37
00670185	V00402	LEXISNEXIS RISK SOLUTIONS ACCOUNT #1008503	03/31/2021	\$295.25
00670186	V02211	LORNA GG LLC	03/31/2021	\$4,250.00
00670187	V02687	MUELA, CECILIA	03/31/2021	\$550.00
00670188	V01253	NATEC INTERNATIONAL, INC	03/31/2021	\$125.00
00670189	OTV001220	PAUL NGUYEN	03/31/2021	\$243.20
00670190	OTV001216	NRI PORTFOLIOS, LLC	03/31/2021	\$2,000.00
00670191	V00371	OFFICE DEPOT, INC	03/31/2021	\$4,135.37
00670192	V01530	ORANGE COUNTY SANITATION DIST, INC	03/31/2021	\$12,623.76

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Between Mar 25, 2021 and Mar 31, 2021

Report Generated on Apr 4, 2021 5:59:16 PM

Page 3

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00670193	OTV001219	PRESTIGE ROOFING	03/31/2021	\$195.99
00670194	V00744	R J NOBLE COMPANY	03/31/2021	\$569,514.29
00670195	V02613	R.S. HUGHES COMPANY INC	03/31/2021	\$1,435.50
00670196	V00652	RUSSELL SIGLER, INC	03/31/2021	\$415.96
00670197	V01497	SC SIGNS & SUPPLIES LLC	03/31/2021	\$4,942.69
00670198	V02159	SIR SPEEDY PRINTING	03/31/2021	\$3,818.38
00670199	V00867	SOUTHWEST SUN SOLAR, INC	03/31/2021	\$301.60
00670200	V01119	STANDARD INSURANCE CO RAS EXECUTIVE BENEFITS	03/31/2021	\$821.70
00670201	V01199	STANDARD INSURANCE COMPANY 00 643061 0001	03/31/2021	\$21,924.56
00670202	V00570	STRADLING, YOCCA,CARLSON & RAUTH	03/31/2021	\$42,654.00
00670203	V02258	TAIT & ASSOCIATES	03/31/2021	\$3,368.51
00670204	V01389	THE HOME DEPOT PRO	03/31/2021	\$3,011.97
00670205	V02311	THE VINTAGE 1979/HELEN VO LLC	03/31/2021	\$1,500.00
00670206	OTV001221	TOP NOTCH ROOF	03/31/2021	\$206.81
00670207	OTV001218	TU TRAN	03/31/2021	\$74.32
00670208	V02358	UNIVERSAL WASTE SYSTEMS	03/31/2021	\$1,166.80
00670209	V00301	USA BLUE BOOK	03/31/2021	\$420.74
00670210	V01625	UTILITY CRANE & EQUIPMENT, INC	03/31/2021	\$177.00
00670211	V00527	WALTERS WHOLESALE ELECTRIC	03/31/2021	\$987.52
00670212	V01285	WARD A GLASBY, INC GLASBY MAINTENANCE SUPPLY	03/31/2021	\$1,183.20
00670213	V00823	WATERLINE TECHNOLOGIES, INC	03/31/2021	\$3,988.80
00670214	V01731	WILLDAN ENGINEERING	03/31/2021	\$260.00
00670215	V00582	WOODRUFF, SPRADLIN & SMART, A PROFESSIONAL CORP	03/31/2021	\$635.10
00670216	V00039	XEROX CORPORATION	03/31/2021	\$5,785.20
00670217	V00115	YORBA LINDA FEED STORE, INC	03/31/2021	\$112.00
00670218	V01117	ZAP MANUFACTURING, INC	03/31/2021	\$905.10

EFT:	9	\$67,675.30
Check:	85	\$1,092,658.74
Total:	94	\$1,160,334.04



City of Garden Grove
Certificate of Warrants
Register Dates:
04/01/2021

This is to certify the demands covered by EFT numbers 00008897 through 00009833, and check numbers 00670219 through 00670416 inclusive as listed on this register and have been verified by the Finance Division as properly issued and bear all proper signatures.

A handwritten signature in blue ink, likely belonging to Patricia Song, the Finance Director.

Finance Director
Patricia Song

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 1

AP - Checking Account

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00008897	H0951	12392 TO 12432 GROVEVIEW	04/01/2021	\$710.00
00008898	H3409	12911 GALWAY ST, LLC	04/01/2021	\$4,222.00
00008899	H3297	13251 NEWLAND, LLC	04/01/2021	\$12,218.00
00008900	H00063	13392 MAGNOLIA STREET LLC C/O TREEWATER MANAGEMENT	04/01/2021	\$336.00
00008901	H4567	15915 LA FORGE ST WHITTIER, LLC	04/01/2021	\$1,721.00
00008902	H3906	19822 BROOKHURST, LLC	04/01/2021	\$2,515.00
00008903	H2617	2300 W EL SEGUNDO, LP	04/01/2021	\$10,812.00
00008904	H4149	2555 WEST WINSTON ROAD, LP PEBBLE COVE APARTMENTS	04/01/2021	\$1,331.00
00008905	H4791	606 SOUTH 6TH ST ASSOCIATES, LP	04/01/2021	\$6,888.00
00008906	H2483	7632 21ST ST, LP	04/01/2021	\$5,229.00
00008907	H2971	8080 BEVER PLACE-NEGBA, LLC	04/01/2021	\$1,500.00
00008908	H4654	8572 STANFORD, LLC	04/01/2021	\$1,131.00
00008909	H1044	ABCO CROWN VILLA,LTD	04/01/2021	\$1,918.00
00008910	H3560	ACACIA VILLAGE	04/01/2021	\$23,548.00
00008911	H9002	ACACIAN APTS	04/01/2021	\$39,740.00
00008912	H4389	ADRIATIC APTS	04/01/2021	\$993.00
00008913	H3401	AEGEAN APARTMENTS	04/01/2021	\$7,125.00
00008914	H4741	PARVIZ ALAI	04/01/2021	\$4,726.00
00008915	H00033	ALEXANY NGUYEN PROPERTIES, LLC	04/01/2021	\$1,351.00
00008916	H3512	ALFRED P VU & JULIE NGA HO, LLC	04/01/2021	\$2,955.00
00008917	H1684	REHANA ALIBULLA	04/01/2021	\$1,996.00
00008918	H4121	ALLARD APARTMENT, LLC	04/01/2021	\$5,298.00
00008919	H3645	LYNN KATHLEEN ALLEN	04/01/2021	\$1,203.00
00008920	H2454	ALTEZA,INC	04/01/2021	\$1,926.00
00008921	H4668	AMCAL OCEANA FUND, LP OCEANA APARTMENTS	04/01/2021	\$1,771.00
00008922	H2489	AMERICAN FAMILY HOUSING	04/01/2021	\$1,144.00
00008923	H00101	JESSE AMEZCUA	04/01/2021	\$2,174.00
00008924	H00093	SALMAN M AMIR	04/01/2021	\$1,837.00
00008925	H2938	ANAHEIM SUNSET PLAZA APTS	04/01/2021	\$7,075.00
00008926	H4371	CHUNG NAN AOU	04/01/2021	\$949.00
00008927	H4254	ARBOR VILLAS, LLC	04/01/2021	\$1,359.00
00008928	H00048	JESSIE WONG ARIAS	04/01/2021	\$1,751.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 2

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00008929	H4027	TIMOTEO ARJON	04/01/2021	\$1,280.00
00008930	H4729	ARTESIA BOULEVARD 44, LLC	04/01/2021	\$1,950.00
00008931	H3930	EIDA A ATTIA	04/01/2021	\$1,658.00
00008932	H4272	PAUL AUDUONG	04/01/2021	\$1,107.00
00008933	H4532	AUGUSTA GROUP INVESTMENTS INC	04/01/2021	\$1,423.00
00008934	H00084	AVANATH GROVE LP	04/01/2021	\$43,048.00
00008935	H2062	AYNEM INVESTMENTS, LP	04/01/2021	\$15,679.00
00008936	H4505	BACH & JASON NGUYEN INVESTMENT LLC	04/01/2021	\$1,492.00
00008937	H4295	BAKER RANCH AFFORDABLE, LP	04/01/2021	\$1,770.00
00008938	H4403	HA BANH	04/01/2021	\$1,405.00
00008939	H2370	BARRY SAYWITZ PROP TWO, LP	04/01/2021	\$4,994.00
00008940	H4777	BDA INVESTMENTS, LLC	04/01/2021	\$1,130.00
00008941	H00092	BEACH BOULEVARD COTTAGES LLC	04/01/2021	\$395.00
00008942	H4797	BEACH CREEK PARTNERS II, LP	04/01/2021	\$1,331.00
00008943	H4735	BEACHWOOD VILLAGE APARTMENTS	04/01/2021	\$1,255.00
00008944	H4368	BEHRENS PROPERTIES, LLC	04/01/2021	\$967.00
00008945	H3168	BELAGE PRESERVATION, LP	04/01/2021	\$2,107.00
00008946	H3365	JAIME OR MAGALI BERTRAN	04/01/2021	\$1,392.00
00008947	H3115	ANIL BHALANI	04/01/2021	\$1,182.00
00008948	H0645	N C BHATT	04/01/2021	\$4,527.00
00008949	H4746	BMN INVESTMENTS, INC	04/01/2021	\$2,482.00
00008950	H3966	ADEL A BOUTROS	04/01/2021	\$1,449.00
00008951	H4331	BOWEN PROPERTY, LLC	04/01/2021	\$1,399.00
00008952	H0231	MAI BOZARJIAN	04/01/2021	\$20,248.00
00008953	H4085	MAI BOZARJIAN	04/01/2021	\$3,785.00
00008954	H4399	BRIAR CREST / ROSE CREST	04/01/2021	\$2,962.00
00008955	H4784	BRIDGE WF CRYSTAL VIEW AGP, LLC	04/01/2021	\$3,640.00
00008956	H0968	SHARON OR NORMAN BROWN	04/01/2021	\$3,437.00
00008957	H4088	BACH BUI	04/01/2021	\$1,049.00
00008958	H4656	DANIEL D BUI	04/01/2021	\$1,954.00
00008959	H3590	DUNG BUI	04/01/2021	\$623.00
00008960	H3898	KIMBERLY BUI	04/01/2021	\$3,041.00
00008961	H4699	KIMLOAN THI BUI	04/01/2021	\$1,059.00
00008962	H1770	LAI BUI	04/01/2021	\$1,122.00
00008963	H4664	LONG BUI	04/01/2021	\$1,319.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 3

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00008964	H0276	MINH Q BUI	04/01/2021	\$4,039.00
00008965	H3322	MONICA BUI	04/01/2021	\$2,820.00
00008966	H1510	NGA HUYNH BUI	04/01/2021	\$1,100.00
00008967	H4215	SON VAN BUI	04/01/2021	\$2,050.00
00008968	H4779	TAM BUI	04/01/2021	\$866.00
00008969	H4760	THINH BUI	04/01/2021	\$2,589.00
00008970	H4108	THUAN BUI	04/01/2021	\$4,404.00
00008971	H4075	TRiet THO-MINH BUI	04/01/2021	\$1,708.00
00008972	H3524	DAVID M BURLEY	04/01/2021	\$1,586.00
00008973	H2916	THU T CAI-NGUYEN	04/01/2021	\$145.00
00008974	H3272	CAMBRIDGE HEIGHTS, LP	04/01/2021	\$2,337.00
00008975	H2159	HUONG B CAO	04/01/2021	\$639.00
00008976	H4457	MYTRANG CAO	04/01/2021	\$893.00
00008977	H2856	PHUOC GIA CAO	04/01/2021	\$2,425.00
00008978	H4524	CASA MADRID	04/01/2021	\$4,540.00
00008979	H4073	CASCADE TERRACE APARTMENTS	04/01/2021	\$4,782.00
00008980	H4689	DAVID G CASCINO	04/01/2021	\$1,884.00
00008981	H3904	KOU LEAN CHAN	04/01/2021	\$909.00
00008982	H4135	CHIEN CHAN,MIN OR TRAN	04/01/2021	\$2,791.00
00008983	H1229	EVELYN CHANG	04/01/2021	\$2,865.00
00008984	H9008	SHERRI CHANG	04/01/2021	\$1,794.00
00008985	H1368	CHARLESTON GARDENS, LLC	04/01/2021	\$1,270.00
00008986	H1239	CHATHAM VILLAGE APTS	04/01/2021	\$4,868.00
00008987	H3494	ALICE CHAU	04/01/2021	\$2,505.00
00008988	H4714	KENNY CHAU	04/01/2021	\$1,544.00
00008989	H3757	DENNIS KYINSAN CHEN	04/01/2021	\$5,215.00
00008990	H1362	SHIAO-YUNG CHEN	04/01/2021	\$6,100.00
00008991	H9010	T C CHEN	04/01/2021	\$29,241.00
00008992	H1788	STEPHEN CHEUNG	04/01/2021	\$1,454.00
00008993	H3094	PAUL M CHEY	04/01/2021	\$3,146.00
00008994	H4707	NARITH CHHUM	04/01/2021	\$1,701.00
00008995	H0317	LI-YONG CHIANG	04/01/2021	\$1,653.00
00008996	H0159	DON J G CHONG	04/01/2021	\$5,833.00
00008997	H1946	JOHN CHUN	04/01/2021	\$1,131.00
00008998	H9011	KYU B CHUNG	04/01/2021	\$5,315.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 4

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00008999	H4444	CITRUS GROVE, LP	04/01/2021	\$834.00
00009000	H3246	KATHLEEN P CLIFTON	04/01/2021	\$1,292.00
00009001	H4785	CM 2080 NEW, LLC	04/01/2021	\$1,174.00
00009002	H0776	PONCH CO	04/01/2021	\$1,101.00
00009003	H3137	KATHY D COLACION	04/01/2021	\$2,218.00
00009004	H4337	COMMUNITY GARDENS PARTNERS, LP	04/01/2021	\$5,334.00
00009005	H3359	NORMA S CONCEPCION	04/01/2021	\$1,288.00
00009006	H2193	CONCORD MGMT, LLC	04/01/2021	\$1,011.00
00009007	H3752	CONNOR PINES, LLC	04/01/2021	\$14,620.00
00009008	H0642	CONTINENTAL GARDENS APTS	04/01/2021	\$11,339.00
00009009	H1134	CONTINENTAL GARDENS APTS	04/01/2021	\$4,511.00
00009010	H00080	COUNTRY SQUIRE TUSTIN LLC	04/01/2021	\$968.00
00009011	H0039	COURTYARD VILLAS	04/01/2021	\$7,950.00
00009012	H4626	CYNTHIA COY, CHRISTINE OR FREEMAN	04/01/2021	\$1,445.00
00009013	H4556	CST CAPITAL, LLC	04/01/2021	\$1,546.00
00009014	H4686	CTC INVESTMENT GROUP, INC	04/01/2021	\$484.00
00009015	H0017	KHANH CUNG	04/01/2021	\$3,384.00
00009016	H3376	CURTIS FAMILY TRUST	04/01/2021	\$1,454.00
00009017	H4659	D1 SENIOR IRVINE HOUSING PARTNERS, LP	04/01/2021	\$1,285.00
00009018	H2985	NGHIA HO OR PHAN VE TU DAC	04/01/2021	\$4,231.00
00009019	H4646	HUONG NGOC DAI	04/01/2021	\$1,459.00
00009020	H00082	DAISY APARTMENT HOMES LLC	04/01/2021	\$2,215.00
00009021	H2100	BINH DINH DAM	04/01/2021	\$1,360.00
00009022	H3947	ANNIE DANG	04/01/2021	\$1,820.00
00009023	H3369	CHINH VAN DANG	04/01/2021	\$1,442.00
00009024	H4561	MIKE M DANG	04/01/2021	\$2,270.00
00009025	H3065	DAVID DANG	04/01/2021	\$1,789.00
00009026	H4598	THANH-THUY THI DANG	04/01/2021	\$1,029.00
00009027	H1895	JOSEPH N DAO	04/01/2021	\$1,287.00
00009028	H4303	MINH DAO	04/01/2021	\$841.00
00009029	H1245	NELSON NGUYEN DAO	04/01/2021	\$4,188.00
00009030	H1750	TRU DAO	04/01/2021	\$3,615.00
00009031	H2184	TU VAN DAO	04/01/2021	\$727.00
00009032	H9413	TU VAN DAO	04/01/2021	\$1,132.00
00009033	H3021	NGOC-THUY DAO	04/01/2021	\$1,526.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 5

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009034	H1802	LUONG-NGUYEN DAO-PHAM, LOC THI OR PHAM	04/01/2021	\$2,519.00
00009035	H4239	RICHARD DAVIS	04/01/2021	\$1,324.00
00009036	H3054	SON OR MICHELLE DAVIS	04/01/2021	\$1,150.00
00009037	H4607	DE ANZA PLAZA APTS II	04/01/2021	\$1,625.00
00009038	H4071	DEERING II FAMILY, LP	04/01/2021	\$1,032.00
00009039	H3626	CLARA J DEWYER	04/01/2021	\$1,103.00
00009040	H4583	HOI TUAN DIEP	04/01/2021	\$1,386.00
00009041	H3483	CHINH DINH	04/01/2021	\$2,251.00
00009042	H2147	HANH DINH	04/01/2021	\$2,100.00
00009043	H4223	KATHLEEN DINH	04/01/2021	\$1,522.00
00009044	H4614	KATHY DINH	04/01/2021	\$2,489.00
00009045	H1479	KIM DINH	04/01/2021	\$2,412.00
00009046	H4373	LAN THAI DINH	04/01/2021	\$6,395.00
00009047	H3629	LONG T DINH	04/01/2021	\$3,560.00
00009048	H4372	NHU Y DINH	04/01/2021	\$1,256.00
00009049	H4406	THU V DINH	04/01/2021	\$387.00
00009050	H4594	TUAN DINH	04/01/2021	\$1,602.00
00009051	H4619	Y NHA DINH	04/01/2021	\$2,615.00
00009052	H2769	THANH DINH	04/01/2021	\$1,690.00
00009053	H3284	DNK PROPERTY, LLC	04/01/2021	\$15,950.00
00009054	H4498	BRANDON BINH DO	04/01/2021	\$2,323.00
00009055	H4717	BYRON DO	04/01/2021	\$2,641.00
00009056	H4718	DAITRANG DO	04/01/2021	\$2,900.00
00009057	H4418	DOMINIC HAU DO	04/01/2021	\$1,314.00
00009058	H4544	JONATHAN DO	04/01/2021	\$446.00
00009059	H1867	MINH C DO	04/01/2021	\$4,738.00
00009060	H4450	MY-PHUONG DO	04/01/2021	\$1,375.00
00009061	H1674	NANCY DO	04/01/2021	\$1,043.00
00009062	H4802	NGA N DO	04/01/2021	\$2,661.00
00009063	H3593	THUY THI DO	04/01/2021	\$1,234.00
00009064	H3181	TIM DO	04/01/2021	\$996.00
00009065	H3671	TINA DO	04/01/2021	\$1,359.00
00009066	H9016	TINA DO	04/01/2021	\$3,328.00
00009067	H3732	XUYEN THI DO	04/01/2021	\$1,164.00
00009068	H0580	HARRY DOAN	04/01/2021	\$666.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 6

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009069	H4639	HIEP THI DOAN	04/01/2021	\$4,224.00
00009070	H4808	HUEY G DOAN	04/01/2021	\$3,558.00
00009071	H3999	HUY DOAN	04/01/2021	\$503.00
00009072	H4289	HUY DOAN	04/01/2021	\$1,257.00
00009073	H4420	KYLAM DOAN	04/01/2021	\$1,626.00
00009074	H3980	NHA & JOANNE TRANG VU DOAN	04/01/2021	\$1,637.00
00009075	H3855	PHUONGNGA THI DOAN	04/01/2021	\$2,308.00
00009076	H4615	THANH QUE DOAN	04/01/2021	\$1,643.00
00009077	H4228	WILLIAM D DOHANH	04/01/2021	\$2,068.00
00009078	H2424	JERRY DOIDGE	04/01/2021	\$1,363.00
00009079	H3382	DOLCE VITA INVESTMENTS, LLC	04/01/2021	\$5,502.00
00009080	H1744	MINH TRANG DONG	04/01/2021	\$1,063.00
00009081	H2945	DORADO SENIOR APARTMENTS, LP	04/01/2021	\$2,072.00
00009082	H4413	WILLIAM A DOWD III	04/01/2021	\$1,117.00
00009083	H3228	DSN INVESTMENT GROUP, LLC	04/01/2021	\$6,660.00
00009084	H3510	DTP INVESTMENTS, LLC	04/01/2021	\$3,112.00
00009085	H4464	CHRISTINE H DU	04/01/2021	\$1,154.00
00009086	H4050	DUCATO GARDENS, LLC	04/01/2021	\$846.00
00009087	H00061	DULILEON NINE LLC	04/01/2021	\$1,518.00
00009088	H1385	DAVID C DUNN	04/01/2021	\$2,780.00
00009089	H9021	DAVID F DUNNETT	04/01/2021	\$2,647.00
00009090	H3866	HONG MANH DUONG	04/01/2021	\$1,028.00
00009091	H1885	MINH B DUONG	04/01/2021	\$5,389.00
00009092	H3688	THAI VAN DUONG	04/01/2021	\$1,447.00
00009093	H00081	TIFFANY DUONG	04/01/2021	\$1,068.00
00009094	H3087	CHI THI DUONG	04/01/2021	\$2,000.00
00009095	H2869	HUNG Q DUONG	04/01/2021	\$1,232.00
00009096	H2781	GLADYS DYO	04/01/2021	\$585.00
00009097	H00091	E-Z HOUSING GROUP LLC	04/01/2021	\$1,407.00
00009098	H2422	EASTWIND PROPERTIES, LLC	04/01/2021	\$2,606.00
00009099	H4770	EBL, LLC	04/01/2021	\$4,765.00
00009100	H2036	DANIEL T EDLUND	04/01/2021	\$1,572.00
00009101	H9025	GERALD EHLE	04/01/2021	\$1,954.00
00009102	H4250	EL PUEBLO APTS	04/01/2021	\$1,340.00
00009103	H4294	EL RAY PARTNERS, LLC	04/01/2021	\$7,829.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 7

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009104	H4438	ELIAS CAPITAL GROUP, LLC	04/01/2021	\$2,673.00
00009105	H4048	EMERALD COURT APARTMENTS	04/01/2021	\$210.00
00009106	H4234	TERRY C ENGEL	04/01/2021	\$995.00
00009107	H3299	EVERGREEN ESTATE EXPANSION, LLC	04/01/2021	\$7,078.00
00009108	H00030	FAIRECREST REAL ESTATE, LLC	04/01/2021	\$1,328.00
00009109	H1553	FAIRVIEW MGMT COMPANY	04/01/2021	\$2,578.00
00009110	H5769	BOONE FAN	04/01/2021	\$2,521.00
00009111	H3034	FBC APARTMENTS	04/01/2021	\$865.00
00009112	H4757	FG GOLDENWEST SENIOR APTS, LP	04/01/2021	\$12,369.00
00009113	H1702	FLOYD H FIELDS	04/01/2021	\$1,180.00
00009114	H1689	WENDY FINCH	04/01/2021	\$986.00
00009115	H00049	FIVE POINTS HOUSING LP	04/01/2021	\$2,455.00
00009116	H3329	FOREVERGREEN EXPANSION, LLC	04/01/2021	\$4,001.00
00009117	H2834	FOUNTAIN GLEN AT ANAHEIM HILLS	04/01/2021	\$1,431.00
00009118	H00051	FOUR SEASON 339 LLC	04/01/2021	\$1,184.00
00009119	H7410	FRANCISCAN GARDENS APTS	04/01/2021	\$23,889.00
00009120	H2569	WILLIAM FRECHTMAN	04/01/2021	\$1,328.00
00009121	H4610	FREEDOMPATH PROPERTIES, LLC	04/01/2021	\$1,309.00
00009122	H3691	FU CRAIG FA, LLC	04/01/2021	\$4,854.00
00009123	H2215	KARL GANZ	04/01/2021	\$1,010.00
00009124	H3384	ALBINO GARCIA	04/01/2021	\$2,714.00
00009125	H4412	NORMA OR WILLIAM GARCIA	04/01/2021	\$1,297.00
00009126	V00694	GARDEN GROVE HOUSING AUTHORITY-ESCROW ACCT	04/01/2021	\$6,619.00
00009127	H4275	GARDEN GROVE HOUSING ASSOCIATE	04/01/2021	\$2,992.00
00009128	H2029	GEORGIAN APTS	04/01/2021	\$1,107.00
00009129	H4137	AARON & CASSANDRA GERMAIN	04/01/2021	\$1,276.00
00009130	H00112	GG8662 LLC C/O DEKKO PROPERTIES LLC	04/01/2021	\$2,467.00
00009131	H3857	GIA VU, INC	04/01/2021	\$950.00
00009132	H4037	BRIGITTE GIACALONE	04/01/2021	\$979.00
00009133	H4742	GIERS WELLS PARTNERSHIP	04/01/2021	\$2,061.00
00009134	H3894	GIGI APARTMENTS	04/01/2021	\$1,961.00
00009135	H4046	GLENHAVEN MOBILODGE	04/01/2021	\$535.00
00009136	H4346	HENRY S GOMEZ	04/01/2021	\$1,282.00
00009137	H2737	WILLIAM GREEN	04/01/2021	\$1,199.00
00009138	H3833	GREENFIELDSDIE, LLC	04/01/2021	\$2,614.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 8

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009139	H3639	GROVE PARK LP	04/01/2021	\$75,262.00
00009140	H9028	JIM GULMESOFF	04/01/2021	\$6,536.00
00009141	H4437	TIMOTHY M GUSTIN	04/01/2021	\$699.00
00009142	H3949	GINA GUYUMJYAN	04/01/2021	\$3,221.00
00009143	H4172	HA OF DEKALB COUNTY	04/01/2021	\$671.73
00009144	H4692	CASIE HA	04/01/2021	\$2,401.00
00009145	H4092	DAC T HA	04/01/2021	\$1,324.00
00009146	H1824	KHIEM Q HA	04/01/2021	\$1,094.00
00009147	H4562	TRAN D HA	04/01/2021	\$3,276.00
00009148	H3735	TRiet M HA	04/01/2021	\$1,197.00
00009149	H00096	HSIAO HUNG HAH	04/01/2021	\$1,136.00
00009150	H0550	HALL & ASSOCIATES, INC	04/01/2021	\$4,242.00
00009151	H1969	LINDA HAN	04/01/2021	\$1,928.00
00009152	H5208	CLIFTON & BRENDA HANSON	04/01/2021	\$2,091.00
00009153	H3838	STEVEN HAU	04/01/2021	\$1,801.00
00009154	H2955	HERITAGE PARK	04/01/2021	\$3,758.00
00009155	H0515	HERITAGE VILLAGE ANAHEIM	04/01/2021	\$1,440.00
00009156	H4708	HIGHLAND FINANCE INVESTMENTS CORP	04/01/2021	\$1,424.00
00009157	H0250	SHERRY OR RICHARD HILLIARD	04/01/2021	\$1,770.00
00009158	H3921	HMZ RESIDENTIAL PARK, LP	04/01/2021	\$1,881.00
00009159	H3255	HENRY HOI HO	04/01/2021	\$1,885.00
00009160	H1010	HO, HIEP or DAO, NGOC THUY	04/01/2021	\$5,257.00
00009161	H3941	KEVIN TRIEU HO	04/01/2021	\$2,086.00
00009162	H3653	LIEN KIM HO	04/01/2021	\$1,539.00
00009163	H3781	PAULINE HO	04/01/2021	\$2,531.00
00009164	H4827	PETER HO	04/01/2021	\$1,291.00
00009165	H3984	LONG HOANG	04/01/2021	\$1,553.00
00009166	H4783	THINH HOANG	04/01/2021	\$1,850.00
00009167	H4224	TRACY HOANG	04/01/2021	\$1,091.00
00009168	H2354	TRIEU HOANG	04/01/2021	\$1,530.00
00009169	H4542	TUAN HOANG	04/01/2021	\$2,038.00
00009170	H2662	LANG HOANG	04/01/2021	\$1,460.00
00009171	H2974	NHAN TIEN HOANG	04/01/2021	\$1,205.00
00009172	H3883	ROSEMARY LC HOLTZMAN	04/01/2021	\$888.00
00009173	H1120	SALLY HOPPE	04/01/2021	\$1,051.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 9

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009174	H2532	LUC HUA	04/01/2021	\$1,325.00
00009175	H3595	HUNTINGTON WESTMINSTER APT, LLC	04/01/2021	\$1,365.00
00009176	H1659	DON HUSS	04/01/2021	\$2,521.00
00009177	H0658	CHEN THI HUYNH	04/01/2021	\$3,636.00
00009178	H3641	FELIX HUYNH	04/01/2021	\$775.00
00009179	H4763	JOANNE HUYNH	04/01/2021	\$1,336.00
00009180	H3509	KELVIN HUYNH	04/01/2021	\$1,199.00
00009181	H4405	LOAN HUYNH	04/01/2021	\$790.00
00009182	H4237	MINH HUY HUYNH	04/01/2021	\$1,891.00
00009183	H4271	PHILIP HUYNH	04/01/2021	\$586.00
00009184	H1574	SALLY B HUYNH	04/01/2021	\$1,351.00
00009185	H4246	KIM DONG T HUYNH, SCOTT THANH OR LE	04/01/2021	\$1,094.00
00009186	H4747	THAI C HUYNH	04/01/2021	\$2,417.00
00009187	H3117	LONG BAO HUYNH	04/01/2021	\$1,314.00
00009188	H1262	CM HWANG	04/01/2021	\$1,346.00
00009189	H4666	TUE T HWINN	04/01/2021	\$2,602.00
00009190	H3848	IMPERIAL NORTH HOLDINGS, LLC	04/01/2021	\$3,305.00
00009191	H3644	IMPERIAL NORTHWEST HOLDINGS	04/01/2021	\$4,829.00
00009192	H2984	INTERNATIONAL BUSINESS INVESTMENT GROUP, LLC	04/01/2021	\$1,211.00
00009193	H4350	J & E ESTATES, LLC	04/01/2021	\$1,931.00
00009194	H3402	JERRY JANESKI	04/01/2021	\$1,226.00
00009195	H4427	JD PROPERTY MANAGEMENT, INC	04/01/2021	\$2,191.00
00009196	H4716	NARIYA JEAN	04/01/2021	\$2,001.00
00009197	H4440	JEANNE JURADO TRUSTEE	04/01/2021	\$1,615.00
00009198	H00031	JEFFERSON HB, LLC	04/01/2021	\$972.00
00009199	H3040	JENSEN SOMMERVILLE CONZELMAN	04/01/2021	\$1,799.00
00009200	H3165	JG & B CORPORATION	04/01/2021	\$7,381.00
00009201	H3266	JGK GARDEN GROVE, LP	04/01/2021	\$27,232.00
00009202	H2936	JGKALLINS INVESTMENTS, LP	04/01/2021	\$1,350.00
00009203	H2530	NATHAN D JOHNSON	04/01/2021	\$1,927.00
00009204	H4363	JTK & ASSOCIATES	04/01/2021	\$1,352.00
00009205	H4557	JTM BAYOU, LLC	04/01/2021	\$1,683.00
00009206	H9029	LIN J JU	04/01/2021	\$2,019.00
00009207	H2595	FRED JU	04/01/2021	\$1,142.00
00009208	H4042	JUNG SUN NOH	04/01/2021	\$6,898.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 10

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009209	H4077	JUNG SUN NOH	04/01/2021	\$827.00
00009210	H4078	JUNG SUN NOH	04/01/2021	\$1,351.00
00009211	H4467	KAID MALINDA INVESTMENT INC	04/01/2021	\$2,338.00
00009212	H4482	JAIDEEP KAMAT	04/01/2021	\$1,543.00
00009213	H4758	JUN-WEI KAO	04/01/2021	\$1,573.00
00009214	H3320	KASHI TRUST	04/01/2021	\$11,439.00
00009215	H4767	KATELLA FAMILY HOUSING PARTNER	04/01/2021	\$1,476.00
00009216	H3771	KATELLA MOBILE HOME ESTATES	04/01/2021	\$820.00
00009217	H3385	KAY VEE, LLC	04/01/2021	\$572.00
00009218	H3721	KCM INVESTMENTS, LLC	04/01/2021	\$2,226.00
00009219	H4696	KD RENT	04/01/2021	\$1,943.00
00009220	H1018	LU-YONG KEH	04/01/2021	\$4,997.00
00009221	H4374	KEITH AND HOLLY CORPORATION	04/01/2021	\$977.00
00009222	H9030	ROBERT KELLEY	04/01/2021	\$4,235.00
00009223	H3113	KENSINGTON GARDENS	04/01/2021	\$883.00
00009224	H1535	DAN VAN KHA	04/01/2021	\$2,676.00
00009225	H2423	CAM MY KHA	04/01/2021	\$1,753.00
00009226	H2624	SETH S KHEANG	04/01/2021	\$2,305.00
00009227	H3727	HENRY THAI KHUU	04/01/2021	\$1,447.00
00009228	H0890	DAVID S KIM	04/01/2021	\$897.00
00009229	H4527	MELVIN LEE KIM	04/01/2021	\$1,052.00
00009230	H9033	SON H KIM	04/01/2021	\$4,812.00
00009231	H9031	HARRY H KIM	04/01/2021	\$1,351.00
00009232	H9001	KING COUNTY HOUSING AUTHORITY	04/01/2021	\$4,458.86
00009233	H1797	KING INVESTMENT GROUP, INC	04/01/2021	\$3,750.00
00009234	H3591	BERNARD KING	04/01/2021	\$951.00
00009235	H3567	KENT M KITSELMAN	04/01/2021	\$1,403.00
00009236	H2960	MARILYN KLUNK	04/01/2021	\$2,373.00
00009237	H2460	KNK PROPERTIES	04/01/2021	\$9,475.00
00009238	H4510	KPKK, LLC	04/01/2021	\$1,263.00
00009239	H0082	EDWARD KUO	04/01/2021	\$673.00
00009240	H1193	EDWARD KUO	04/01/2021	\$1,190.00
00009241	H4804	SATOKO KURATA	04/01/2021	\$1,091.00
00009242	H4609	JOAQUIN KURZ	04/01/2021	\$4,650.00
00009243	H4737	TUYET B LA	04/01/2021	\$1,730.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 11

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009244	H4712	LADERA WNG II, LLC	04/01/2021	\$2,539.00
00009245	H3611	LAGUNA HILLS TRAVELODGE, LLC	04/01/2021	\$35,067.00
00009246	H3793	LAGUNA STREET APARTMENTS, LLC	04/01/2021	\$2,118.00
00009247	H2636	LAKESIDE ASSOCIATION	04/01/2021	\$3,754.00
00009248	H4253	JULIE LALLY	04/01/2021	\$1,535.00
00009249	H3552	ANDRE LAM	04/01/2021	\$1,765.00
00009250	H00028	ANH LAN LAM	04/01/2021	\$1,200.00
00009251	H3711	CAM THI T LAM	04/01/2021	\$1,164.00
00009252	H1224	CHAU LAM	04/01/2021	\$6,314.00
00009253	H2396	HAI LAM	04/01/2021	\$6,371.00
00009254	H4631	HUNG LAM	04/01/2021	\$2,144.00
00009255	H4563	QUOC D LAM	04/01/2021	\$1,892.00
00009256	H00088	QUYHN GIAO LAM	04/01/2021	\$363.00
00009257	H00042	STEVEN LAM	04/01/2021	\$1,234.00
00009258	H2168	THONG KIM LAM	04/01/2021	\$2,819.00
00009259	H3400	TONY LAM	04/01/2021	\$1,392.00
00009260	H2873	MAI LAM	04/01/2021	\$1,158.00
00009261	H4752	THUY T LAM	04/01/2021	\$989.00
00009262	H4454	LAMPLIGHTER VILLAGE APTS	04/01/2021	\$12,968.00
00009263	H4745	LAMPSON EP, LLC	04/01/2021	\$2,240.00
00009264	H4504	LAMY OANH, LLC	04/01/2021	\$6,059.00
00009265	H4663	LAS PALMAS APTS	04/01/2021	\$1,748.00
00009266	H4402	STEPHEN LAU	04/01/2021	\$2,883.00
00009267	H3945	JOHN LAZENBY	04/01/2021	\$2,671.00
00009268	H4471	LE MORNINGSIDE, LLC	04/01/2021	\$2,941.00
00009269	H4754	ANH LE	04/01/2021	\$3,167.00
00009270	H4421	BILL BQ LE	04/01/2021	\$1,295.00
00009271	H00104	CELINE LE	04/01/2021	\$3,728.00
00009272	H4634	DANIEL LE	04/01/2021	\$1,338.00
00009273	H4133	HIEP THI LE	04/01/2021	\$2,487.00
00009274	H4134	HUNG LE	04/01/2021	\$520.00
00009275	H1258	JIMMY T LE	04/01/2021	\$1,883.00
00009276	H4555	JOHN LE	04/01/2021	\$2,081.00
00009277	H4142	JOHN TOAN LE	04/01/2021	\$2,897.00
00009278	H4462	LAN V LE	04/01/2021	\$1,787.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 12

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009279	H4319	LANH C LE	04/01/2021	\$1,647.00
00009280	H3542	LANH VAN LE	04/01/2021	\$1,629.00
00009281	H3796	LY PHUONG LE	04/01/2021	\$1,261.00
00009282	H3623	MICHAEL LE	04/01/2021	\$2,343.00
00009283	H3725	MY LE	04/01/2021	\$77.00
00009284	H0918	NANCY NGAT THI LE	04/01/2021	\$2,917.00
00009285	H3416	NGA LE	04/01/2021	\$1,243.00
00009286	H3687	NGUYEN NHU LE	04/01/2021	\$36.00
00009287	H4217	PHUONG L LE	04/01/2021	\$602.00
00009288	H4428	RICHARD TUANANH LE	04/01/2021	\$1,326.00
00009289	H0948	STEPHANIE THU LE	04/01/2021	\$4,060.00
00009290	H00099	TAN LE	04/01/2021	\$1,499.00
00009291	H3661	THANH TIEN LE	04/01/2021	\$2,297.00
00009292	H00069	THOMAS T LE	04/01/2021	\$1,373.00
00009293	H0717	TINA M LE	04/01/2021	\$1,154.00
00009294	H4695	VANESSA LE	04/01/2021	\$1,896.00
00009295	H4502	VICTOR LE	04/01/2021	\$1,746.00
00009296	H2548	XAN NGOC LE	04/01/2021	\$1,548.00
00009297	H3447	MONIQUE LEDUC	04/01/2021	\$1,289.00
00009298	H3946	DAVID OR TRINH LEE	04/01/2021	\$1,264.00
00009299	H4547	LEMON GROVE, LP	04/01/2021	\$1,522.00
00009300	H1602	ROGER LEUNG	04/01/2021	\$1,422.00
00009301	H4002	SOL M LI	04/01/2021	\$1,828.00
00009302	H1533	DAVID LIN	04/01/2021	\$2,676.00
00009303	H1616	EEL-YU LIN	04/01/2021	\$950.00
00009304	H4344	LINCOLN VILLAS APT HOMES, LLC	04/01/2021	\$6,756.00
00009305	H4592	LINCOLN WOODS APARTMENTS	04/01/2021	\$1,207.00
00009306	H1960	KATHERINE LITTON	04/01/2021	\$1,486.00
00009307	H2080	LLE, LLC	04/01/2021	\$976.00
00009308	H00090	LOGAN MT LLC	04/01/2021	\$1,435.00
00009309	H3888	TROY LONG, TU-ANH & DUONG	04/01/2021	\$707.00
00009310	H3311	CINDY W LOUIE	04/01/2021	\$2,307.00
00009311	H2120	QUYNH THUY LU	04/01/2021	\$2,727.00
00009312	H1424	KHANH LUONG	04/01/2021	\$1,345.00
00009313	H4603	LONG DUC LUONG	04/01/2021	\$1,026.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 13

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009314	H4157	TRA THI-PHUONG LUONG	04/01/2021	\$2,264.00
00009315	H4572	ALLEN LUU	04/01/2021	\$1,262.00
00009316	H4491	TUAN V LUU	04/01/2021	\$1,360.00
00009317	H3696	XUYEN LUU	04/01/2021	\$1,518.00
00009318	H4669	ANDY LY	04/01/2021	\$1,494.00
00009319	H3717	DUC T LY	04/01/2021	\$1,652.00
00009320	H1613	MING LY	04/01/2021	\$1,670.00
00009321	H3754	TAN Q LY	04/01/2021	\$868.00
00009322	H3562	THANH LY	04/01/2021	\$794.00
00009323	H3390	TRANH LY	04/01/2021	\$4,509.00
00009324	H4154	TUYEN X LY	04/01/2021	\$2,394.00
00009325	H6070	MADJE-STAMPER PATRICIA A MADJE	04/01/2021	\$7,976.00
00009326	H3201	ANN N MAI	04/01/2021	\$2,520.00
00009327	H3996	FRANK MAI	04/01/2021	\$1,736.00
00009328	H4308	JENNIE THUY MAI	04/01/2021	\$2,433.00
00009329	H1499	LINDA MAI	04/01/2021	\$1,737.00
00009330	H2451	CHUCK MAI	04/01/2021	\$2,186.00
00009331	H4298	JAIMIE MAI-NGO	04/01/2021	\$832.00
00009332	H4539	KONSTANTINOS P MANDAS	04/01/2021	\$3,291.00
00009333	H4796	HARALAMBOS & GEORGIA MANTAS	04/01/2021	\$1,905.00
00009334	H4818	LLOYD MANTONG	04/01/2021	\$355.00
00009335	H6865	MARIPOSA PROPERTIES	04/01/2021	\$1,160.00
00009336	H4816	MATTAR REAL ESTATE INVESTMENT	04/01/2021	\$852.00
00009337	H7370	LEOPOLD MAYER	04/01/2021	\$2,498.00
00009338	H2135	JOHN MC GOFF	04/01/2021	\$929.00
00009339	H2842	GRACE OR GERALD MCGRATH	04/01/2021	\$230.00
00009340	H8490	GRACE OR GERALD MCGRATH	04/01/2021	\$2,625.00
00009341	H4793	MEAGHER FAMILY BYPASS TRUST	04/01/2021	\$776.00
00009342	H4794	ELAINE MEAGHER	04/01/2021	\$1,091.00
00009343	H1653	MANH MEAK	04/01/2021	\$1,201.00
00009344	H4435	JAGDISH P MEHTA	04/01/2021	\$2,534.00
00009345	H2110	MIDWAY INTEREST, LP	04/01/2021	\$5,445.00
00009346	H2638	MIKE & KATHY LEE, LP	04/01/2021	\$2,968.00
00009347	H4568	ROSEMARY MILLER	04/01/2021	\$1,446.00
00009348	H4814	MITTAL LEGACY, LP	04/01/2021	\$1,495.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 14

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009349	H3256	MONARCH POINTE	04/01/2021	\$1,114.00
00009350	H3534	ANTHONY MONTEBELLO	04/01/2021	\$1,363.00
00009351	H2976	MONTECITO VISTA APT HOMES	04/01/2021	\$1,290.00
00009352	H4658	BACH MORALES	04/01/2021	\$2,395.00
00009353	H4715	MORNINGSIDE APTS, LLC	04/01/2021	\$7,844.00
00009354	H4812	UDAYA CHAITHANYA MOTHE	04/01/2021	\$1,446.00
00009355	H00077	RANDALL MYCORN	04/01/2021	\$1,155.00
00009356	H3798	N & V DEVELOPMENT, LLC	04/01/2021	\$8,061.00
00009357	H2491	N&V DEVELOPMENT, LLC	04/01/2021	\$11,008.00
00009358	H2034	ABRAM B NACHAM	04/01/2021	\$1,085.00
00009359	H2622	PATRICK NAMSINH	04/01/2021	\$1,866.00
00009360	H4799	NAPO OF CALIFORNIA, LLC	04/01/2021	\$1,317.00
00009361	H3834	NEW HORIZONVIEW, LLC	04/01/2021	\$1,326.00
00009362	H3865	NEW KENYON APARTMENTS, LLC	04/01/2021	\$1,414.00
00009363	H3973	NEW TCNY, LLC RETIREMENT PLAN & TRUST	04/01/2021	\$1,029.00
00009364	H4029	NEWPORT ESTATE EXPANSION, LLC	04/01/2021	\$1,405.00
00009365	H2745	DALE XUAN NGHIEM	04/01/2021	\$1,100.00
00009366	H3956	DANIEL NGHIEM	04/01/2021	\$19,979.00
00009367	H1921	DAVID NGO	04/01/2021	\$1,466.00
00009368	H4751	DUNG T NGO	04/01/2021	\$1,572.00
00009369	H3630	HONG DIEP LE NGO	04/01/2021	\$938.00
00009370	H0314	LOC T NGO	04/01/2021	\$802.00
00009371	H4550	TAMMY NGO	04/01/2021	\$1,090.00
00009372	H4691	AN MANH NGUYEN	04/01/2021	\$1,635.00
00009373	H4719	ANA-KARINA A NGUYEN	04/01/2021	\$1,403.00
00009374	H4645	ANDREA NGUYEN	04/01/2021	\$1,094.00
00009375	H3734	ANDREW Q NGUYEN	04/01/2021	\$1,860.00
00009376	H4401	ANH NGUYEN	04/01/2021	\$1,305.00
00009377	H1938	ANH-DAO NGUYEN	04/01/2021	\$1,069.00
00009378	H3749	ANTHONY NGUYEN	04/01/2021	\$1,286.00
00009379	H1457	BINH NGOC NGUYEN	04/01/2021	\$2,621.00
00009380	H1430	BINH QUOC NGUYEN	04/01/2021	\$3,204.00
00009381	H3958	BRIAN BAO-KHA NGUYEN	04/01/2021	\$2,694.00
00009382	H4297	CALVIN H NGUYEN	04/01/2021	\$1,733.00
00009383	H3248	CHARLIE NGUYEN	04/01/2021	\$1,640.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 15

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009384	H4511	CHRISTINE NGUYEN	04/01/2021	\$1,509.00
00009385	H2274	CHRISTOPHER NGUYEN	04/01/2021	\$1,692.00
00009386	H3777	CHUONG NGUYEN	04/01/2021	\$1,255.00
00009387	H9043	CUONG NGUYEN	04/01/2021	\$2,620.00
00009388	H4641	DAN NGUYEN	04/01/2021	\$1,153.00
00009389	H4569	DAT NGUYEN	04/01/2021	\$1,744.00
00009390	H4015	LOAN T NGUYEN, DAVID / HA	04/01/2021	\$1,596.00
00009391	H4565	RICHARD NGUYEN, DEBBY & TRAN	04/01/2021	\$1,512.00
00009392	H1881	DIEM-THUY NGUYEN	04/01/2021	\$1,915.00
00009393	H00085	DOMINIC NGUYEN	04/01/2021	\$2,432.00
00009394	H4558	DONG NGUYEN	04/01/2021	\$1,363.00
00009395	H4679	DUNG KIM NGUYEN	04/01/2021	\$1,833.00
00009396	H3872	DUONG NGUYEN	04/01/2021	\$1,795.00
00009397	H1143	DZUNG DAN NGUYEN	04/01/2021	\$3,934.00
00009398	H2551	ERIC NGUYEN	04/01/2021	\$1,610.00
00009399	H4621	HANG NGUYEN	04/01/2021	\$1,946.00
00009400	H3953	HANH V NGUYEN	04/01/2021	\$1,528.00
00009401	H3370	HAO & HUONG T NGUYEN	04/01/2021	\$869.00
00009402	H1446	JOSEPH NGUYEN, HOA THI OR NGUYEN	04/01/2021	\$6,667.00
00009403	H4514	HOAN VAN NGUYEN	04/01/2021	\$939.00
00009404	H4460	HUAN NGOC NGUYEN	04/01/2021	\$1,330.00
00009405	H4479	HUE THI NGUYEN	04/01/2021	\$1,192.00
00009406	H3276	HUNG NGUYEN	04/01/2021	\$1,161.00
00009407	H3870	TIEN D NGUYEN, HUONG THY OR PHAM	04/01/2021	\$1,165.00
00009408	H00039	JANET NGUYEN	04/01/2021	\$2,738.00
00009409	H3242	JEANNIE NGUYEN	04/01/2021	\$1,432.00
00009410	H3241	JULIE NGUYEN	04/01/2021	\$1,341.00
00009411	H4697	KEVIN NGUYEN	04/01/2021	\$2,149.00
00009412	H4285	KHAI HUE NGUYEN	04/01/2021	\$2,511.00
00009413	H3497	KHANH DANG NGUYEN	04/01/2021	\$1,233.00
00009414	H4419	KHOI NGUYEN	04/01/2021	\$1,600.00
00009415	H3149	KIEN NGUYEN	04/01/2021	\$4,959.00
00009416	H4652	KIEN THI NGUYEN	04/01/2021	\$1,752.00
00009417	H3919	KIMCHI THI NGUYEN	04/01/2021	\$683.00
00009418	H4713	LAN HUONG NGUYEN	04/01/2021	\$1,373.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 16

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009419	H4195	LANIE NGUYEN	04/01/2021	\$2,814.00
00009420	H4700	LE B NGUYEN	04/01/2021	\$1,819.00
00009421	H1687	LINDA NGUYEN	04/01/2021	\$2,946.00
00009422	H4079	LINDA LIEN NGUYEN	04/01/2021	\$1,399.00
00009423	H2331	LONG HUYEN DAC NGUYEN	04/01/2021	\$5,425.00
00009424	H4478	LUONG NGUYEN	04/01/2021	\$1,387.00
00009425	H1380	LYNDA NGUYEN	04/01/2021	\$1,321.00
00009426	H2391	MAN M NGUYEN	04/01/2021	\$1,339.00
00009427	H3526	MICHAEL THANG NGUYEN	04/01/2021	\$2,108.00
00009428	H4738	MINH NGUYEN	04/01/2021	\$1,452.00
00009429	H4782	MY CHAU NGUYEN	04/01/2021	\$1,345.00
00009430	H00040	MY DUNG THI NGUYEN	04/01/2021	\$1,914.00
00009431	H0907	MYLY NGUYEN	04/01/2021	\$1,533.00
00009432	H3170	MYRA D NGUYEN	04/01/2021	\$1,017.00
00009433	H1717	NANCY NGUYEN	04/01/2021	\$6,782.00
00009434	H3713	NANCY NGUYEN	04/01/2021	\$1,272.00
00009435	H1899	NGHI NGUYEN	04/01/2021	\$1,856.00
00009436	H1298	NGHIA NGUYEN	04/01/2021	\$1,319.00
00009437	H4744	NGOC NGUYEN	04/01/2021	\$1,709.00
00009438	H4469	OSCAR THUAN NGUYEN	04/01/2021	\$2,292.00
00009439	H4423	PETER NGUYEN	04/01/2021	\$3,838.00
00009440	H00068	PHUC T NGUYEN	04/01/2021	\$1,311.00
00009441	H2197	PHUONG MY THI NGUYEN	04/01/2021	\$11,534.00
00009442	H4439	QUAN NGUYEN	04/01/2021	\$1,197.00
00009443	H3853	QUANG M NGUYEN	04/01/2021	\$161.00
00009444	H4680	SHAWN B NGUYEN	04/01/2021	\$1,994.00
00009445	H4559	SKY NGUYEN	04/01/2021	\$3,804.00
00009446	H3185	SON DINH NGUYEN	04/01/2021	\$1,170.00
00009447	H4118	STEVE NGUYEN	04/01/2021	\$1,258.00
00009448	H3425	STEVEN NGUYEN	04/01/2021	\$1,044.00
00009449	H4670	STEVEN NGUYEN	04/01/2021	\$1,892.00
00009450	H4340	STEVENS NGUYEN	04/01/2021	\$1,797.00
00009451	H3317	TAM N NGUYEN	04/01/2021	\$1,429.00
00009452	H4774	TAN QUOC VIET NGUYEN	04/01/2021	\$2,442.00
00009453	H3373	THAI DUC NGUYEN	04/01/2021	\$2,107.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 17

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009454	H4586	THANG XUAN NGUYEN	04/01/2021	\$1,052.00
00009455	H00059	THANH-HAI NGUYEN	04/01/2021	\$1,008.00
00009456	H3978	THANH-LE NGUYEN	04/01/2021	\$1,989.00
00009457	H3313	THANH-NHAN NGUYEN	04/01/2021	\$438.00
00009458	H3755	THINH QUOC NGUYEN	04/01/2021	\$1,315.00
00009459	H4749	THOMAS NGUYEN	04/01/2021	\$2,290.00
00009460	H4734	THU-DUNG TRAN NGUYEN	04/01/2021	\$1,657.00
00009461	H1302	THUY NGUYEN	04/01/2021	\$1,514.00
00009462	H4772	THUY NGUYEN	04/01/2021	\$2,277.00
00009463	H3331	THUYHUONG THI NGUYEN	04/01/2021	\$1,170.00
00009464	H9045	TIEP NGUYEN	04/01/2021	\$1,666.00
00009465	H00046	TIM NGUYEN	04/01/2021	\$941.00
00009466	H2473	TIMMY NGUYEN	04/01/2021	\$3,021.00
00009467	H4349	TRACY TRUC NGUYEN	04/01/2021	\$898.00
00009468	H4805	TRAM ANH NGUYEN	04/01/2021	\$1,475.00
00009469	H4636	TRANG NGUYEN	04/01/2021	\$1,864.00
00009470	H3469	TUAN HOANG NGUYEN	04/01/2021	\$1,780.00
00009471	H4243	TUAN NGOC NGUYEN	04/01/2021	\$1,992.00
00009472	H3737	TUNG QUOC NGUYEN	04/01/2021	\$2,448.00
00009473	H4069	TUNG XUAN NGUYEN	04/01/2021	\$1,378.00
00009474	H4677	TUONG LAN DAI NGUYEN	04/01/2021	\$1,886.00
00009475	H4643	TUYET MAI NGUYEN	04/01/2021	\$1,328.00
00009476	H1937	TUYET TRINH NGUYEN	04/01/2021	\$1,506.00
00009477	H4166	TUYET TRINH NGUYEN	04/01/2021	\$1,124.00
00009478	H4766	UYEN NGUYEN	04/01/2021	\$1,688.00
00009479	H3655	VAN HUY NGUYEN	04/01/2021	\$1,842.00
00009480	H3852	SOAN P NGUYEN, VANANH & DO	04/01/2021	\$2,022.00
00009481	H4570	VIVIAN NGUYEN	04/01/2021	\$1,339.00
00009482	H4755	NGUYEN, VY & THI	04/01/2021	\$1,783.00
00009483	H2501	CANG NGUYEN	04/01/2021	\$1,182.00
00009484	H2550	CUONG CHI NGUYEN	04/01/2021	\$5,361.00
00009485	H2337	DUNG VAN NGUYEN	04/01/2021	\$1,117.00
00009486	H3012	HAN NGUYEN	04/01/2021	\$1,026.00
00009487	H1766	HUNG C NGUYEN	04/01/2021	\$1,826.00
00009488	H3061	HUY NGUYEN	04/01/2021	\$2,090.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 18

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009489	H3096	HUYEN TT NGUYEN	04/01/2021	\$4,324.00
00009490	H2956	JAMES NGUYEN	04/01/2021	\$1,225.00
00009491	H1552	LAN PHUONG THI NGUYEN	04/01/2021	\$2,241.00
00009492	H2409	LAN-NGOC NGUYEN	04/01/2021	\$1,362.00
00009493	H3086	LANI LAN T NGUYEN	04/01/2021	\$1,137.00
00009494	H2812	MINH NGOC NGUYEN	04/01/2021	\$1,453.00
00009495	H2511	PERRY NGUYEN	04/01/2021	\$1,122.00
00009496	H2637	THANH NGUYEN	04/01/2021	\$3,436.00
00009497	H2610	THANH-TUYEN NGUYEN	04/01/2021	\$2,310.00
00009498	H2479	THINH THI NGUYEN	04/01/2021	\$7,026.00
00009499	H2561	TIFFANY NGUYEN	04/01/2021	\$2,955.00
00009500	H2885	TIM NGUYEN	04/01/2021	\$1,516.00
00009501	H3070	WIN NGUYEN	04/01/2021	\$1,557.00
00009502	H2912	XUAN YEN NGUYEN	04/01/2021	\$1,142.00
00009503	H3366	PHIYEN TERESA NGUYEN-LAM	04/01/2021	\$1,198.00
00009504	H3802	DIANA NGUYEN-THIEN-NH	04/01/2021	\$2,534.00
00009505	H4725	NIGUEL EQUITY PARTNERS, LLC	04/01/2021	\$1,474.00
00009506	H00029	NOGAL FELIZ APARTMENTS	04/01/2021	\$1,035.00
00009507	H3952	NORMANDY APARTMENTS, LLC	04/01/2021	\$992.00
00009508	H4597	JOHN OMDAHL	04/01/2021	\$813.00
00009509	H9048	ORANGE COUNTY COMMUNITY HOUSING CORP	04/01/2021	\$31,406.00
00009510	H1622	ORANGE TREE APTS	04/01/2021	\$15,198.00
00009511	H4761	ORRWAY APTS HOMES, LLC	04/01/2021	\$1,472.00
00009512	H2516	SUIKO OZAKI	04/01/2021	\$1,439.00
00009513	H4495	P & J PROPERTY MANAGEMENT	04/01/2021	\$2,455.00
00009514	H00100	PACIFIC INVESTMENT COMPANY INC	04/01/2021	\$964.00
00009515	H00083	JOHN PAGLIASSOTTI	04/01/2021	\$1,497.00
00009516	H1776	BRADRAKUMAR L PAHU	04/01/2021	\$2,462.00
00009517	H1328	PALM ISLAND	04/01/2021	\$12,530.00
00009518	H4477	PARISIAN APARTMENTS, LP	04/01/2021	\$1,243.00
00009519	H4487	PARK LANDING APARTMENTS	04/01/2021	\$1,062.00
00009520	H0254	PARK STANTON PLACE C/O APERTO PROPERTY MANAGEMENT	04/01/2021	\$6,075.00
00009521	H4307	JIN PARK	04/01/2021	\$1,500.00
00009522	H8794	PATEL DILIP M	04/01/2021	\$5,944.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 19

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009523	H3249	SMITA DIPAK PATEL	04/01/2021	\$1,176.00
00009524	H3111	PELICAN INVESTMENTS #6, LLC	04/01/2021	\$3,058.00
00009525	H4370	PELICAN INVESTMENTS #8, LLC	04/01/2021	\$1,300.00
00009526	H3544	PELICAN INVESTMENTS, LLC	04/01/2021	\$671.00
00009527	H3386	PETITE ELISE, LLC	04/01/2021	\$1,839.00
00009528	H4176	BINH Q PHAM	04/01/2021	\$1,517.00
00009529	H4210	CAROLINE PHAM	04/01/2021	\$2,434.00
00009530	H3408	CHIEN DINH PHAM	04/01/2021	\$726.00
00009531	H4743	CHINH VAN PHAM	04/01/2021	\$1,639.00
00009532	H1651	DAVID DUNG PHAM	04/01/2021	\$1,610.00
00009533	H9709	DAVID LINH PHAM	04/01/2021	\$2,051.00
00009534	H4398	DUNG TIEN PHAM	04/01/2021	\$1,398.00
00009535	H3912	HIEU PHAM	04/01/2021	\$1,922.00
00009536	H1080	HOANG PHAM	04/01/2021	\$4,389.00
00009537	H2305	KHANG PHAM	04/01/2021	\$1,003.00
00009538	H1971	KHANH CONG PHAM	04/01/2021	\$1,341.00
00009539	H1117	LUCY PHAM, KIM ANH OR PHAM	04/01/2021	\$3,622.00
00009540	H0788	LAN VAN PHAM	04/01/2021	\$3,112.00
00009541	H4095	LIEN PHAM	04/01/2021	\$1,297.00
00009542	H00089	LILY H PHAM	04/01/2021	\$846.00
00009543	H2243	MINH VAN PHAM	04/01/2021	\$763.00
00009544	H4033	NGHIA PHAM	04/01/2021	\$1,625.00
00009545	H4724	NHAC T PHAM	04/01/2021	\$1,092.00
00009546	H4683	PAULINE TRAM PHAM	04/01/2021	\$1,656.00
00009547	H3773	PHUONG T PHAM	04/01/2021	\$1,281.00
00009548	H4501	QUYNH GIAO PHAM	04/01/2021	\$2,642.00
00009549	H3786	QUYNH-ANH HOANG PHAM	04/01/2021	\$1,737.00
00009550	H4213	SON THAI PHAM	04/01/2021	\$2,306.00
00009551	H3302	THANH QUOC PHAM	04/01/2021	\$3,702.00
00009552	H2255	TIM PHAM	04/01/2021	\$3,040.00
00009553	H4651	TRANG PHAM	04/01/2021	\$2,379.00
00009554	H2065	TRI PHAM	04/01/2021	\$2,140.00
00009555	H4593	TRUONG TAI PHAM	04/01/2021	\$2,339.00
00009556	H4105	TUAN A PHAM	04/01/2021	\$1,263.00
00009557	H4537	TUAN A PHAM	04/01/2021	\$1,028.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 20

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009558	H3880	VAN LOAN THI PHAM	04/01/2021	\$930.00
00009559	H4503	VERONIQUE PHAM	04/01/2021	\$1,493.00
00009560	H3967	VU PHAM	04/01/2021	\$912.00
00009561	H2328	XUANNHA T PHAM	04/01/2021	\$1,092.00
00009562	H0595	HAI MINH PHAM	04/01/2021	\$9,801.00
00009563	H1932	HELEN PHAM	04/01/2021	\$1,025.00
00009564	H0651	QUANG PHAM	04/01/2021	\$1,563.00
00009565	H4685	KATHY PHAN	04/01/2021	\$2,574.00
00009566	H4188	OANH PHAN	04/01/2021	\$4,946.00
00009567	H4781	STEVEN PHAN	04/01/2021	\$1,436.00
00009568	H4408	TAMMY PHAN	04/01/2021	\$1,555.00
00009569	H3820	THANH T PHAN	04/01/2021	\$848.00
00009570	H4768	TRUNG QUANG PHAN	04/01/2021	\$1,485.00
00009571	H3257	DON PHAN	04/01/2021	\$1,291.00
00009572	H1101	TOAN CONG PHAN	04/01/2021	\$1,189.00
00009573	H3698	ART S PHARN	04/01/2021	\$1,677.00
00009574	H4701	ANH PHI	04/01/2021	\$2,584.00
00009575	H2863	PINE TREE PROPERTY, LLC	04/01/2021	\$726.00
00009576	H3464	PINEMEADOWS APARTMENTS ATTEN: LEASING OFFICE	04/01/2021	\$1,506.00
00009577	H3505	PJP PROPERTIES, LLC	04/01/2021	\$1,405.00
00009578	H1493	PLAZA PATRIA COURT LTD	04/01/2021	\$2,678.00
00009579	H4214	PLYMOUTH HRA	04/01/2021	\$494.05
00009580	H3769	PNB GREEN EXPANSION MGMT, LLC	04/01/2021	\$2,702.00
00009581	H4384	SAILESH POKAL	04/01/2021	\$1,072.00
00009582	H4795	POST STERLING COURT, LP	04/01/2021	\$1,181.00
00009583	H3668	PRINCE NEW HORIZON VILLAGE	04/01/2021	\$3,675.00
00009584	H1967	RONNIE PUGH	04/01/2021	\$608.00
00009585	H2078	JAMIE QUACH	04/01/2021	\$1,062.00
00009586	H4306	SAN T QUACH	04/01/2021	\$1,286.00
00009587	H3994	DERRICK WILLIAM QUAN	04/01/2021	\$1,743.00
00009588	H4357	VAN-LAN QUAN	04/01/2021	\$2,740.00
00009589	H1448	GARY L QUINN	04/01/2021	\$818.00
00009590	H2458	D M RATANJEE	04/01/2021	\$1,021.00
00009591	H0978	RAVART PACIFIC, LP	04/01/2021	\$1,009.00
00009592	H3808	RAVENWOOD PROPERTIES, LLC	04/01/2021	\$1,347.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 21

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009593	H4801	RBJ INVESTMENTS CORP	04/01/2021	\$1,175.00
00009594	H4684	RED BLOSSOM INVESTMENTS, LLC	04/01/2021	\$1,418.00
00009595	H3184	ROGER LEE REED	04/01/2021	\$2,081.00
00009596	H3573	REO INTERNATIONAL CORPORATION	04/01/2021	\$1,368.00
00009597	H4932	RAYMOND REYES	04/01/2021	\$2,050.00
00009598	H1100	ROBERTA APTS, LP	04/01/2021	\$2,221.00
00009599	H3186	ROCEL PROPERTIES MGMT INC	04/01/2021	\$1,233.00
00009600	H1303	ALBERT/PATRICIA RODRIGUEZ	04/01/2021	\$763.00
00009601	H00109	JESSE RODRIQUEZ	04/01/2021	\$1,113.00
00009602	H3631	CHARLENE ROSSIGNOL	04/01/2021	\$906.00
00009603	H1149	MIHRAN SABUNJIAN	04/01/2021	\$9,240.00
00009604	H4231	SALSOL PROPERTIES, LLC	04/01/2021	\$1,016.00
00009605	H4681	SAN MARINO	04/01/2021	\$210.00
00009606	H00097	SAN MIGUEL APTS / SAN MIGUEL PROPERTIES LP	04/01/2021	\$1,191.00
00009607	H0858	PAT SARGENT	04/01/2021	\$1,154.00
00009608	H3340	JILL ANN SCHLEIFER	04/01/2021	\$2,819.00
00009609	H4376	SCOTT G JOE	04/01/2021	\$1,026.00
00009610	H3528	ALFRED L SCULLIN	04/01/2021	\$1,452.00
00009611	H3151	LISA & BRYAN SEO	04/01/2021	\$2,860.00
00009612	H2952	ALVINA SERNA	04/01/2021	\$656.00
00009613	H4072	SERRANO WOODS, LP	04/01/2021	\$395.00
00009614	H00103	DAHNING SHIH	04/01/2021	\$3,163.00
00009615	H4546	MOLLY SHIH	04/01/2021	\$1,698.00
00009616	H3699	SHREEVES PROPERTIES, LLC	04/01/2021	\$4,408.00
00009617	H3779	IRV D SIGEL	04/01/2021	\$1,636.00
00009618	H4150	SILVER COVE APARTMENTS, LP	04/01/2021	\$1,173.00
00009619	H4451	IRVIN SILVERSTEIN	04/01/2021	\$1,233.00
00009620	H1182	SINGING TREE	04/01/2021	\$1,335.00
00009621	H3459	BAY SIU	04/01/2021	\$1,442.00
00009622	H4778	SOC, LLC	04/01/2021	\$1,198.00
00009623	H00055	LLC SOUTHCOAST CAPITAL HOLDINGS	04/01/2021	\$1,126.00
00009624	H1686	JAMES SPEARS	04/01/2021	\$1,163.00
00009625	H4145	SPRINGDALE STREET APARTMENTS	04/01/2021	\$1,255.00
00009626	H3835	SPRINGSIDE, LLC	04/01/2021	\$7,083.00
00009627	H4458	TRUST STANLEY A SIROTT	04/01/2021	\$1,356.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 22

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009628	H3038	STANTON GROUP THREE, LLC	04/01/2021	\$7,010.00
00009629	H4566	STANTON GROUP, LLC	04/01/2021	\$1,985.00
00009630	H1277	STEWART PROPERTIES	04/01/2021	\$1,125.00
00009631	H0403	ERICA STIDHAM	04/01/2021	\$4,521.00
00009632	H0359	STUART DRIVE/ROSE GARDEN APTS	04/01/2021	\$99,590.00
00009633	H1147	UN SU	04/01/2021	\$2,278.00
00009634	H2049	SUNGROVE SENIOR APTS	04/01/2021	\$22,970.00
00009635	H3805	SUNNYGATE, LLC	04/01/2021	\$2,506.00
00009636	H00108	SUNRISE APARTMENT HOMES	04/01/2021	\$1,219.00
00009637	H3766	SUNRISE VILLAGE PROPERTIES, LLC	04/01/2021	\$6,823.00
00009638	H4484	EMILE J SWEIDA	04/01/2021	\$1,161.00
00009639	H4543	SYCAMORE COURT APARTMENTS	04/01/2021	\$13,221.00
00009640	H4178	T AND G TRANG'S CREDIT TRUST UDT 5/1/02	04/01/2021	\$2,548.00
00009641	H4449	VINH TA	04/01/2021	\$2,218.00
00009642	H4081	ALI TAHAMI	04/01/2021	\$2,011.00
00009643	H00094	TAMARACK WOODS A CALIFORNIA LP	04/01/2021	\$1,444.00
00009644	H3614	TAMERLANE APARTMENTS	04/01/2021	\$1,028.00
00009645	H2487	TAMERLANE ASSOCIATES, LLC	04/01/2021	\$2,539.00
00009646	H3432	ENLIANG T TANG	04/01/2021	\$1,257.00
00009647	H3527	TDT WASHINGTON, LLC	04/01/2021	\$1,879.00
00009648	H2875	HENRY THACH	04/01/2021	\$2,431.00
00009649	H4731	LYNN THAI	04/01/2021	\$1,311.00
00009650	H4628	PAULA THAI	04/01/2021	\$3,363.00
00009651	H00076	THE ARBORS-LAKE FOREST OWNER LLC	04/01/2021	\$1,039.00
00009652	H00052	THE CAMBRIDGE	04/01/2021	\$1,600.00
00009653	H4388	THE CORINTHIAN APARTMENTS	04/01/2021	\$806.00
00009654	H4391	THE FLORENTINE APTS	04/01/2021	\$1,741.00
00009655	H4759	THE KELVIN APARTMENTS	04/01/2021	\$1,731.00
00009656	H4390	THE MEDITERRANEAN APTS	04/01/2021	\$997.00
00009657	H1007	THE ROSE GARDEN APTS	04/01/2021	\$8,735.00
00009658	H4633	THSW PARTNERS, LLC	04/01/2021	\$6,530.00
00009659	H3260	ANA MARIA THULSIRAJ	04/01/2021	\$2,082.00
00009660	H00053	TIC INVESTMENT COMPANY LLC	04/01/2021	\$4,421.00
00009661	H00062	TIC INVESTMENT COMPANY	04/01/2021	\$3,813.00
00009662	H4599	TIC INVESTMENT COMPANY, LLC	04/01/2021	\$1,386.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 23

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009663	H4600	TIC INVESTMENT COMPANY, LLC	04/01/2021	\$978.00
00009664	H00060	TIC INVESTMENT LLC	04/01/2021	\$914.00
00009665	H4494	TLHA DOTY, LLC	04/01/2021	\$2,747.00
00009666	H4219	TLHA PALM, LLC	04/01/2021	\$2,136.00
00009667	H3827	TN INVESTMENTS GROUP, LLC	04/01/2021	\$8,783.00
00009668	H3828	TN INVESTMENTS GROUP, LLC	04/01/2021	\$1,601.00
00009669	H3829	TN INVESTMENTS GROUP, LLC	04/01/2021	\$1,249.00
00009670	H3830	TN INVESTMENTS GROUP, LLC	04/01/2021	\$6,128.00
00009671	H3831	TN INVESTMENTS GROUP, LLC	04/01/2021	\$1,337.00
00009672	H3939	TN INVESTMENTS PROPERTIES, LLC	04/01/2021	\$16,237.00
00009673	H4753	TNL PROPERTY, LLC	04/01/2021	\$2,688.00
00009674	H1212	KIMTRUNG THI TO	04/01/2021	\$1,344.00
00009675	H0855	VAN THU TO	04/01/2021	\$4,303.00
00009676	H4492	TOC TOC, LLC	04/01/2021	\$4,904.00
00009677	H3377	TAP THAT TON	04/01/2021	\$1,299.00
00009678	H1454	KHANH TON	04/01/2021	\$2,344.00
00009679	H4041	JOANNE C TONNU	04/01/2021	\$2,523.00
00009680	H3902	TOPADVANCED, LLC	04/01/2021	\$3,729.00
00009681	H1789	TRAN'S APARTMENTS	04/01/2021	\$4,440.00
00009682	H4099	ANDREW TRAN	04/01/2021	\$934.00
00009683	H4407	ANDREW TRAN	04/01/2021	\$3,586.00
00009684	H7723	ANH TUYET T TRAN	04/01/2021	\$1,107.00
00009685	H4727	ANNA THI TRAN	04/01/2021	\$1,137.00
00009686	H4012	CATHY TRAN	04/01/2021	\$1,443.00
00009687	H4798	CHRISTINE LINH TRAN	04/01/2021	\$1,306.00
00009688	H2027	FREDERICK M TRAN	04/01/2021	\$1,218.00
00009689	H4541	HANG TRAN	04/01/2021	\$1,356.00
00009690	H00102	HELENA TRAN	04/01/2021	\$3,488.00
00009691	H3646	HENRY TRAN	04/01/2021	\$1,305.00
00009692	H1203	JACLYN TRAN, HIEP OR TRAN	04/01/2021	\$3,289.00
00009693	H3554	HO VAN TRAN	04/01/2021	\$4,557.00
00009694	H3896	HOA TRAN	04/01/2021	\$1,417.00
00009695	H3142	HOA THU TRAN	04/01/2021	\$1,216.00
00009696	H3456	HUNG QUOC TRAN	04/01/2021	\$1,122.00
00009697	H00044	HUONG TRAN	04/01/2021	\$2,202.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 24

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009698	H00057	HUYEN TRAN	04/01/2021	\$1,442.00
00009699	H3403	JANE TRAN	04/01/2021	\$1,502.00
00009700	H4270	JIM DUC TRAN	04/01/2021	\$1,548.00
00009701	H4698	JOHNNY TRAN	04/01/2021	\$2,261.00
00009702	H4251	JOSEPH QUANG TRAN	04/01/2021	\$582.00
00009703	H4499	JOSEPHINE TRAN	04/01/2021	\$2,024.00
00009704	H4158	KEVIN THANH TRAN	04/01/2021	\$1,619.00
00009705	H00058	KIEU VAN TRAN	04/01/2021	\$2,272.00
00009706	H3517	KIM VAN TRAN	04/01/2021	\$1,243.00
00009707	H4276	LAY THI TRAN	04/01/2021	\$1,620.00
00009708	H4130	LOC H TRAN	04/01/2021	\$1,832.00
00009709	H4441	LUAN D TRAN	04/01/2021	\$948.00
00009710	H3775	LUCIA THUY TRAN	04/01/2021	\$941.00
00009711	H4602	MAI TRAN	04/01/2021	\$3,052.00
00009712	H3442	MARY TRAN	04/01/2021	\$1,040.00
00009713	H4732	MINH TRAN	04/01/2021	\$1,578.00
00009714	H4059	MY T TRAN	04/01/2021	\$1,123.00
00009715	H4687	NGAN TRAN	04/01/2021	\$3,425.00
00009716	H3211	NGOC THI TRAN	04/01/2021	\$1,545.00
00009717	H4378	NHUT NGUYEN TRAN	04/01/2021	\$3,317.00
00009718	H3530	TAM ANH TRAN	04/01/2021	\$2,816.00
00009719	H4198	TAM MINH TRAN	04/01/2021	\$1,640.00
00009720	H3742	THERESA T TRAN	04/01/2021	\$499.00
00009721	H3744	THERESA T TRAN	04/01/2021	\$1,058.00
00009722	H4291	THONG TRAN	04/01/2021	\$1,325.00
00009723	H3371	THU HUONG THI TRAN	04/01/2021	\$821.00
00009724	H4394	TIM TRAN	04/01/2021	\$1,515.00
00009725	H4573	TINA TRAN	04/01/2021	\$1,908.00
00009726	H00025	TONY TRAN	04/01/2021	\$1,642.00
00009727	H00073	TRANG P TRAN	04/01/2021	\$856.00
00009728	H3709	TRI TRAN	04/01/2021	\$1,355.00
00009729	H4507	TRUNG H TRAN	04/01/2021	\$1,276.00
00009730	H3163	TRUYEN & HELEN TRAN	04/01/2021	\$2,317.00
00009731	H3220	TU TRAN	04/01/2021	\$1,416.00
00009732	H4265	VAN TRAN	04/01/2021	\$772.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 25

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009733	H3253	VICTORIA TRAN	04/01/2021	\$1,062.00
00009734	H0386	BAU TRAN	04/01/2021	\$976.00
00009735	H3227	PAUL TUAN DUC TRAN	04/01/2021	\$1,528.00
00009736	H2712	PHUONG THUY TRAN	04/01/2021	\$1,600.00
00009737	H1903	THU-HANG TRAN	04/01/2021	\$3,780.00
00009738	H2776	TUAN HUY TRAN	04/01/2021	\$1,270.00
00009739	H1166	TOM TRANG	04/01/2021	\$2,387.00
00009740	H4136	HONG QUANG TRIEU	04/01/2021	\$1,065.00
00009741	H4266	NANCY TRIEU	04/01/2021	\$1,454.00
00009742	H2231	EMMA TRINH	04/01/2021	\$1,147.00
00009743	H4055	HAI TRINH	04/01/2021	\$1,869.00
00009744	H3759	THANH-MAI TRINH	04/01/2021	\$2,097.00
00009745	H4356	TUAN TRINH	04/01/2021	\$1,565.00
00009746	H0536	TUNG XUAN TRINH	04/01/2021	\$1,510.00
00009747	H3993	DUNG T TRUONG	04/01/2021	\$291.00
00009748	H4476	HANH NGOC TRUONG	04/01/2021	\$1,132.00
00009749	H4780	KENNY N TRUONG	04/01/2021	\$1,977.00
00009750	H4162	KHOA BUU TRUONG	04/01/2021	\$1,602.00
00009751	H4575	NATALIE TRUONG, STEVE OR HO	04/01/2021	\$1,733.00
00009752	H2729	QUYEN MY TRUONG	04/01/2021	\$1,416.00
00009753	H1813	CAROLINE TSAI	04/01/2021	\$3,742.00
00009754	H4445	YUNGLIN & SHU-MEI TSAO	04/01/2021	\$1,205.00
00009755	H3867	TU BI THIEN TAM	04/01/2021	\$1,153.00
00009756	H8168	TUDOR GROVE	04/01/2021	\$75,803.00
00009757	H4536	TUSTIN AFFORDABLE HOUSING	04/01/2021	\$1,411.00
00009758	H4030	TUSTIN SOUTHERN APTS - OFFICE	04/01/2021	\$1,460.00
00009759	H9100	V W PROPERTY	04/01/2021	\$4,493.00
00009760	H1541	CONNIE VALDEZ	04/01/2021	\$1,138.00
00009761	H0300	VALLEY VIEW SENIOR APTS	04/01/2021	\$25,055.00
00009762	H0814	MINH XUONG VAN	04/01/2021	\$751.00
00009763	H4661	RONALD VAN	04/01/2021	\$3,313.00
00009764	H2755	ARTURO ENRIQUEZ VAZQUEZ	04/01/2021	\$2,423.00
00009765	H4392	VERSAILLES APTS	04/01/2021	\$2,970.00
00009766	H4809	VINE FULLER, LLC	04/01/2021	\$1,215.00
00009767	H4553	VINTAGE CANYON SR APTS	04/01/2021	\$1,048.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 26

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009768	H4625	VINTAGE FLAGSHIP, LLC	04/01/2021	\$2,745.00
00009769	H3689	VJ SURGICAL, LLC	04/01/2021	\$1,161.00
00009770	H3628	VLE RENTAL, LLC	04/01/2021	\$5,296.00
00009771	H3132	HUNG MINH VO	04/01/2021	\$2,305.00
00009772	H4205	JEFF VO	04/01/2021	\$1,235.00
00009773	H4821	JEFFREY Q VO	04/01/2021	\$1,532.00
00009774	H2134	KHANH MAI VO	04/01/2021	\$4,666.00
00009775	H4531	LOAN VO	04/01/2021	\$1,744.00
00009776	H3938	LOC ANH VO	04/01/2021	\$1,074.00
00009777	H4787	MICKEY VO	04/01/2021	\$2,265.00
00009778	H1481	TINA NGA VOLE	04/01/2021	\$2,261.00
00009779	H3718	NIPA D VORA	04/01/2021	\$2,164.00
00009780	H3907	ANNIE VU	04/01/2021	\$1,387.00
00009781	H2123	DAT VU	04/01/2021	\$16,099.00
00009782	H9104	DAVID VU	04/01/2021	\$1,154.00
00009783	H4098	DEAN VU	04/01/2021	\$1,664.00
00009784	H4632	DEANNA PHUONG VU	04/01/2021	\$929.00
00009785	H4560	HOA VU	04/01/2021	\$1,248.00
00009786	H3918	HUAN VU	04/01/2021	\$1,142.00
00009787	H4657	KRYSTINA VU	04/01/2021	\$1,543.00
00009788	H4197	LEO M VU	04/01/2021	\$1,736.00
00009789	H4323	LINH DUY VU	04/01/2021	\$2,650.00
00009790	H00079	MICHELLE QUYNH HOA VU	04/01/2021	\$2,276.00
00009791	H4549	MINH VU	04/01/2021	\$724.00
00009792	H3760	NAM H VU	04/01/2021	\$1,153.00
00009793	H3274	PHUONG MINH VU	04/01/2021	\$1,470.00
00009794	H4676	QUANG DANG VU	04/01/2021	\$1,086.00
00009795	H3823	TAN DUY VU	04/01/2021	\$2,926.00
00009796	H2823	TRUNG QUOC VU	04/01/2021	\$2,838.00
00009797	H0883	TUONG MANH VU	04/01/2021	\$2,325.00
00009798	H3928	VIVIAN VU	04/01/2021	\$2,653.00
00009799	H4807	YEN T VU	04/01/2021	\$1,839.00
00009800	H00034	HAO DUC VUONG	04/01/2021	\$1,413.00
00009801	H4278	PETER H VUONG	04/01/2021	\$1,559.00
00009802	H4642	DAVID WALD	04/01/2021	\$933.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 27

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00009803	H9105	WALDEN APTS	04/01/2021	\$3,966.00
00009804	H1725	WALDEN GLEN APTS	04/01/2021	\$1,409.00
00009805	H4489	HO PONG WAN	04/01/2021	\$1,096.00
00009806	H2084	CHARLES WANG	04/01/2021	\$4,828.00
00009807	H2253	SUZY WANG	04/01/2021	\$3,161.00
00009808	H4204	WASHINGTON COUNTY HRA	04/01/2021	\$702.43
00009809	H0867	IRVING WEISER	04/01/2021	\$893.00
00009810	H9106	WEISSER INVESTMENTS	04/01/2021	\$7,157.00
00009811	H4530	WESLEY VILLAGE APARTMENTS	04/01/2021	\$5,364.00
00009812	H0442	HENRY B WESSELN	04/01/2021	\$2,779.00
00009813	H1238	WESTCHESTER PARK, LP	04/01/2021	\$1,584.00
00009814	H3468	WESTLAKE APARTMENTS, LLC	04/01/2021	\$7,051.00
00009815	H2684	WESTMINSTER HOUSING PARTNER, LP	04/01/2021	\$8,728.00
00009816	H2986	CINDY OR ED WICK	04/01/2021	\$1,007.00
00009817	H0029	WILLOWICK ROYAL	04/01/2021	\$436.00
00009818	H4424	WILSHIRE CREST	04/01/2021	\$1,700.00
00009819	H4523	WINDMILL APARTMENTS	04/01/2021	\$6,459.00
00009820	H4608	WINDWOOD GLEN APTS	04/01/2021	\$1,659.00
00009821	H9109	WINNIE INVESTMENT	04/01/2021	\$5,819.00
00009822	H3286	WINSTON PLACE, LLC	04/01/2021	\$1,207.00
00009823	H4232	WONDERFUL IDEA, LLC	04/01/2021	\$1,098.00
00009824	H5169	GIN O WONG	04/01/2021	\$7,386.00
00009825	H3592	PHILLIP WONG	04/01/2021	\$1,515.00
00009826	H4709	WOODBIDGE VILLAS APARTMENT HOMES	04/01/2021	\$1,541.00
00009827	H4733	WOODBIDGE VILLAS PARTNERS	04/01/2021	\$1,047.00
00009828	H0165	LEON SHU YAU	04/01/2021	\$457.00
00009829	H4806	JIYUN YEOM	04/01/2021	\$1,901.00
00009830	H4168	HENRY H YOUNG	04/01/2021	\$1,746.00
00009831	H3935	ROY ZARGARI	04/01/2021	\$460.00
00009832	H4596	EUGENIA ZASLAVSKY	04/01/2021	\$4,204.00
00009833	H3730	GEORGE ZHAO	04/01/2021	\$1,454.00
00670219	H4194	WILLIAM ADAMS	04/01/2021	\$1,111.00
00670220	H4534	ALISO VIEJO 621, LP	04/01/2021	\$1,026.00
00670221	H2616	ANAHEIM REVITALIZATION II PART	04/01/2021	\$2,406.00
00670222	H2959	ANAHEIM REVITALIZATION PARTNERS, LP	04/01/2021	\$454.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 28

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00670223	H4705	ANAHEIM REVITALIZATION IV PARTNERS, LP	04/01/2021	\$1,666.00
00670224	H4722	ANAHEIM REVITALIZATION PARTNERS III LP	04/01/2021	\$1,099.00
00670225	H7330	BAHIA VILLAGE MOBILEHOME PARK	04/01/2021	\$921.00
00670226	H00064	BEXAEW THE HAVENS LP	04/01/2021	\$956.00
00670227	H00070	BRIDGE WF CA CRYSTAL VIEW LP	04/01/2021	\$607.00
00670228	H0950	RICHARD BUI JR	04/01/2021	\$3,218.00
00670229	H2035	RICHARD BUI JR	04/01/2021	\$1,211.00
00670230	H3596	JIMMY QUOC BUI	04/01/2021	\$4,336.00
00670231	H4355	LAN HUYNH NGOC BUI	04/01/2021	\$1,250.00
00670232	H0432	PHAT BUI	04/01/2021	\$2,292.00
00670233	H1455	SON MINH BUI	04/01/2021	\$1,297.00
00670234	H4756	TAN H BUI	04/01/2021	\$1,425.00
00670235	H4238	TINH TIEN BUI	04/01/2021	\$694.00
00670236	H0289	RONALD CALKINS	04/01/2021	\$1,436.00
00670237	H9009	CHANTECLAIR APTS	04/01/2021	\$1,153.00
00670238	H2701	DAVID CHEN	04/01/2021	\$1,153.00
00670239	H4584	JOON CHOI	04/01/2021	\$6,686.00
00670240	H4671	ROBERT CHRISTMAN	04/01/2021	\$1,940.00
00670241	H4617	MEI-LING CHU	04/01/2021	\$550.00
00670242	H00054	CITY OF FLAGSTAFF HOUSING AUTHORITY	04/01/2021	\$604.16
00670243	H4773	CMIF III CORONADO PALMS, LLC	04/01/2021	\$1,297.00
00670244	H00098	SONYA CRADER	04/01/2021	\$2,948.00
00670245	H4380	CRESTWOOD ON 7, LLC	04/01/2021	\$2,183.00
00670246	H00072	KHANH DANG	04/01/2021	\$669.00
00670247	H4824	TIM Q DANG	04/01/2021	\$1,884.00
00670248	H0168	STACY HOA TUOI DANG	04/01/2021	\$1,690.00
00670249	H00050	MICHELLE DAO	04/01/2021	\$1,649.00
00670250	H00106	HAROLD E DELONG	04/01/2021	\$1,841.00
00670251	H00067	BIEN T DINH	04/01/2021	\$1,191.00
00670252	H4690	KIM-ANH T DINH	04/01/2021	\$2,274.00
00670253	H4533	MINH TAM DO	04/01/2021	\$1,627.00
00670254	H4693	THO DO	04/01/2021	\$2,570.00
00670255	H4222	THUAN DO	04/01/2021	\$1,172.00
00670256	H3422	DINH T DOAN	04/01/2021	\$834.00
00670257	H00043	MICHAEL DOAN	04/01/2021	\$1,142.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 29

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00670258	H1395	HELMUT DONNER	04/01/2021	\$2,576.00
00670259	H4348	LAN DUONG	04/01/2021	\$1,284.00
00670260	H4187	EL CAMINO LU, LLC	04/01/2021	\$1,073.00
00670261	H4016	ELDEN EAST APARTMENTS	04/01/2021	\$1,021.00
00670262	H3075	EMERALD GARDENS APT	04/01/2021	\$969.00
00670263	H5060	EUCLID PARK APTS	04/01/2021	\$1,493.00
00670264	H4813	FENWAY PROPERTIES	04/01/2021	\$1,427.00
00670265	V00658	FRANCHISE TAX BOARD	04/01/2021	\$356.75
00670266	H2768	DALE A FULLWOOD	04/01/2021	\$992.00
00670267	H00095	CHRIS ANN GARZA	04/01/2021	\$452.00
00670268	H4193	GROVE PARK, LLC	04/01/2021	\$3,346.00
00670269	H1629	MANH MINH HA	04/01/2021	\$1,142.00
00670270	H4386	RICHARD D HANSEN	04/01/2021	\$1,179.00
00670271	H3218	KULJIT HARA	04/01/2021	\$966.00
00670272	H1979	STEVE HARA	04/01/2021	\$6,640.00
00670273	H4703	HERMOSA VILLAGE PHASE I HOUSING PARTNERS, LP	04/01/2021	\$1,085.00
00670274	H4128	THOMAS P HO	04/01/2021	\$1,577.00
00670275	H00071	HOLLY HOANG	04/01/2021	\$1,272.00
00670276	H1873	JAMES HOANG	04/01/2021	\$2,712.00
00670277	H00105	HOUSING AUTHORITY OF THE CITY OF LONG BEACH	04/01/2021	\$5,711.72
00670278	H00107	HOUSING AUTHORITY OF THE CITY OF VANCOUVER	04/01/2021	\$1,446.58
00670279	H3140	CHONG WEI HUANG	04/01/2021	\$1,792.00
00670280	H4810	DOANH HUYNH	04/01/2021	\$1,666.00
00670281	H3473	NATALIE N HUYNH	04/01/2021	\$1,187.00
00670282	H1830	NGHIA TRUNG HUYNH	04/01/2021	\$2,798.00
00670283	H3095	TRANG HUYNH	04/01/2021	\$3,579.00
00670284	H3109	LINDA JOHNSON	04/01/2021	\$1,865.00
00670285	H3337	JOMARC PROPERTIES LTD	04/01/2021	\$9,549.00
00670286	H4579	JOSEPH & KIM CORP	04/01/2021	\$2,420.00
00670287	H2641	KDF HERMOSA, LP	04/01/2021	\$4,674.00
00670288	H3083	KDF MALABAR, LP	04/01/2021	\$37,862.00
00670289	H2403	KDF SEA WIND, LP	04/01/2021	\$1,388.00
00670290	H1217	MARTIN KLEIN	04/01/2021	\$867.00
00670291	H2011	M I KOLSY	04/01/2021	\$684.00
00670292	H3683	WILLIAM KUNZMAN	04/01/2021	\$1,500.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 30

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00670293	H00045	CHRISTINE M LAM	04/01/2021	\$2,094.00
00670294	H4284	LE FAMILY TRUST	04/01/2021	\$4,783.00
00670295	H1638	DON LE	04/01/2021	\$772.00
00670296	H3740	DONALD LE	04/01/2021	\$1,227.00
00670297	H4622	HUY LE	04/01/2021	\$2,347.00
00670298	H3380	NGHIA V LE	04/01/2021	\$2,043.00
00670299	H1531	TRACEY LE	04/01/2021	\$1,242.00
00670300	H1423	VIET Q LE	04/01/2021	\$981.00
00670301	H0298	YENNHI LE	04/01/2021	\$1,372.00
00670302	H0167	BAO GIA LE	04/01/2021	\$2,644.00
00670303	H4132	HOABINH LE-MUNZER	04/01/2021	\$763.00
00670304	H4694	DOUG LEONG	04/01/2021	\$1,277.00
00670305	H0216	ALICE LIAO	04/01/2021	\$2,443.00
00670306	H00066	DAVID A LO	04/01/2021	\$1,718.00
00670307	H4765	BUI LUONG	04/01/2021	\$1,267.00
00670308	H4820	VIVIAN Q LUU	04/01/2021	\$1,871.00
00670309	H0958	WILLIAM T MACDONALD	04/01/2021	\$3,684.00
00670310	H1705	MAGIC LAMP MOBILE HOME PARK	04/01/2021	\$1,242.00
00670311	H1188	LARRY MAH	04/01/2021	\$1,029.00
00670312	H2333	HANH T MAI-NGUYEN	04/01/2021	\$1,345.00
00670313	H1861	TERRY MAMMEN	04/01/2021	\$4,728.00
00670314	H3101	SUPUNNEE MANNIL	04/01/2021	\$2,425.00
00670315	H4675	ZHIYAN MAO	04/01/2021	\$2,517.00
00670316	H2998	JEAN MIYAMOTO	04/01/2021	\$419.00
00670317	H3043	MONARK, LP	04/01/2021	\$4,147.00
00670318	H0780	MONTEJO APARTMENTS	04/01/2021	\$1,586.00
00670319	H2741	ANDREW NGO	04/01/2021	\$2,395.00
00670320	H4184	KIM NGO	04/01/2021	\$899.00
00670321	H2386	MARY NGO	04/01/2021	\$5,672.00
00670322	H2478	HOA KIM NGO	04/01/2021	\$1,673.00
00670323	H0408	NGUYEN'S FAMILY INVESTMENTS, LP	04/01/2021	\$5,380.00
00670324	H4031	BACH THI NGUYEN	04/01/2021	\$1,082.00
00670325	H1184	BICHLE T NGUYEN	04/01/2021	\$3,392.00
00670326	H3176	BOYCE JR NGUYEN	04/01/2021	\$1,769.00
00670327	H00111	CHARLES NGUYEN	04/01/2021	\$2,550.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 31

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00670328	H4776	CHRISTINA M NGUYEN	04/01/2021	\$2,581.00
00670329	H3876	D DUY MD NGUYEN	04/01/2021	\$905.00
00670330	H3910	FRANK M NGUYEN	04/01/2021	\$1,729.00
00670331	H2192	HOC VAN NGUYEN	04/01/2021	\$1,631.00
00670332	H4623	LINDA MAI NGUYEN	04/01/2021	\$1,755.00
00670333	H3676	LOAN THANH NGUYEN	04/01/2021	\$1,122.00
00670334	H4473	MAI NGUYEN	04/01/2021	\$399.00
00670335	H4061	NGUYEN, NICOLE U	04/01/2021	\$1,137.00
00670336	H4728	QUOC KIM NGUYEN	04/01/2021	\$1,568.00
00670337	H4529	STEVEN NGUYEN	04/01/2021	\$1,031.00
00670338	H9044	THANH VAN NGUYEN	04/01/2021	\$2,320.00
00670339	H4682	THUY T NGUYEN	04/01/2021	\$982.00
00670340	H00086	TRINH NGUYEN	04/01/2021	\$1,711.00
00670341	H3103	NICOLE UYEN NGUYEN	04/01/2021	\$1,563.00
00670342	H2879	PAULINE KIMPHUNG NGUYEN	04/01/2021	\$3,789.00
00670343	H2526	SHERRY LIEU NGUYEN	04/01/2021	\$1,160.00
00670344	H1027	TON SANH NGUYEN	04/01/2021	\$1,312.00
00670345	H3114	TRACY NGUYEN	04/01/2021	\$1,345.00
00670346	H2699	THUY-TIEN NGUYEN-TU	04/01/2021	\$2,113.00
00670347	H3404	NORTHWOOD PLACE	04/01/2021	\$4,175.00
00670348	H00041	OLIVIA THANH CAPITALS LLC	04/01/2021	\$2,013.00
00670349	H4644	PALMA VISTA APTS, LLC	04/01/2021	\$1,356.00
00670350	H2739	CHONG PIL PARK	04/01/2021	\$908.00
00670351	H3551	SUWAPANG PATTUMMADITH	04/01/2021	\$1,427.00
00670352	H4351	PAVILION PARK SENIOR 1 HOUSING PARTNERS, LP	04/01/2021	\$3,297.00
00670353	H4582	ANH THI PHAM	04/01/2021	\$1,563.00
00670354	H4800	DAVID VU PHAM	04/01/2021	\$1,599.00
00670355	H3817	QUYEN PHAM	04/01/2021	\$1,002.00
00670356	H2419	THANH PHAM	04/01/2021	\$384.00
00670357	H1049	TUNG PHAM	04/01/2021	\$1,539.00
00670358	H1851	LOAN ANH THI PHAM	04/01/2021	\$1,287.00
00670359	H4786	HUNG PHAN	04/01/2021	\$2,639.00
00670360	H4624	VAN KHANH PHAN	04/01/2021	\$1,430.00
00670361	H00026	PLATINUM TRI BLOC, LLC	04/01/2021	\$1,545.00
00670362	H4509	PLAZA WOODS, LLC	04/01/2021	\$4,958.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
Check Dates Apr 1, 2021

Report Generated on Apr 4, 2021 5:57:34 PM

Page 32

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00670363	H4535	PORTOLA IRVINE, LP ANTON PORTOLA APARTMENTS	04/01/2021	\$1,334.00
00670364	H3801	RANCHO ALISAL	04/01/2021	\$1,703.00
00670365	H4353	RAYMOND AND LYNN RUAIS	04/01/2021	\$618.00
00670366	H00110	SAN DIEGO HOUSING COMMISSION	04/01/2021	\$4,642.86
00670367	H3488	CELESTE SCHWERMANN	04/01/2021	\$1,070.25
00670368	H4448	SE AMSTER	04/01/2021	\$1,133.00
00670369	H4241	SILO NORTHEAST, LLC	04/01/2021	\$2,992.00
00670370	H4811	STONECREST POINT APTS	04/01/2021	\$1,805.00
00670371	H4590	CATHY TA	04/01/2021	\$2,354.00
00670372	H4409	TERESINA APARTMENTS	04/01/2021	\$1,179.00
00670373	H00113	THE HUNTINGTON PARTNERSHIP	04/01/2021	\$2,182.00
00670374	H3041	THE KNOLLS	04/01/2021	\$453.00
00670375	H4578	THE OVERLOOK	04/01/2021	\$1,464.00
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00670377	H1959	THOMSON EQUITIES	04/01/2021	\$1,243.00
00670378	H6710	THOMSON EQUITIES	04/01/2021	\$2,177.00
00670379	H00024	TIC INVESTMENT COMPANY, LLC	04/01/2021	\$2,037.00
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00670381	H4726	TIC INVESTMENT COMPANY, LLC	04/01/2021	\$4,893.00
00670382	H4616	VINH THAT TON	04/01/2021	\$1,667.00
00670383	H00075	IVY TONNU-MIHARA	04/01/2021	\$1,379.00
00670384	H3577	EDWARD T TRAN	04/01/2021	\$962.00
00670385	H4688	ERIC TRAN	04/01/2021	\$1,158.00
00670386	H4788	LONG QUOC TRAN	04/01/2021	\$1,529.00
00670387	H3686	LIEN KIM TRAN-NGUYEN	04/01/2021	\$964.00
00670388	H4422	TRG FULLERTON AFFORDABLE, LP / VENTANA APARTMENTS	04/01/2021	\$856.00
00670389	H4493	TRANG N TRINH	04/01/2021	\$1,270.00
00670390	H00056	LUCKY LUC TRUONG	04/01/2021	\$1,230.00
00670391	H2187	THUAN BICH TRUONG	04/01/2021	\$1,268.00
00670392	H2335	THUAN BICH TRUONG	04/01/2021	\$3,770.00
00670393	H2410	SON BICH TRUONG	04/01/2021	\$2,001.00
00670394	H0146	ANGELO S TURI	04/01/2021	\$2,546.00
00670395	H2982	MARCO VELASTEGUI	04/01/2021	\$1,427.00
00670396	H3943	VILLA CAPRI ESTATES	04/01/2021	\$1,844.00

CITY OF GARDEN GROVE
FEFM001 Warrant Register
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Page 33

Check	Vendor #	Vendor Name	Issue Date	Check Amount
00670397	H2717	THUA VINH	04/01/2021	\$719.00
00670398	H4662	VISTA DEL SOL APARTMENTS	04/01/2021	\$1,312.00
00670399	H9103	VISTA DEL SOL APTS	04/01/2021	\$1,082.00
00670400	H1723	KIMCHI VO	04/01/2021	\$1,646.00
00670401	H4338	NAM T VO	04/01/2021	\$509.00
00670402	H4327	THIEN T VO	04/01/2021	\$1,555.00
00670403	H3476	TIN TRUNG VO	04/01/2021	\$1,100.00
00670404	H1805	VPM BRIDGES APTS	04/01/2021	\$379.00
00670405	H3637	VPM MANAGEMENT	04/01/2021	\$1,160.00
00670406	H3088	VPM SHER LANE, LP	04/01/2021	\$1,189.00
00670407	H00065	HUNG TRONG VU	04/01/2021	\$1,856.00
00670408	H00074	SU T VU	04/01/2021	\$1,752.00
00670409	H2900	DANNY VU	04/01/2021	\$1,664.00
00670410	H0719	NEIL E WEST	04/01/2021	\$1,297.00
00670411	H00078	WHITING DEVELOPMENT LLC	04/01/2021	\$525.00
00670412	H1934	WINDSOR-DAWSON, LP	04/01/2021	\$5,310.00
00670413	H3429	WINDWOOD KNOLL APARTMENTS	04/01/2021	\$2,353.00
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00670415	H3506	WOODBURY SQUARE	04/01/2021	\$1,584.00
00670416	H0173	VINCE YIANG	04/01/2021	\$1,272.00
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			Check:	198 \$405,507.32
			Total:	1,135 \$3,099,338.39

City of Garden Grove

INTER-DEPARTMENT MEMORANDUM

To:	Scott C. Stiles	From:	Lisa L. Kim
Dept.:	City Manager	Dept.:	Community and Economic Development
Subject:	Adoption of a Resolution approving and adopting the 2020 Urban Forest Management Plan, and the introduction and first reading of an Ordinance amending Chapter 11.32 of the Municipal Code.		
		Date:	5/11/2021

OBJECTIVE

For City Council to approve the Urban Forest Management Plan (UFMP); and, to introduce and conduct the first reading of an Ordinance amending Chapter 11.32 of the Garden Grove Municipal Code.

BACKGROUND

In March 2018, the City was awarded a grant from California Department of Forestry and Fire Protection (CAL FIRE) in the amount of \$573,931.00 to undertake a series of tasks with the purpose of reducing local greenhouse gas. The CAL FIRE grant incorporated the following scope of work: development of a comprehensive UFMP; City Tree Ordinance update; canopy cover assessment; and, greenhouse gas calculations related to 363 trees planted along the four segments of the Medal of Honor Bike and Pedestrian trail from Nelson to Brookhurst Street.

In June 2019, the City awarded a contract to Davey Resource Group, Inc. (Davey Resource) to complete the UFMP, Tree Ordinance update, canopy cover assessment, and greenhouse gas calculations.

It should be noted a portion of the grant funded the landscaping (363 trees) and the irrigation system along the Medal of Honor Bike and Pedestrian trail.

DISCUSSION

Over the past ten months, staff worked closely with the Davey Resources to initiate the draft UFMP. During the planning process, Davey Resources reviewed the City's tree inventory, forestry practices, and met with city stakeholders, including various

city departments, and the collective feedback were incorporated into the UFMP as the vision, concepts, goals, objectives, and actions. Additional outreach efforts included community meetings, on-line and in-person surveys, several in-person events in City parks and a city-wide tree art contest for K-12 Garden Grove students to educate them regarding the importance of trees.

The 2020 UFMP is now complete and will ultimately serve as a guide to manage, enhance, and grow the Garden Grove urban forest and the community tree resource for the next 40 years. The City's urban forest incorporates a city-wide tree inventory consisting of publicly managed trees along streets, parks, and at City-owned facilities along with the canopy cover assessment. While the UFMP is primarily focused on the stewardship of the community tree resource, the UFMP considers private trees as they contribute significantly to Garden Grove's livability and environmental quality. Highlighted are a few of the UFMP objectives:

- Identify best management practice that support the health, benefits, and safety of the community trees;
- Increase health and resiliency of the urban forest by improving species diversity, and managing pests and invasive species;
- Develop a cohesive organizational structure to facilitate collaboration for managing the urban forest;
- Nurture an urban forest among City Staff, community organization, residents, and businesses; and,
- Identify baseline metrics and clear goals for City Staff.

A primary emphasis for the UFMP is to identify adequate resources to ensure that critical tree care needs can be addressed in a timely, cost-effective, and efficient manner. This includes the proactive identification of potential hazards and risks and mitigation measures to promote public safety and reduce liability. The UFMP further identifies goals and actions for improving tree health, increasing species diversity, minimizing tree risks, optimizing urban forest programming, existing funding, staffing, and urban forest policy.

The CAL FIRE grant also involves an update to the City's Tree Ordinance. From the UFMP process, recommendations were drafted to amend Chapter 11.32 of the Municipal Code to align the City efforts to manage, enhance, and grow the Garden Grove urban forest and the community tree resource for the next 40 years. A redlined version of the ordinance showing the revisions to the existing regulations is attached for your review and reference.

FINANCIAL IMPACT

Adoption of the UFMP and Tree Ordinance Update will have no fiscal impact to the City.

RECOMMENDATION

It is recommended that the City:

- Adopt the Resolution approving and adopting the 2020 Urban Forest Management Plan; and,
- Conduct the first reading of and introduce the attached Ordinance amending Chapter 11.32 of the Garden Grove Municipal Code.

ATTACHMENTS:

Description	Upload Date	Type	File Name
Exhibit A - City of Garden Grove Urban Forest Management Plan	4/28/2021	Cover Memo	Exhibit_A_-_City_of_Garden_Grove_Urban_Forest_Management_Plan.pdf
Exhibit B - UFMP Resolution	4/28/2021	Cover Memo	Exhibit_B_-_UFMP_Resolution.docx
Exhibit C - Ordinance Amending GGMC Chapter 11.32 Trees	4/28/2021	Cover Memo	Exhibit_C_-_Ordinance_Amending_GGMC_Chapter_11.32_Trees.DOCX
Exhibit D - GGMC Chapter 11.32 Trees 2021	4/28/2021	Cover Memo	Exhibit_D_-_GGMC_Chapter_11.32_Trees_2021.DOCX
Exhibit E - GGMC Chapter 11.32 Trees redlines	5/6/2021	Cover Memo	Exhibit_E_-_GGMC_Chapter_11.32_Trees_2021_redlines_(3).pdf

Garden Grove

CALIFORNIA



URBAN FOREST MANAGEMENT PLAN

2020

“LANDSCAPES OF GREAT WONDER AND BEAUTY LIE UNDER OUR FEET
AND ALL AROUND US. THEY ARE DISCOVERED IN TUNNELS IN THE
GROUND, THE HEART OF FLOWERS, THE HOLLOW OF TREES, FRESH
WATER PONDS, SEAWEED JUNGLES BETWEEN TIDES, AND EVEN DROPS
OF WATER.”

WALT DISNEY





PREPARED FOR:
CITY OF GARDEN GROVE
11222 ACACIA PARKWAY
GARDEN GROVE, CA 92840

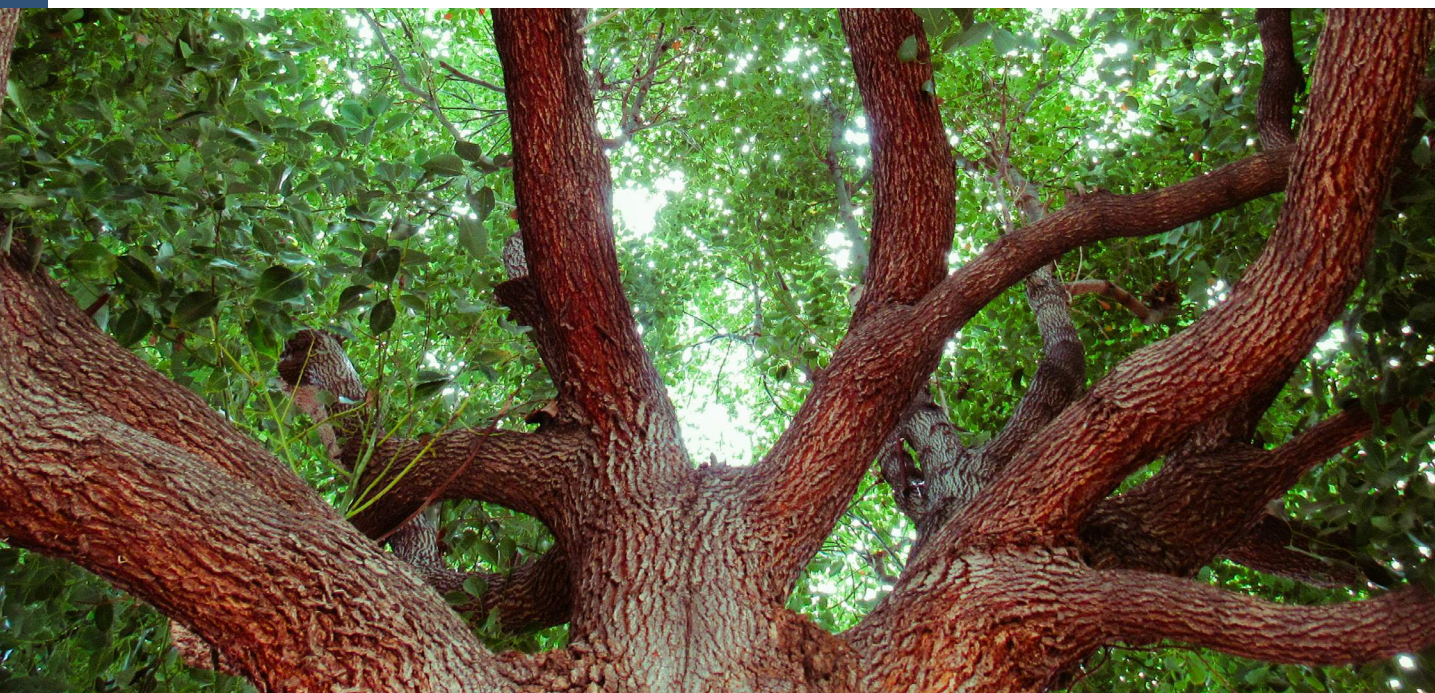


PREPARED BY:
DAVEY RESOURCE GROUP INC.
1500 N MANTUA STREET
KENT, OH 44240-5193



FUNDING FOR THIS PROJECT WAS PROVIDED BY
THE CALIFORNIA DEPARTMENT OF FORESTRY AND
FIRE PROTECTION AS PART OF THE CALIFORNIA
CLIMATE INVESTMENTS PROGRAM.





“I SPEAK FOR THE TREES, FOR
TREES HAVE NO TONGUES.”

DR. SEUSS, THE LORAX



TABLE OF CONTENTS

SCOPE AND PURPOSE viii

EXECUTIVE SUMMARY1

What do we have? 2

Garden Grove's Urban Forest Benchmark
Values 3

What do we want? 4

How do we get there? 4

How are we doing? 4

INTRODUCTION 6

Community 7

Tree and Canopy Benefits 8

WHAT DO WE HAVE?14

History of the Urban Forest 14

The Stanley Ranch 15

Urban Forest Resource 16

Trees Division Operations 24

Trees and Sewer 30

Internal Partners 38

External Partners 41

Policy and Regulation 43

Orange County's Urban Forest Grand
Jury Report 49

Conclusion 52

WHAT DO WE WANT? 54

Managing Partners 54

Advisory Group 56

Community Engagement 57

Online Community Survey 58

Plan Goals and Actions 60

HOW DO WE GET THERE? 64

Focus Area: Comprehensive and efficient
tree care operations 69

Focus Area: Practices and policies related
to the community tree resource 75

Focus Area: Environmental, social,
and economic benefits of trees 81

Focus Area: Community outreach and
collaboration 88

HOW ARE WE DOING? 92

Monitoring and Measuring Results 92

APPENDIX A: TERMS AND DEFINITIONS 95

APPENDIX B: REFERENCES 101

APPENDIX C: INDUSTRY STANDARDS 106

ANSI Z133 Safety Standard, 2017 106

ANSI A300 106

Best Management Practices (BMPs) 106

APPENDIX D: TREE REMOVAL CHECKLIST 110

APPENDIX E: TREE PROTECTION IN CONSTRUCTION ZONES 113

Construction Site Management 113

Best Management Practices 113

Mitigating Tree and Infrastructure
Conflicts 118

Removal of Pavement or Sidewalk 118

Replacement of Pavement or Sidewalk 118

Alternative Methods to Reduce Root
Pruning 118

Training 119

APPENDIX F: SOIL VOLUME AND TREE STATURE 126

APPENDIX G: ALTERNATIVE PLANTER DESIGNS 128

APPENDIX H: COMMUNITY SURVEY 133

APPENDIX I: INDICATORS OF A SUSTAINABLE URBAN FOREST FOR GARDEN GROVE 157

APPENDIX J: GANTT CHART 162

APPENDIX K: PHOTO CREDITS 164

ACKNOWLEDGMENTS

GARDEN GROVE CITY COUNCIL

Steve Jones, Mayor

John R. O'Neill, Mayor Pro Tem

*District 1: George S. Brietigam III,
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*District 3: Diedre Thu-Ha Nguyen,
Council Member*

District 4: Patrick Phat Bui, Council Member

*District 5: Stephanie Klopfenstein,
Council Member*

District 6: Kim B. Nguyen, Council Member

Scott C. Stiles, City Manager

Maria Stipe, Assistant City Manager

*Lisa L. Kim, Assistant City Manager/
Community and Economic Development
Director*

GARDEN GROVE PLANNING COMMISSION

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District 5: Daisy Perez, Vice Chair

District 1: Dale Soeffner, Commission Member

District 1: Josh Lindsay, Commission Member

*District 2: John Ramirez, Commission
Member*

District 5: Christy Le, Commission Member

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Paul Guerrero

Alana Cheng

Priit Kaskla

DEPARTMENT OF COMMUNITY SERVICES

Jennifer Goddard Nye

COMMUNITY PARTICIPANTS

*Special thanks to community members that
participated in outreach events and the
community survey.*

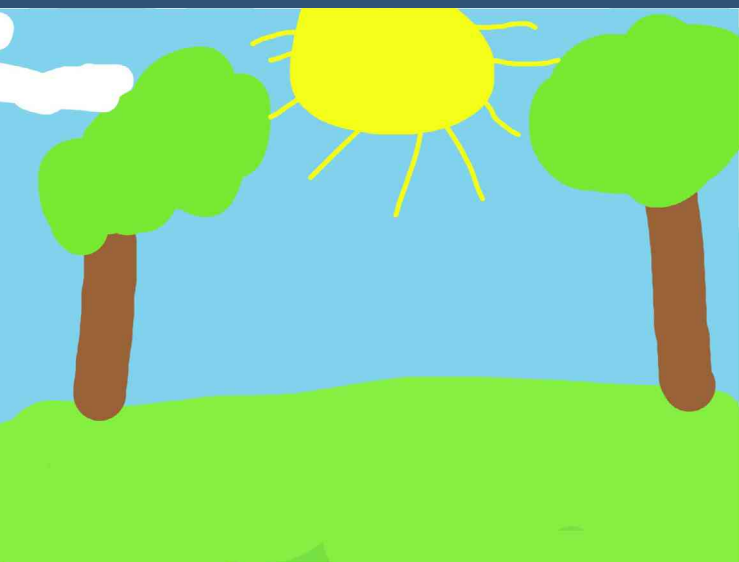
PHOTO CREDITS:

City of Garden Grove

Davey Resource Group, Inc.

Tree Art Contest

As part of the development of the UFMP, the city of Garden Grove organized the “Tree Art Contest,” an art and photo contest for youth. The city partnered with Garden Grove Unified School District and the Boys and Girls Club to provide outreach for the art contest. It was featured as part of the “2nd Annual Art in the Park” event. The city created the contest to highlight the different ways that Garden Grove residents appreciate and celebrate the city’s urban forest. A total of 12 photograph entries and 85 pieces of artwork were submitted to the city’s tree art contest. Many of the photos and artworks are included throughout this document.



• Scope and Purpose

The purpose of the Urban Forest Management Plan (UFMP) is to provide a guide for managing, enhancing, and growing Garden Grove's community tree resource over the next 40 years. Community, or city, trees are publicly managed trees along streets (public rights-of-way), in city parks, and on city-owned facilities. The UFMP includes goals for long-range planning to promote sustainability, species diversity, and greater canopy cover. The UFMP also provides some consideration for private trees because they contribute significantly to Garden Grove's livability and environmental quality.

The UFMP aims to:

- Identify best management practices that support tree health, benefits, and community safety.
- Increase the health and resiliency of the urban forest by improving species diversity, and by managing pests and invasive species.
- Develop a cohesive organizational structure to facilitate collaboration for managing the urban forest.
- Nurture an environment of stewardship for the urban forest among city staff, community organizations, residents, and businesses.
- Identify baseline metrics and clear goals for urban forest managers.
- Promote community engagement and advocacy for the urban forest.

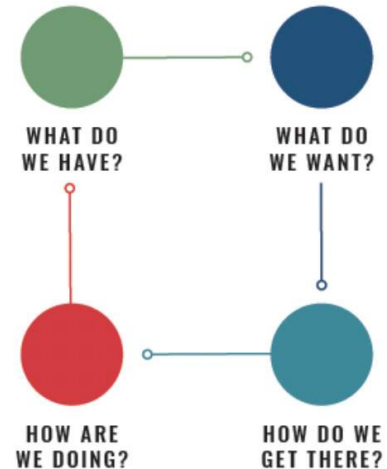
The UFMP provides specific goals and actions for managing community trees, preserving, and increasing canopy cover, and improving community outreach. The UFMP includes both long and short-term actions in support of these ends.



• Executive Summary

Garden Grove's community urban forest includes 17,210 public-managed trees along streets, parkways, and medians, in city parks and open space, and at city-owned facilities. Along with their aesthetic contribution, these trees provide valuable and critical services to the community including benefits to air quality, water quality, stormwater management, energy savings, wildlife habitat, and socioeconomics. The Urban Forest Management Plan (UFMP) serves as a road map that identifies long- and short-term management goals to effectively preserve and enhance the environmental benefits provided by this critical infrastructure.

The UFMP's structure is based on the understanding of What we have, What we want, How we get there, and How we are doing. This structure, known as **adaptive management**, is commonly used for resource planning and management (Miller, 1988) and provides a conceptual framework for the process of improving urban forest management.



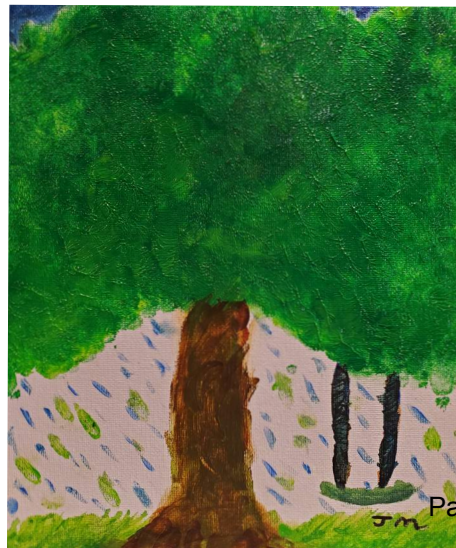
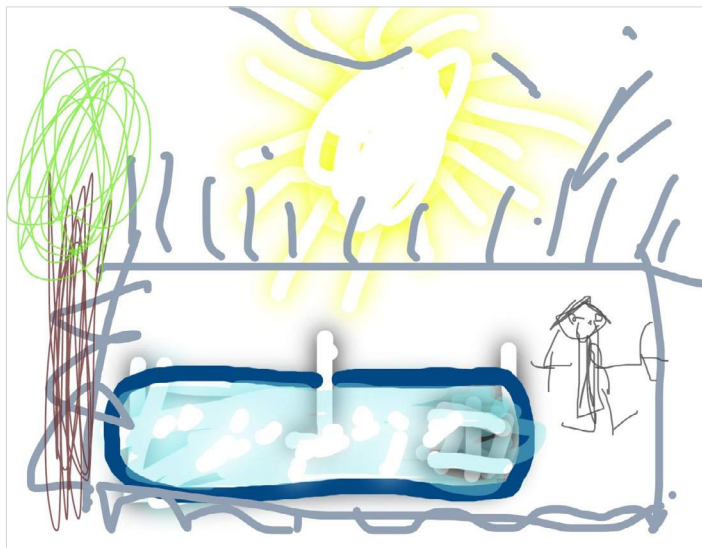
What do we have?

The UFMP development process included a comprehensive review and assessment of the existing urban forest resource, including canopy cover, composition of the community urban forest, environmental benefits, and value. As of January 2020, the city's Public Works Department, Trees Services Division, manages a total of 17,210 community trees. Annually, Garden Grove's community trees provide environmental benefits to the community valued at \$125,795, an average \$731 per tree. Over half of the environmental benefits are attributed to pollution removal at \$74,381, with carbon sequestration at \$45,426, and avoided stormwater runoff at \$5,987 (Garden Grove Urban Forest Resource Analysis, 2020). These conservative estimations are for only community trees and do not include the benefits from trees located on private property. Ongoing research continues to affirm that trees and natural systems are critical to the health and well-being of human communities. However, many of these benefits are intrinsic and can be difficult to quantify.

A Tree Canopy Assessment of the city (2019) found an average of 7.9% tree canopy and 72.9% impervious surface across the community. Tree canopy (public and private) was mapped to benchmark the extent and distribution in a Geographic Information Survey (GIS) layer that can be explored with other data, including demographics and land use, to analyze relationships and track change over time.

The planning process explored community values and vision, including those expressed in guiding documents, including Garden Grove's General Plan, Active Streets Master Plan, Active Downtown Plan, city ordinance, state law, and other regulatory and policy documents. The process also evaluated funding and current service levels, including programs coordinated by city departments that play a role in managing or planning for the urban forest. In addition to the Trees and Streets Division, many internal and external stakeholders play a role in the planning, design, care, and advocacy of the urban forest. Stakeholders include city departments, utility providers, and community members. Each of these stakeholders played a role and provided input for the development of this plan.

Title 11 of the Garden Grove Municipal Code regulates protection of public trees from harmful pollutants, electrical conflicts, and construction. The Trees and Streets Division works with other city departments to protect, preserve, and manage community trees. The Trees Division is responsible for planting trees, pruning for clearance and visibility, addressing service requests, and emergency response. Regular maintenance, including crown cleaning and structural pruning, along with large tree removals is contracted.



Since the recession in 2008, City budget cuts have reduced staff in the Trees Division and impacted tree planting efforts for new and replacement trees. Many mature trees have been removed over time and replanting has been limited due to insufficient resources (staff and funding) as well as concerns for long-term maintenance costs and planting space. However, with renewed interest in the sustainability and benefits of the urban forest, planting has increased in recent years from approximately 50 trees to 520 trees per year. The review process identified opportunities and challenges facing the Garden Grove's urban forest, most notably, infrastructure conflicts and a maturing community tree resource that will require more frequent maintenance as trees age. Additionally, opportunities exist to facilitate greater interdepartmental communication, particularly around resolution of conflicts between trees and other infrastructure.

With established benchmarks and an appreciation for the value of the urban forest, along with continued support from city leadership, Garden Grove has a strong foundation for protecting and enhancing the urban forest and ensuring that the community continues to benefit from this critical natural resource.

Garden Grove's Urban Forest Benchmark Values

Community Urban Forest (Public Tree Resource)

Public trees (2019)	17,210 trees
---------------------	--------------

Species Diversity (Public Trees, 2019)

Total number of unique species	234
Prevalence of top ten species	61.0%
Species exceeding recommended 10%	1

Urban Tree Canopy Cover (Public and Private, 2019)

Overall canopy cover	7.9%
Impervious surfaces	72.7%
Canopy cover – Parks and Open Space	16.9%

Canopy Benefits¹ (Public, 2019)

Carbon stored to date	6,235 tons	\$1.1 million
Annual carbon benefits	266 tons	\$45,426
Annual air quality benefits	10,086 pounds	\$74,381
Annual stormwater benefits	670,038 gallons	\$5,897

¹ These are a subset of the quantifiable benefits trees provide and do not account for energy savings, benefits to wildlife, property values, and contributions to public health and welfare.



What do we want?

The UFMP planning process engaged City staff and community members to better understand their vision and ideas for the future of Garden Grove's urban forest. Stakeholders indicated the following topics were important considerations for the UFMP:

- Provide adequate care for right-of-way trees, including regular inspection, young tree care, and maintenance to address public safety.
- Increase the average tree canopy cover to 15%.
- Update language in the Municipal Code and other policies relating to street trees, including enhanced protections and improvements to clarity.
- Create a comprehensive tree planting plan, including a plan to revitalize landscaping in transition areas throughout the city.
- Restore irrigation to community trees.
- Increase the level of community engagement.
- Address existing and future conflicts with grey infrastructure.
- Provide adequate resources, including funding, to realize community goals for the urban forest.

How do we get there?

The UFMP identifies goals, objectives, and actions to ensure that the community's vision is realized in the future urban forest. Initiatives include following industry standards and best management practices in the care and maintenance of community trees, optimizing operations and funding, facilitating greater interdepartmental coordination, and enhancing community outreach and partnerships.

Goals and existing policies are consolidated into four areas of focus:

- Comprehensive and efficient tree care operations
- Practices and policies related to the community tree resource
- Environmental, social, and economic benefits of trees
- Community outreach and collaboration

Each goal is supported by comprehensive objectives and actions.

How are we doing?

The long-term success of the Urban Forest Management Plan (UFMP) will be measured through the realization of plan goals and demonstrated through increased value and environmental services from the urban forest. The UFMP identifies methods of measurement, priorities, potential partners, and estimated costs for each objective. Since the UFMP is intended to be a dynamic tool, it can and should be updated in response to available resources and opportunities. One of the greatest measures of success for the UFMP will be its level of achievement in meeting community expectations for the care and preservation of Garden Grove's urban forest.



Focus	Goals and Existing Policies	Objectives
Comprehensive and efficient tree care operations	<p>Goal 1: Plan for trees before planting.</p> <p>Goal 2: Support tree health and good structure.</p> <p>Goal 3: Repurpose woody materials wherever possible.</p> <p>Existing Policy 1: Understand the structure and composition of Garden Grove's community tree resource.</p>	<ul style="list-style-type: none"> • Set emphasis on the Right Tree in the Right Place. • Develop planter improvement and design strategies for mitigating conflicts and increasing soil volume. • Ensure community trees are maintained according to industry standards to promote tree health, longevity, and public safety. • Establish a risk management policy. • Employ multiple tools and strategies to prevent and/or manage pests and pathogens. • Identify a wood reutilization policy. • Maintain a tree inventory that can be used to manage the community tree resource.
Practices and policies related to the community tree resource	<p>Goal 4: Increase uniformity between City policies, documents, and departments.</p> <p>Goal 5: Recognize trees as essential green infrastructure.</p> <p>Existing Policy 2: Promote a culture of safety.</p>	<ul style="list-style-type: none"> • Communicate and coordinate with other city departments. • Unify guiding documents to transcend departmental changes, promote consistency, and shared vision. • Plan for trees to limit future grey infrastructure conflicts. • Create and enforce policies that protect trees. • Implement policies and procedures that make that tree work as safe as possible. • Encourage employees to engage in professional development.
Environmental, social, and economic benefits of trees	<p>Goal 6: Promote tree preservation and protection.</p> <p>Goal 7: Enhance community aesthetics.</p> <p>Goal 8: Expand and diversify tree canopy to increase the environmental benefits received by the community.</p> <p>Existing Policy 3: Encourage the establishment of trees through efficient and sustainable irrigation solutions.</p>	<ul style="list-style-type: none"> • Revise and amend Municipal Code to promote the protection of community trees. • Monitor contractor services. • Optimize the Trees Division to address maintenance needs. • Monitor for pests and pathogens. • Encourage the expansion of the urban forest through tree plantings on public property. • Encourage the expansion of the urban forest through tree plantings on private property. • Reach 15% tree canopy cover by 2040. • Promote species diversity to build a more sustainable community tree resource. • Promote the efficient use of tree planting funds. • Support established and mature trees. • Establish a more water-wise urban forest. • Ensure trees receive adequate water.
Community outreach and collaboration	<p>Goal 9: Celebrate the importance of urban trees.</p> <p>Goal 10: Support community engagement and stewardship of the urban forest.</p>	<ul style="list-style-type: none"> • Re-establish the Tree City USA designation. • Promote the Urban Forest Management Plan. • Update the website for the Trees & Flood Control Section on the city Website. • Encourage community involvement and stewardship for the urban forest. • Encourage the expansion of the urban forest through tree plantings on both public and private property. • Support the formation of a community-led tree advocacy group.



• Introduction

Garden Grove, the “City of Youth and Ambition”, is home to nearly 177,000 people (Southern California Association of Governments, 2018). Originally, the area was coastal sage scrub land, and then transformed from a small farming community featuring chili peppers, oranges, walnuts, and strawberries, to an urban center. Garden Grove is a community that celebrates its agricultural history. The Strawberry Festival is an annual event in Garden Grove. This festival was first celebrated in 1958 and features community events, local vendors, artisans, and festival rides. The Strawberry Festival is the largest municipal event held in California and the second largest west of the Mississippi River. In addition, the Strawberry Festival provides charitable funding to many local organizations (Garden Grove Strawberry Festival, 2020).

The city was named by its founder, Alonzo Cook. Although the city’s name was initially criticized for the absence of trees, soon after, orange groves and diverse trees were planted. Cook’s vision to “make it appropriate by planting trees and making it beautiful” was realized (Amor, 1921). Garden Grove’s prominent landmark is the Christ Cathedral (formerly known as Crystal Cathedral) located on a 34-acre campus featuring buildings designed by Philip Johnson (cathedral), Richard Neutra (13-story Tower of Hope), and Richard Meier (Cultural Center). Garden Grove is neighbor to the Disneyland Resort, and home to Walt Disney’s garage animation studio, which was moved from Los Angeles to the historic Stanley Ranch (Haire, 2015).

Garden Grove experiences a local steppe climate with minimal rainfall (~13 inches annually). According to Sperling’s Best Places to Live, Garden Grove has a comfort index of 9.3 (10 being the best), with 275 days of sunshine, average summer highs of 83.3°F, and average winter lows of 46.3°F (2019).

Community

Garden Grove is located in Northern Orange County, situated in the Los Angeles metropolitan area, 34 miles southeast of Los Angeles and due south of the Disneyland Resort. State Route 22, the Garden Grove Freeway, passes through the city in an East-West direction. Garden Grove is a diverse community with numerous local amenities and recreational opportunities nearby such as, beaches, regional parks, and ecological reserves (AreaVibes, 2020).



GARDEN GROVE HISTORY

The Tongva, Juaneño, and Luiseño tribes were the first known people to call the area that is now Garden Grove “home” (Middlebrook, 2020). These hunter gatherers were thought to have displaced or assimilated with people already present in Southern California an estimated 3,500 years before Spanish colonization. The Spanish encouraged colonization and assimilation with the tribes, which ultimately led to their collapse (Sutton, 2009).

1700s

The area of Garden Grove was explored in 1769 during the expedition of Gaspar de Portola and was originally part of the Spanish land grant, Rancho Los Nietos in 1784.

1800s

Among the first to settle the area that is present-day Garden Grove, Abel Stearns, purchased Rancho Las Bolsas and in 1868 began to subdivide the land (City of Garden Grove, 1986). Later, in 1874, Alonzo Cook purchased 160 acres and officially settled the city and began a small farming community, naming the town Garden Grove. The population was around 200 people in 1889 (City of Garden Grove, n.d.).

1900s

Up until the arrival of the railroad in 1905, the community remained small. The railway contributed to the boom of agricultural crops, with the ability to transport chilis, oranges, walnuts, and strawberries across the country. The early 1900s gave rise to many citrus associations, including Garden Grove Citrus, a packing house at Garden Grove, as well as historical figures that advanced citrus production (Amor, 1921).

In 1916, after heavy torrential rains, the Santa Ana River and Santiago Creek overflowed and flooded the city. As a result of the flooding, several people died, miles of railroad tracks were destroyed and trees were uprooted (Tortolano, 2015).

The Long Beach earthquake in 1933 was a 6.4 magnitude earthquake and one of Southern California’s deadliest earthquakes. It resulted in the destruction of many older sections and buildings of the city, yet some of the original historic buildings that remained along Main Street are in the Stanley Ranch.

After World War II, the city experienced another population boom when servicemen from nearby Southern California Military Bases settled into surrounding communities to look for work and start families. Following the end of WWII, the Korean War, and the fall of Saigon many Vietnamese, Chinese, and Koreans immigrated to the city, contributing greatly to the local culture. The city of Garden Grove was incorporated in 1956 with a population of 44,000 (City of Garden Grove, n.d.).

2000s

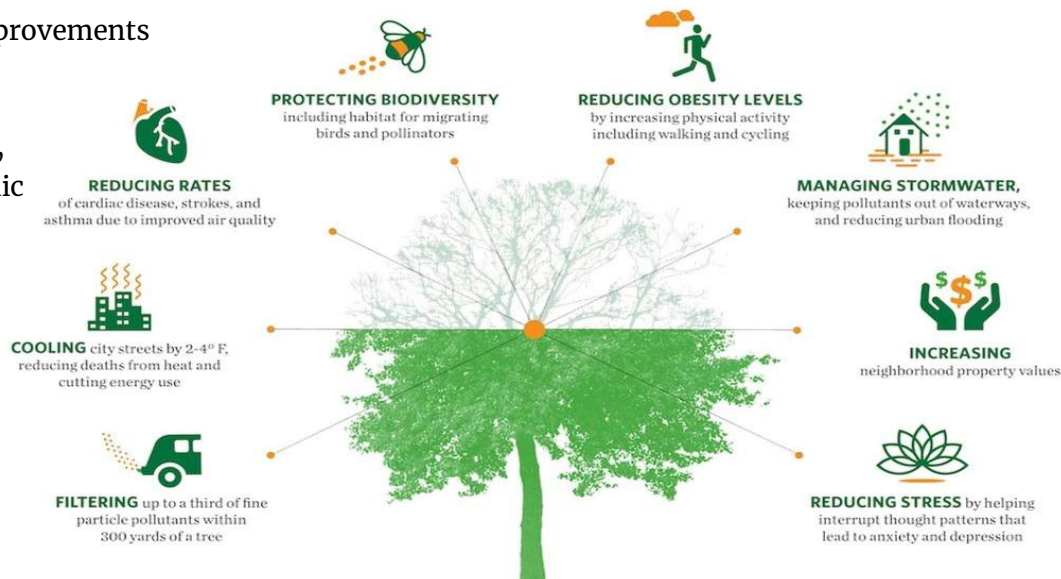
Current economic trends show that Garden Grove has continued to prosper. The community has had increases in employment, retail sales, building improvements, and building permits that have accommodated new developments including hotel high-rises and residences (Southern California Association of Governments, 2018). Homeownership in Garden Grove is above average for Orange County and although built out, redevelopment and improvements occur regularly.



Tree and Canopy Benefits

Trees in the urban forest work continuously to mitigate the effects of urbanization and development as well as protect and enhance lives within the community. Healthy trees are vigorous, producing more leaf surface and canopy cover each year. The amount and distribution of leaf surface area are the driving forces behind the urban forest's ability to produce services for the community (Clark et al. 1997). Services (i.e., benefits) include:

- Air quality improvements
- Carbon dioxide reductions
- Water quality improvements
- Energy savings
- Health, aesthetic, and socioeconomic benefits
- Wildlife



The Benefits of Urban Trees. THE NATURE CONSERVANCY

AIR QUALITY

Trees improve air quality in five fundamental ways:

- Lessening particulate matter (e.g., dust and smoke)
- Absorbing gaseous pollutants
- Providing shade and transpiring
- Reducing power plant emissions by decreasing energy demand among buildings
- Increasing oxygen levels through photosynthesis

Trees protect and improve air quality by intercepting particulate matter (PM₁₀) including dust, pollen, and smoke. The particulates are filtered and held in the tree canopy until precipitation rinses the particulates harmlessly to the ground. Trees absorb harmful gaseous pollutants like ozone (O₃), nitrogen dioxide (NO₂), and sulfur dioxide (SO₂). Shade and transpiration reduce the formation of O₃, which is created at higher temperatures. Scientists are now finding that some trees may absorb more **volatile organic compounds (VOCs)** than previously thought (Karl, 2010; McPherson and Simpson, 2010). VOCs are carbon-based particles emitted from automobile exhaust, lawnmowers, and other human activities.



CARBON DIOXIDE REDUCTION

As environmental awareness increases, governments are paying more attention to the effects of **greenhouse gas (GHG)** emissions and concerns about climate change. As energy from the sun (sunlight) strikes the Earth's surface, it is reflected into space as infrared radiation (heat). Greenhouse gases absorb some of this infrared radiation and trap this heat in the atmosphere, increasing the temperature of the Earth's surface. Many chemical compounds in the Earth's atmosphere act as GHGs, including methane (CH_4), nitrous oxide (N_2O), carbon dioxide (CO_2), water vapor, and human-made gases/aerosols. As GHGs increase, the amount of energy radiated back into space is reduced and more heat is trapped in the atmosphere. An increase in the average temperature of the earth can result in changes in weather, sea levels, and land use patterns, as well as localized changes that impact the suitability of some trees and other plant species to a specific region. In the last 150 years, since large-scale industrialization began, the levels of some GHGs, including CO_2 , have increased by 25% (US Energy Information Administration, 2018).

Trees and forests reduce atmospheric carbon dioxide (CO_2) in two ways:

- Directly, by reducing CO_2 in the atmosphere through growth and sequestration of CO_2 in woody and foliar biomass.
- Indirectly, by lowering the demand for energy and reducing CO_2 emissions from the consumption of natural gas and the generation of electric power.

STORMWATER MANAGEMENT AND WATER QUALITY

Trees and forests improve and protect the quality of surface waters, such as creeks and rivers, by reducing the impacts of stormwater runoff through:

- Interception
- Increased soil capacity and infiltration rate
- Reduction in soil erosion

Trees intercept rainfall in their canopy, which acts as a mini-reservoir. During storm events, this interception reduces and slows runoff. In addition to catching stormwater, canopy interception lessens the impact of raindrops on barren soils. Root growth and decomposition increase the capacity and rate of soil infiltration by rainfall and snowmelt (Xiao et al. 1998). Each of these processes reduces the flow and volume of stormwater runoff, avoiding erosion and preventing sediments and other pollutants from entering streams, rivers, and lakes. Urban stormwater runoff is a major source of pollution for surface waters and riparian areas, threatening aquatic and other wildlife as well as human populations. Requirements for stormwater management are becoming more stringent and costly. Reducing runoff and incorporating urban trees in stormwater management planning have the added benefit of reducing the cost of stormwater management, including the expense of constructing new facilities necessary to detain and control stormwater as well as the cost of treatment to remove sediment and other pollutants (McKeand and Vaughn, 2013).



ENERGY SAVINGS

Urban trees and forests modify climate and conserve energy in three principal ways:

- Producing shade for dwellings and hardscapes reduces the energy needed to cool the building with air conditioning (Akbari et al. 1997).
- Tree canopies engage in evapotranspiration, which leads to the release of water vapor from tree canopies and cools the air (Lyle, 1996).
- Trees in dense arrangements may reduce mean wind speed and solar radiation below the top of the tree canopy by up to ~90% compared to open areas (Heisler and DeWalle, 1988).

A **heat island** is an urban area or metropolitan area that is significantly warmer than its surrounding rural areas due to human activities.

Trees reduce energy use in summer by cooling the surrounding areas. Shade from trees reduces the amount of radiant energy absorbed and stored by hardscapes and other impervious surfaces, thereby reducing the **heat island effect**, a term that describes the increase in urban temperatures in relation to surrounding locations. Transpiration releases water vapor from tree canopies, which cools the surrounding area. Evapotranspiration, alone or in combination with shading, can help reduce peak summer temperatures (Huang et al. 1990). The energy saving potential of trees and other landscape vegetation can mitigate urban heat islands directly by shading heat-absorbing surfaces, and indirectly through evapotranspiration cooling (McPherson, 1994). Individual trees through transpiration have a cooling effect equivalent to two average household central air-conditioning units per day or 70kWh for every 200L of water transpired (Ellison et al. 2017). Studies on the heat island effect show that temperature differences of more than 9°F (5°C) have been observed between city centers without adequate canopy cover and more vegetated suburban areas (Akbari et al. 1997).

Trees also reduce energy use in winter by mitigating heat loss, where they can reduce wind speeds by up to 50% and influence the movement of warm air and pollutants along streets and out of urban canyons. **Urban canyons** are streets flanked by dense blocks of buildings, affecting local conditions, such as temperature, wind, and air quality. By reducing air movement into buildings and against conductive surfaces (e.g., glass and metal siding), trees reduce conductive heat loss from buildings, translating into potential annual heating savings of 25% (Heisler, 1986).

Three trees properly placed around the home can save \$100–\$250 annually in energy costs. Shade from trees significantly mitigates the urban heat island effect—tree canopies provide surface temperature reductions on wall and roof surfaces of buildings ranging from 20–45°F and temperatures inside parked cars can be reduced by 45°F. Reducing energy use has the added bonus of reducing carbon dioxide (CO₂) emissions from fossil fuel power plants.

HEALTH BENEFITS

Exposure to nature, including trees, has a positive impact on human health and wellness through improvements in mental and physical health, reductions in crime, and academic success (University of Washington, 2018; University of Illinois, 2018).



A study of individuals living in 28 identical high-rise apartment units found residents who live near green spaces had a stronger sense of community and improved mental health, coped better with stress and hardship, and managed problems more effectively than those living away from green space (Kuo and Sullivan, 2001). In a greener environment, people report fewer health complaints (including improved mental health) and more often rate themselves as being in good health (Sherer, 2003). Other research has revealed lower incidence of depressive symptoms in neighborhoods with greater access to green space (Jennings and Gaither, 2015).

Trees shade impervious surfaces and prevent the sun's rays from hitting them, thus reducing heat storage and later release, which contribute to the urban heat island effect. Tall trees that create a large shaded area are more useful than short vegetation. Trees also contribute to cooler temperatures through transpiration, increasing latent heat storage (the sun's energy converts water from its liquid to vapor form) rather than increasing air temperature (sensible heat). According to a study conducted by the Nature Conservancy, it is estimated that trees have the potential to reduce summer maximum air temperatures by 0.9–3.6° F. Trees help to address public health concerns for both heat and air quality. Globally, an annual investment of \$100 million in planting and maintenance costs would give an additional 77 million people a 1° C (1.8° F) reduction in maximum temperatures on hot days (McDonald et al. 2016).

Several studies have examined the relationship between urban forests and crime rates. Park-like surroundings increase neighborhood safety by relieving mental fatigue and feelings of violence and aggression that can occur as an outcome of fatigue (Planning the Urban Forest: Ecology, Economy, and Community Development, 2009). Research shows that the greener a building's surroundings are, the fewer total crimes. This is true for both property crimes and violent crimes. Landscape vegetation around buildings can mitigate irritability, inattentiveness, and decreased control over impulses, all of which are well-established psychological precursors to violence.

Residents who live near outdoor greenery tend to be more familiar with nearby neighbors, socialize more with them, and express greater feelings of community and safety than residents lacking nearby green spaces (Planning the Urban Forest: Ecology, Economy, and Community Development, 2003). Public housing residents reported 25% fewer domestic crimes when landscapes and trees were planted near their homes (Kuo, 2001). Two studies (one in New Haven, CT and the other in Baltimore City and County, MD) found a correlation between increased tree coverage and decreased crime rates, even after adjusting for a number of other variables, such as median household income, level of education, and rented versus owner-occupied housing in the neighborhoods that were studied (Gilstad-Hayden et al. 2015; Troy et al. 2012).

A 2010 study investigated the effects of exposure to green space at school on the academic success of students at 101 public high schools in southern Michigan (Matsuoka, 2010). The study found a positive correlation between exposure to nature and student success measured by standardized testing, graduation rate, percentage of students planning to go to college, and the rate of criminal behavior. This trend persisted after controlling for factors such as socioeconomic status, race, or ethnicity. Conversely, views of buildings and landscapes that lacked natural features were negatively associated with student performance.



WILDLIFE HABITAT

Trees provide important habitat for birds, insects (including bees), and other animal species. Their greatest contributions include:

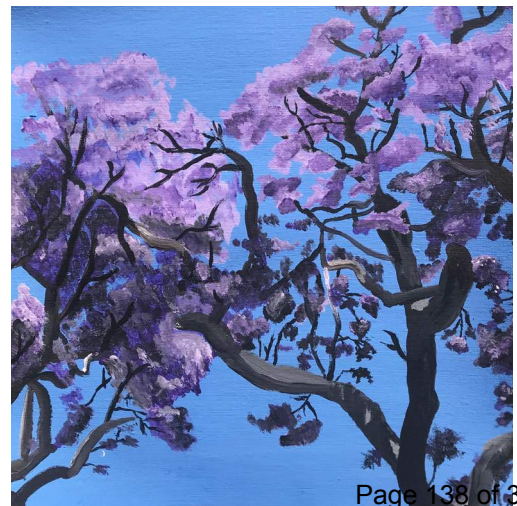
- Preservation and optimization of wildlife habitat
- Natural corridors for increased movement and dispersal

Furthermore, trees and forest lands provide critical habitat (for foraging, nesting, spawning, etc.) for mammals, birds, fish, and other aquatic species. Tree foliage, sap, flowers, and fruits can provide food sources that support wildlife. Urban forests contain an array of flowering trees which produce pollen and nectar food sources for pollinators. Trees also support a variety of invertebrate species that are fed upon by other wildlife. Increasing tree species diversity and richness contributes to greater numbers of bird species among urban bird communities (Pena et al. 2017). In addition to greater tree diversity, understory vegetation, the retention of large trees improves outcomes for both birds and bats by increasing opportunities to find adequate food and habitat (Threlfall et al. 2016).

Wooded streets potentially function as movement corridors, allowing certain species—particularly those feeding on the ground and breeding in trees or tree holes—to fare well by supporting an alternative habitat for feeding and nesting (Fernandez-Juricic, 2001). Restoration of urban riparian corridors and their linkages to surrounding natural areas has facilitated the movement of wildlife and dispersal of flora (Dwyer et al. 1992). Usually habitat creation and enhancement increase biodiversity and complement other beneficial functions of the urban forest. These findings indicate an urgent need for conservation and restoration measures to improve landscape connectivity, which will reduce extinction rates and help maintain ecosystem services (Haddad et al. 2015).

CALCULATING TREE BENEFITS

Communities can calculate the benefits of their urban forest by using a complete inventory or sample data in conjunction with the USDA Forest Service i-Tree software tools (itreertools.org). This open-source, state-of-the-art, peer-reviewed software suite considers regional environmental data and costs to quantify the ecosystem services unique to a given urban forest resource. Individuals can calculate the benefits of trees to their property by using the free web-based tool, *i-Tree Design* (www.itreertools.org/design).



"HI TREE,

THANKS FOR GROWING HERE BECAUSE
IF WE DON'T HAVE YOU WE WILL HAVE
FLOOD. I LOVE YOU TREES THANK
YOU. TREES BYE."

ZOE



Diana

• What do we have?

History of the Urban Forest

Shortly before being introduced in Garden Grove, eucalyptus trees were brought to San Francisco, California in 1853. Eucalyptus were quickly sought by other communities for their potential as a lumber crop and border for agricultural lands and during the 1860s, the first urban and plantation trees were planted in Garden Grove. The Hill Plantation was established, in what is present day Garden Grove, as an experiment with 308 *Sideroxylon* trees, resulting in 28,240 board feet of lumber (Sellers, 1910).

The population growth was extraordinary in the 1950s, when World War II servicemen and their families settled in Garden Grove after the war (City of Garden Grove, n.d.). During initial development, grey infrastructure (i.e., infrastructure constructed of concrete and metal) was established with little consideration for the future growth of street trees, which have contributed to conflicts between existing infrastructure and trees. The city's first tree ordinance was adopted in 1961. In the 1990s, the first community tree inventory was collected and a Memorial Tree Program was established. Garden Grove was recognized by the Arbor Day Foundation and received the *Tree City USA Growth Award* from 1998–2009 for their innovative programs and projects aimed to enhance the urban forest. Currently, Garden Grove meets all of the Tree City USA standards and could apply for recognition. The standards are met because the Trees Division is responsible for the care of community trees, the city follows a Tree Ordinance, the city spends more than \$2 per capita on the urban forest each year, and the city website has an Arbor Day proclamation.

When compared to other municipalities in Orange County, Garden Grove has one of the better funded urban forestry programs and is slightly less than average for the number of trees per 100 residents (17 trees per 100 residents, as compared to an average of 22 trees per 100 residents) (Orange County's Grand Jury, 2019).



The Valencia oranges are a remnant of some of the oldest planted trees in Garden Grove. **URBAN FOREST FACT**



Historic eucalyptus and original Valencia oranges can still be found along roadsides and in neighborhoods throughout the community. Other notable trees within the community include remnant coast live oaks at Village Green Park and the “Eureka” walnut at Stanley Ranch. Ongoing revitalization projects have the potential to increase tree canopy, notably the incorporation of trees along bike paths and other pedestrian corridors as well as transition zones and entrances to the city. In conjunction with the development of the UFMP, the planting of 363 trees will occur along the former Pacific Electric Railway easement.

Garden Grove’s Trees Division was established prior to the late 1970s. While the city does not have, and has not historically had, a City Arborist or Urban Forester, Trees Division staff are dedicated to the maintenance of community trees. Since 2018, the Trees Division has prioritized planting approximately 520 community trees each year. They also provide post-planting care such as watering, mulching, and tree supports.

The Stanley Ranch

Edward G. Ware settled on forty acres north of Garden Grove in 1876 and built the historic Stanley house in 1891. Ware farmed at the Stanley Ranch, which is located at the heart of Garden Grove (Amor, 1921) and grew many different crops and developed advanced horticultural skills. He is known as the first person to grow Valencia oranges in Garden Grove, but was also interested in Navel orange and walnut trees. His work on tree crops earned him recognition as the “best authority on walnuts in the state of California”. The original “Eureka” walnut still stands at the Stanley Ranch (SeeCalifornia, n.d.). This tree is of historical significance because attention from a prominent nurseryman was placed on its propagation. As a result, it became the seed source for all “Eureka” walnuts, “Prolific” nut, and “Earhart” disease-resistant walnuts planted throughout Southern California during this time (Amor, 1921). Today, the Garden Grove Historical Society manages the Stanley Ranch Museum and Historical Village (SeeCalifornia, n.d.).



The “Eureka” walnut leafing out at Stanley Ranch

Urban Forest Resource

An urban forest is defined as the collection of privately-owned and publicly-owned trees and woody shrubs that grow within an urban area. Garden Grove's urban forest resources include the overall tree canopy cover, which consists of both private and public-owned trees. The community urban forest is a subset of the urban forest comprised of the public-owned trees on streets, in City parks, and at City-owned facilities. A summary of the composition and value of these resources follows.

TREE CANOPY

Tree canopy is the layer of leaves, branches, and stems of trees and other woody plants that cover the ground when viewed from above. Understanding the location and extent of tree canopy is critical to developing and implementing sound management strategies that will promote the smart growth and resilience of Garden Grove's urban forest and the invaluable services it provides. A tree canopy assessment examines tree cover (public and private) from a bird's-eye-view and includes consideration of tree canopy along with other primary land cover, including impervious surface, low-lying vegetation, bare soils, and water. Garden Grove's Tree Canopy Assessment (2019) provides managers with information to better understand canopy cover in relation to other geospatial data, including:

- Distribution of tree canopy within the community
- Geopolitical patterns in canopy distribution

The analysis did not distinguish between trees on public and private property since the benefits of trees extend beyond property lines. The information can be used by urban forest managers to explore tree canopy in conjunction with other available metrics, including geography, land use, and community demographics. The data also establishes a baseline for assessing future change.

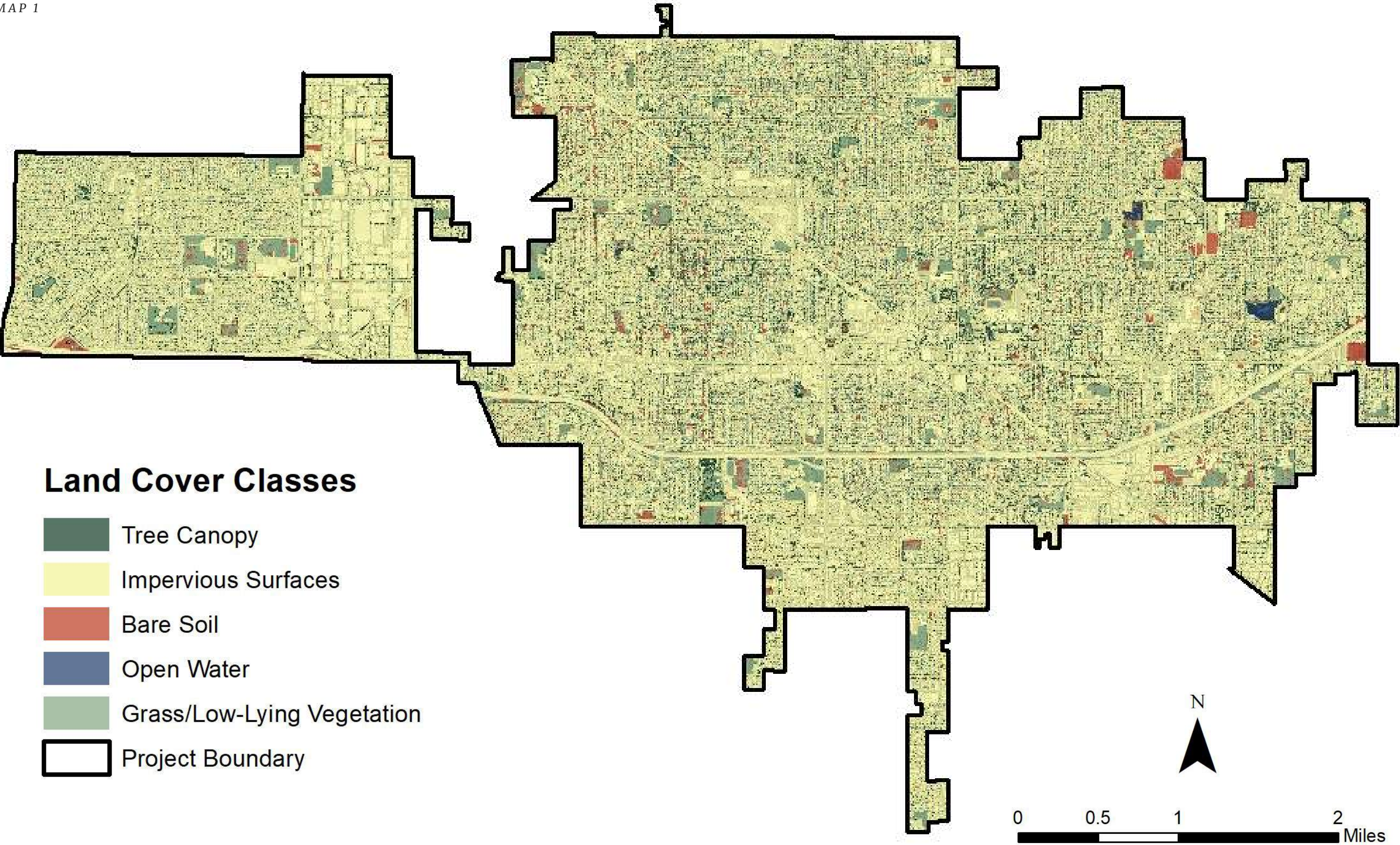
Land Cover Summary

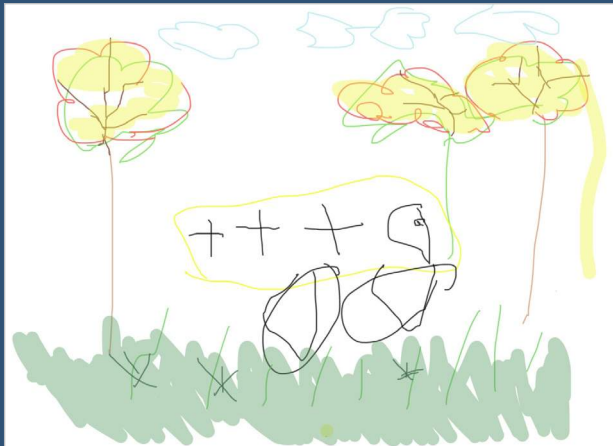
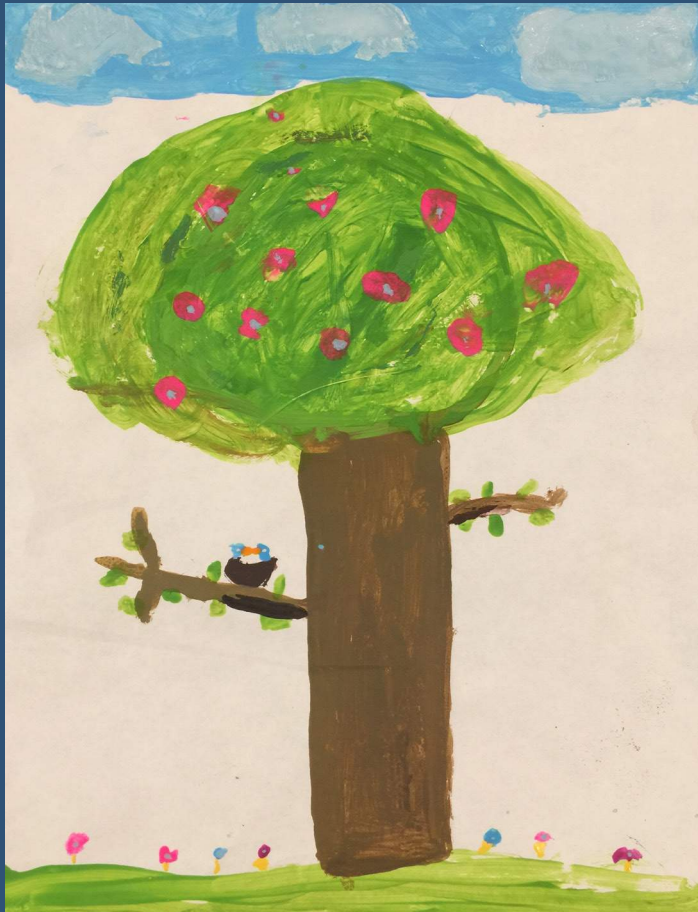
Tree Canopy by Land Use

Garden Grove encompasses 18 square miles (11,472 acres). Excluding impervious surface (8,337.9 acres) and open water (11.6 acres), Garden Grove contains approximately 3.5 square miles (2,215 acres) some of the land could provide potential planting opportunities. The following characterizes land cover in Garden Grove:

- 907 acres (7.9%) of tree canopy, including trees and shrubs
- 27 acres of tree canopy in parks, an average 16.9% canopy cover
- 36.5 acres of tree canopy in Garden Grove schools, with an average 4.8% canopy cover
- 8,337.9 acres (72.7%) of impervious surface, including roads and structures







“REVERSING DEFORESTATION IS COMPLICATED; PLANTING A TREE IS SIMPLE.”

MARTIN O'MALLEY

Tree Canopy by Parks

Garden Grove has 21 parks (160.2 acres) and the Tree Canopy Assessment identified over 27 acres of tree canopy and an average canopy cover of 16.9% in the parks. Parks could provide opportunities for adding additional large-stature shade trees to increase overall canopy cover and benefits for the community.



TABLE 1: Canopy Cover in Garden Groves's Top Ten Largest Parks

Park Name	Acres	Canopy Acres	Canopy %	Impervious Acres	Grass/ Low-lying Veg. Acres	Bare Soil Acres	Open Water Acres
Garden Grove Park	27.23	4.61	16.94	4.18	16.82	1.62	0.00
Haster Basin Recreation Area ²	22.61	3.52	15.57	5.25	5.35	0.25	8.24
Chapman Sports Complex	15.31	0.39	2.57	4.03	10.05	0.84	0.00
Hare School Park	12.38	0.90	7.30	1.26	8.54	1.66	0.00
Edgar Park	11.85	1.67	14.13	0.61	9.33	0.23	0.00
West Haven Park	10.00	0.54	5.44	1.47	6.01	1.99	0.00
Lake School Park	8.95	0.44	4.93	0.79	6.63	1.09	0.00
West Grove Park	6.99	1.42	20.24	0.59	4.96	0.01	0.00
Magnolia Memorial Park Cemetery	6.26	1.52	24.19	0.79	2.94	1.00	0.00
Village Green Park	5.45	0.77	14.10	0.70	3.94	0.05	0.00
All Other Parks	33.16	11.23	33.87	8.20	13.09	0.31	0.32
All Parks Total	160.20	27.02	16.87%	27.88	87.66	9.04	8.56

² Haster Basin is a County Park

Tree Canopy by Schools

The Tree Canopy Assessment found that Garden Grove's 56 schools encompass 764.3 acres and have an average canopy cover of 4.8%. As the average tree canopy in Garden Grove's schools is below the average canopy cover throughout the rest of the community, the city could explore ways to partner with schools to increase canopy cover. Students benefit when school properties have ample tree canopy cover. Access to green infrastructure has been shown to heighten student performance by increasing attention spans and reducing stress levels. Furthermore, tree canopy has been shown to increase activity levels and reduced the risk of physical and mental health illnesses (Li and Sullivan, 2016)

TABLE 2: Canopy Cover by Type of School in Garden Grove

School Type	Acres	Canopy Acres	Canopy %	Impervious Acres	Grass/ Low-lying Veg. Acres	Bare Soil Acres	Open Water Acres
Elementary	364.73	21.21	5.81	161.37	147.13	34.99	0.00
Intermediate	152.42	6.94	4.55	53.14	84.29	8.03	0.00
High	184.26	5.62	3.05	98.35	57.17	23.13	0.00
Special Education	9.64	0.27	2.77	2.87	5.16	1.34	0.00
Religious School	12.86	1.22	9.47	10.02	1.34	0.28	0.00
Adult Education	40.43	1.28	3.16	22.13	12.80	4.24	0.00
All Schools Total	764.34	36.53	4.80%	347.88	307.89	72.00	0.00

Tree Canopy by Zoning

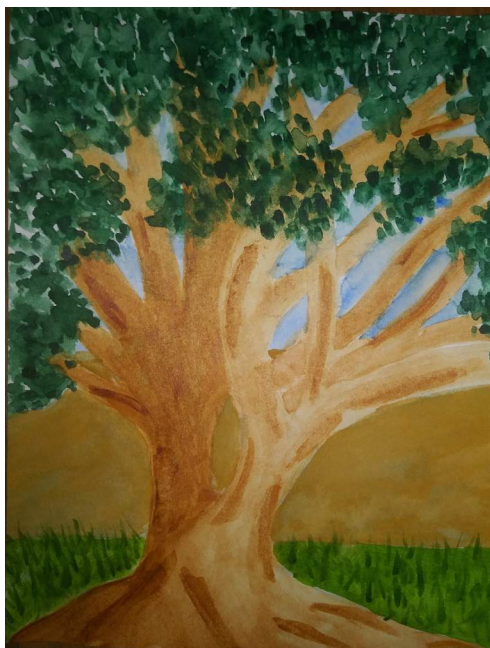
Zoning reflects the community's plan for growth in specific areas. Zoned areas encompass 8,905.4 acres and tree canopy varies from 1.8% (Heavy Commercial) to 13.7% (Civic Center) canopy cover. Examining tree canopy cover by land use zones can provide additional perspective on where to target new tree plantings.

TABLE 3: Canopy Cover by Zoning

Zone	Acres	Canopy Acres	Canopy %	Impervious Acres	Grass/ Low-lying Veg. Acres	Bare Soil Acres	Open Water Acres
Adaptive Reuse Zone	60.66	2.10	3.46	56.19	2.20	0.17	0.00
Brookhurst/Chapman Specific Plan	9.36	0.16	1.67	8.66	0.54	0.00	0.00
Civic Center	118.53	16.21	13.67	81.97	17.08	2.94	0.32
Community Center	106.51	12.30	11.55	77.73	15.19	1.29	0.00
Garden Grove Blvd Mixed Use	194.75	10.28	5.28	167.33	15.33	1.82	0.00
Harbor Corridor	74.25	5.00	6.74	63.71	4.09	1.46	0.00
Heavy Commercial Zone	25.54	0.46	1.79	22.86	0.70	1.53	0.00
Industrial Park Zone	154.05	5.35	3.47	142.27	3.64	2.78	0.00
Limited Industrial Zone	143.51	3.75	2.61	134.33	3.97	1.45	0.00
Limited Multiple Residential Zone	86.74	7.87	9.08	59.23	15.66	3.98	0.00
Multiple-Family Residential	809.17	65.31	8.07	638.42	95.44	10.01	0.00
Neighborhood Commercial	266.09	11.50	4.32	242.74	9.82	2.03	0.00
Neighborhood Mixed Use Zone	128.76	6.74	5.24	115.25	6.49	0.28	0.00
Office Professional Zone	30.71	2.28	3.46	24.86	3.03	0.54	0.00
Open Space Zone	1,008.78	64.46	6.39	473.82	378.17	81.02	11.31
Planned Unit Development	1,095.39	89.44	8.17	899.25	76.18	30.52	0.00
Railroad Zone	11.74	0.70	6.00	10.97	0.07	0.00	0.00
Single-Family Residential Zone	4,567.55	439.88	9.63	2,928.81	997.39	201.47	0.00
Transportation Corridor Zone	13.29	0.48	3.58	10.82	0.63	1.36	0.00
All Zones Total	8,905.39	744.27	8.36%	6,159.22	1,645.62	344.65	11.63

"TREES WERE HERE
BEFORE HUMANS.
THEY ARE WORTH
EVERY PENNY
IMAGINABLE."

GARDEN GROVE
COMMUNITY MEMBER



COMMUNITY TREE RESOURCE

Community trees (publicly managed trees along streets, in parks, and at city-owned facilities) play a vital role in Garden Grove. They provide numerous tangible and intangible benefits to residents, visitors, and neighboring communities.

Structure

A structural analysis is the first step toward understanding the benefits provided by community trees, as well as their management needs. In 2019, Garden Grove's community tree resource currently includes 17,210 trees and 234 unique species or varieties along streets and in parks³. The following information characterizes Garden Grove's community tree resource:

- *Lagerstroemia indica* (common crapemyrtle, 13.6%) is the most common species, followed by *Lophostemon confertus* (vinegartree, 9.2%), and *Cupaniopsis anacardioides* (carrotwood, 8.2%).
- 14.1% of the population are less than 6 inches in diameter (DBH), 67.0% are between 6 and 18 inches in diameter, and 18.8% are larger than 18 inches in diameter.
- 92.2% of community trees are in fair condition.
- Community trees provide an estimated 139.2 acres of tree canopy cover, 1.5% of total land area.
- Replacement of the 17,210 community trees with trees of equivalent size, species, and condition, would cost more than \$62.7 million.

Urban forest managers can identify species in the community tree inventory that have performed well based on their relative performance and age distribution.

Species Diversity

Maintaining species diversity in a community tree resource is essential. If a single species or genus dominates the composition of the tree resource, there can be detrimental consequences in the event of storms, drought, disease, pests, or other stressors. Catastrophic pathogens, such as Dutch elm disease (*Ophiostoma ulmi*), Emerald ash borer (*Agrilus planipennis*), Asian longhorned beetle (*Anoplophora glabripennis*), and sudden oak death (*Phytophthora ramorum*) are some examples of unexpected, devastating, and costly pests and pathogens that highlight the importance of diversity and the balanced distribution of species and genera. In addition to these pests there is growing concern for polyphagous shot hole borer (PSHB) (*Euwallacea* sp.), a new pest that has devastated urban forests in Southern California due to its wide host range, including *Persea americana* (avocado) and *Acer negundo* (boxelder) (Eskalen, 2015).

In light of significant pests and diseases, many cities are opting to increase diversity to improve resilience. The widely used 10-20-30 rule of thumb states that an urban tree population should consist of no more than 10% of any one species, 20% of any one genus, and 30% of any one family (Clark et al. 1997; Santamour, 1990). While this rule does ensure a minimum level of diversity, it may not encourage enough genetic diversity to adequately support resilience. Therefore the 10-20-30 rule should be considered a minimum goal.

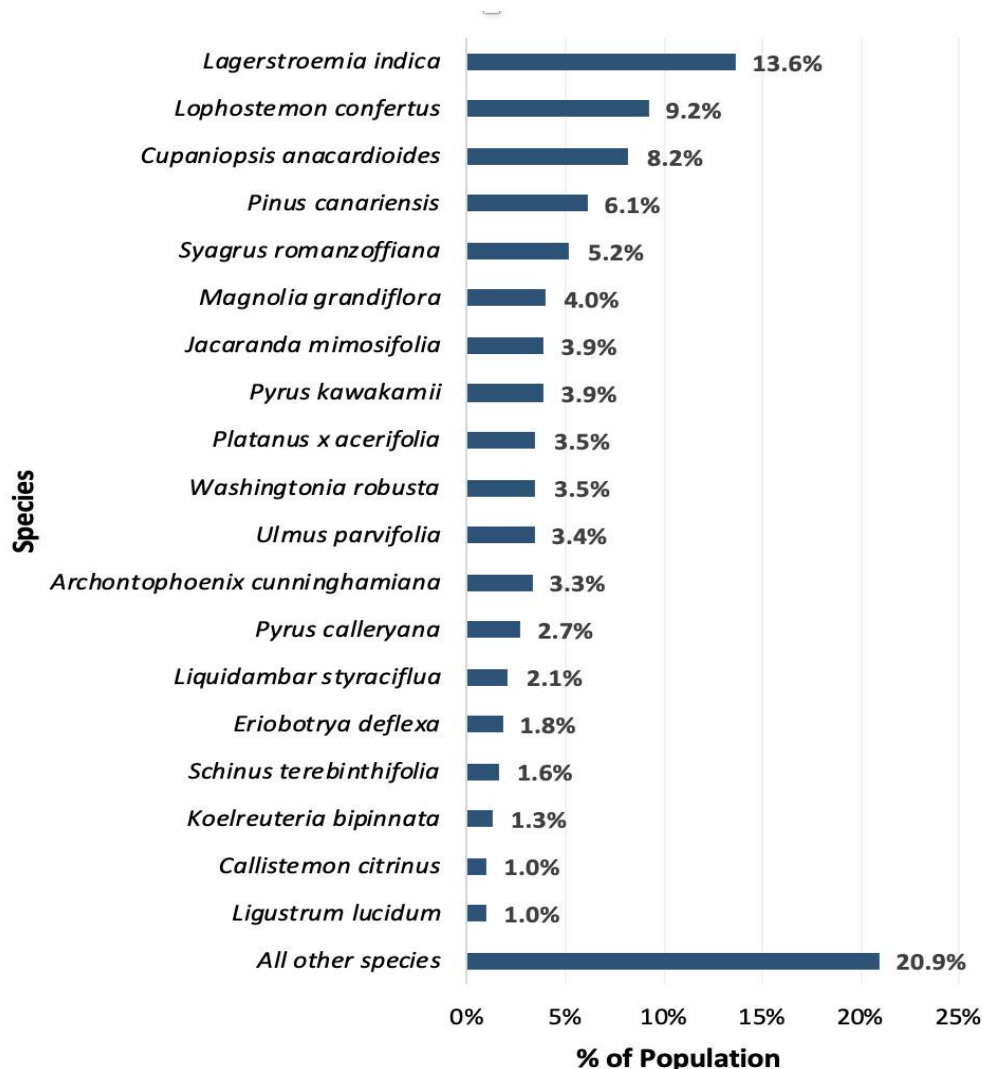
³ Garden Grove Urban Forest Resource Analysis (2020)



Managers should always strive to increase the range of representation among species and genera within an urban forest. Among Garden Grove's community tree population, *Lagerstroemia indica* (common crapemyrtle) exceeds this well accepted rule and none of the genera exceed the 20% rule.

The most prevalent species in Garden Grove is *Lagerstroemia indica* (common crapemyrtle, 13.6%), followed by *Lophostemon confertus* (vinegartree, 9.2%), and *Cupaniopsis anacardioides* (carrotwood, 8.2%) (Figure 1). All together, these three species represent 31.0% of the overall population.

FIGURE 1: MOST PREVALENT SPECIES IN GARDEN GROVE



Future tree planting should focus on increasing diversity and reducing reliance on overused species. As over-predominant species are removed and replaced, new species should be introduced when possible. New species should be resistant to the known pest issues that currently pose a threat to the region. In addition, consideration should be given to species that withstand higher temperatures and periods of drought.



Age Distribution

The distribution of individual tree ages within a tree population influences present and future costs as well as the flow of benefits. The age distribution of Garden Grove's community tree resource (excluding palms) reveals an established and mature population with 2,942 trees, nearly 18.8%, greater than 18-inches in diameter. Managers can gain a better understanding of the specific risks that individual mature trees pose with regular inspection and risk assessment.

Trees greater than 24 inches diameter require more regular inspections and routine maintenance as they mature. When trees reach mature stature, they provide the greatest benefits. However, mature trees should be regularly assessed for health and risk factors as they approach or reach the end of their natural lifespan. They may have higher maintenance needs or require removal to reduce risk and liability. Garden Grove has 1,225 mature trees (7.8%) that require more regular inspections.

Trees between 6 and 18 inches in diameter indicate that there are young, large and medium-stature tree species. This age group is a positive indicator for future benefits from the urban forest, since large shade trees typically provide more shade, pollutant uptake, carbon sequestration, and rainfall interception than small trees. In Garden Grove, this is also a reflection of the mature, small-statured species represented in the inventory. The 10,468 trees are 6–18 inches in diameter and represent nearly 67% of the population in Garden Grove and require routine, structural pruning.

Trees below 6 inches in diameter indicate young trees and new tree plantings. Training, defined as the selective pruning of small branches to influence the future shape and structure of a young tree, is critical at this stage to prevent costly structural issues and branch failures as these young trees mature into their final size in the landscape. In Garden Grove, 2,209 trees are below 6 inches and represent 14.1% of the population.

Canopy from Public Trees

Garden Grove covers an area of 14.7 square miles (9,408). *i-Tree Eco* estimates that community trees provide 0.2 square miles (139.2 acres) of canopy cover, or 1.5% of the total land area.

Benefit Versus Investment

The benefits provided by the urban forest are dependent upon the species, age (size), and condition of the tree population. The urban forest is the one component of urban infrastructure that has the potential to increase in value over time and with proper care. As tree canopy cover increases, so do the benefits afforded by leaf area. To date, community trees have stored 6,235 tons of carbon (CO₂) in woody and foliar biomass valued at nearly \$1.1 million.

Annually, Garden Grove's 17,210 community trees provide cumulative environmental benefits at an average value of \$7.31 per tree, for a total value of \$125,795. These annual environmental benefits include:

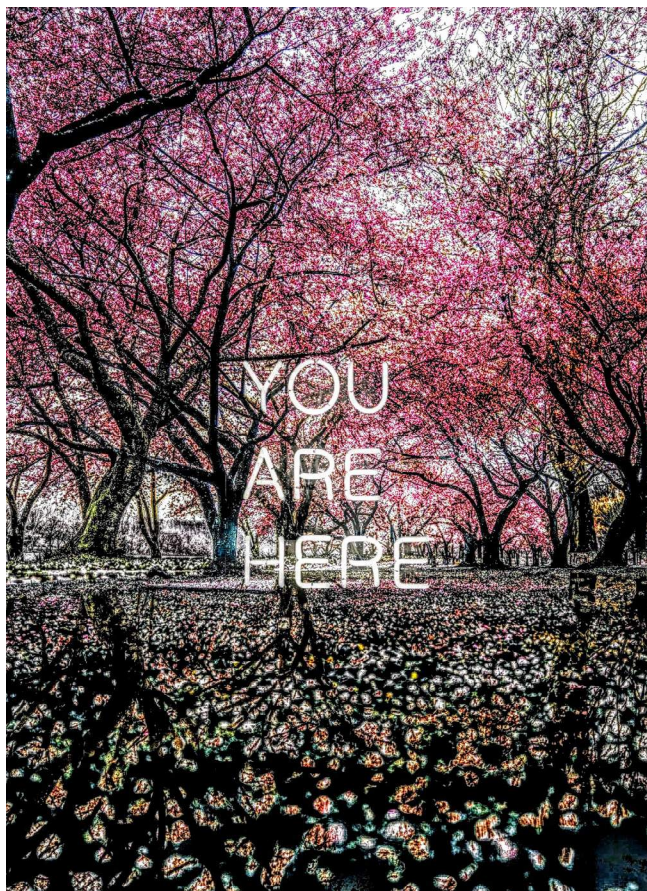
- \$5,987 in intercepted stormwater (670,038 gallons), an average benefit of \$0.35 per tree



- \$74,381 in air quality improvements (10,086 pounds of particulates removed), an average of \$4.32 per tree
- \$45,426 in sequestered atmospheric carbon (266 tons), an average of \$2.64 per tree

A limitation of the annual benefits summary is that it does not fully account for all benefits provided by the community tree resource. Some benefits could not be included in the analysis such as, reductions in energy use (electricity and natural gas) through shading and climate effects. Furthermore, some benefits are intangible and/or difficult to quantify such as, increases in property values and impacts on psychological and physical health, crime, and violence. Empirical evidence of these benefits does exist (Wolf, 2007; Kaplan and Kaplan, 1989; Ulrich, 1986), but there is limited knowledge about the physical processes at work and the complex nature of interactions make quantification imprecise. Tree growth and mortality rates are highly variable. A true and full accounting of benefits and investments must consider variability among sites (e.g., tree species, growing conditions, maintenance practices) throughout the city, as well as variability in tree growth. In other words, trees are worth far more than what one can ever quantify!

Considering the estimated annual budget, currently just over \$1.1 million is invested in the community tree resource, the annual net benefit (benefits minus investment) to the community is -\$1 million. In other words, for every \$1 invested in community trees, the community receives \$0.11 in benefits. It is important to note that this value is an underestimation of the benefits provided by the community tree resource as many benefits were unable to be included in this report. Benefits provided by electricity and natural gas reductions through shading and climate effects were not calculated. Other benefits, such as the role community trees play in increasing property values, contributing to aesthetic and socioeconomic benefits, and helping Garden Grove meet State emission reductions are not quantifiable.



“TO BE ABLE TO WALK UNDER
THE BRANCHES OF A TREE THAT
YOU HAVE PLANTED IS REALLY
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WITH YOUR GARDEN.”

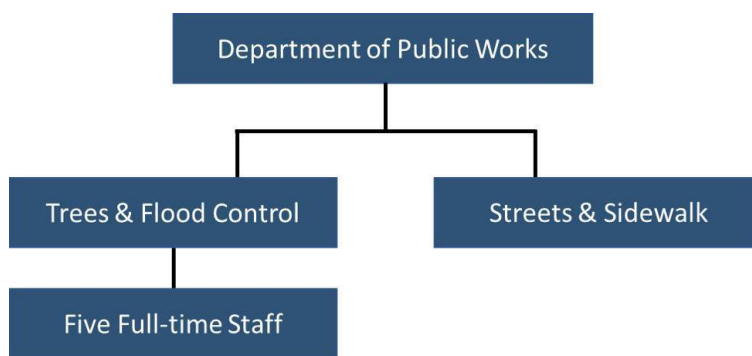
MIRABEL OSLER



Trees Division Operations

Under the Department of Public Works, the Trees and Streets Division is responsible for the management of all trees within the public rights-of-way, parks, and public places, along with the maintenance of catch basins. The Section's primary responsibility is the maintenance of 17,210 community trees. Approximately 10% to 25% of staff time is devoted to cleaning and inspecting catch basins, removing weeds, and repairing fences. While the focus of responsibilities can vary, depending upon seasonal changes and rainfall (localized flooding is not uncommon), the Trees and Streets Division performs the following services:

- Maintaining community trees, including clearance and visibility pruning.
- Responding to service requests to address hanging branches and other public safety concerns.
- Removal of trees and stumps.
- Tree planting.
- Maintaining the community tree inventory data.
- Tree inspection and risk identification.
- Design review.
- Contract monitoring (grid pruning and large tree removal).
- Emergency response.
- Flood control.



Currently, the Trees and Streets Division employs five full-time staff members, one of which is acting foreman. Ideally, the Trees Division would have two tree crews using two aerial lifts, two brush trucks and one flatbed that will move between the crews. Because the section is short-staffed, occasionally maintenance activities are conducted on weekends to address open service requests, budget permitting. To assist in the staff shortages, part-time, Public Works Trainees (staff members limited to 1,500 hours per year) are used to supplement the labor. However, trainees are restricted to three days of work and are often unexperienced in tree maintenance. In addition, part-time staff do not possess commercial driver's licenses (CDLs), therefore cannot drive aerial lift trucks or brush trucks. While part-time staff are trained on the proper handling and operation of equipment and are provided the opportunity to acquire their CDLs through the city, these employees often transition to other positions within the city or seek employment elsewhere. Decreases in staffing levels began in the 1990s and subsequent budget cuts have resulted in numerous full-time positions going unfilled.

Although currently none of the Trees Division staff are certified arborists or hold other professional tree care licenses, all staff participate in safety trainings conducted by a licensed safety consultant whom holds classes throughout the year. Manufacturer representatives provide training on the safe operation and proper use of all equipment.



To further instill a culture of safety, all staff participate in weekly “tailgates” and records of participation are kept for each staff member. All equipment, including heavy-duty vehicles, chippers, and climbing gear are inspected daily.

TREE MAINTENANCE

Approximately 85% of the tree trimming is performed through contracts, which maintain 5,100 community trees annually through grid pruning on a 3 to 4-year cycle (some palms and elms are on a 2-year cycle). They also provide pruning for clearance, enhanced structure, or to remove dead/diseased areas following American National Standards Institute (ANSI) A300 tree care operation standards as well as Municipal Code specifications. Grid pruning is based on district cycles, which allows for predictable scheduled maintenance. Due to recent increases in the number of tree removals, grids in recent years have been partially completed and not on a predictable schedule. Consequentially, the increased demand for removals has resulted in budget constraints, reducing the capacity for tree trimming and other maintenance operations (approximately \$10,000 per month is currently being spent on removals).

Contractors are also used to prune around utility lines, remove large trees, and remove trees in areas that are difficult to access or require the use of cranes. In addition, approximately 95% of stump grinds are contracted. Wood debris disposal costs are included in contracted pruning and removals. Wood debris generated by in-house crews are temporarily stored in a green waste pile at the Public Works Corporate Yard. Later, they are transferred to the city waste management center and composted.

Clearance and Visibility

The Public Works Department receives complaints about tree clearance issues on private property on a regular basis. In these instances, the Trees Division follows the standard of clearance that is required by the Municipal Code. First, staff determine the actions needed to eliminate the obstruction, then use written notification(s) to alert the private property owner. If the clearance issue is not resolved upon re-inspection, city staff resolve the issue at the owner’s expense. Any trees that conflict with overhead utilities are addressed by Edison, the local energy company.

Service Requests

Community members can request maintenance by phone or online, and then requests are funneled to the corresponding Department. Each year, the Trees and Streets Division addresses approximately 1,200 service requests from community members. Typically, the Trees Division performs a visual inspection and contacts the community member to discuss possible solutions within 2–5 days. Most requests are for tree maintenance, storm damage mitigation, inquiries about the Adopt-a-Tree and Memorial Tree programs, as well as root pruning.

Contract Monitoring

The Trees Division follows Standard Operating Procedures for Public Works staff, *Trimming of City Trees and Specifications for Street Tree Maintenance* to maintain consistency in city-performed or contracted tree removals, stump removals, replacements, and trimming. These standards are used to evaluate the needs of individual trees for maintenance. Contracted operations are monitored by the Trees Division to ensure compliance. Some residents request



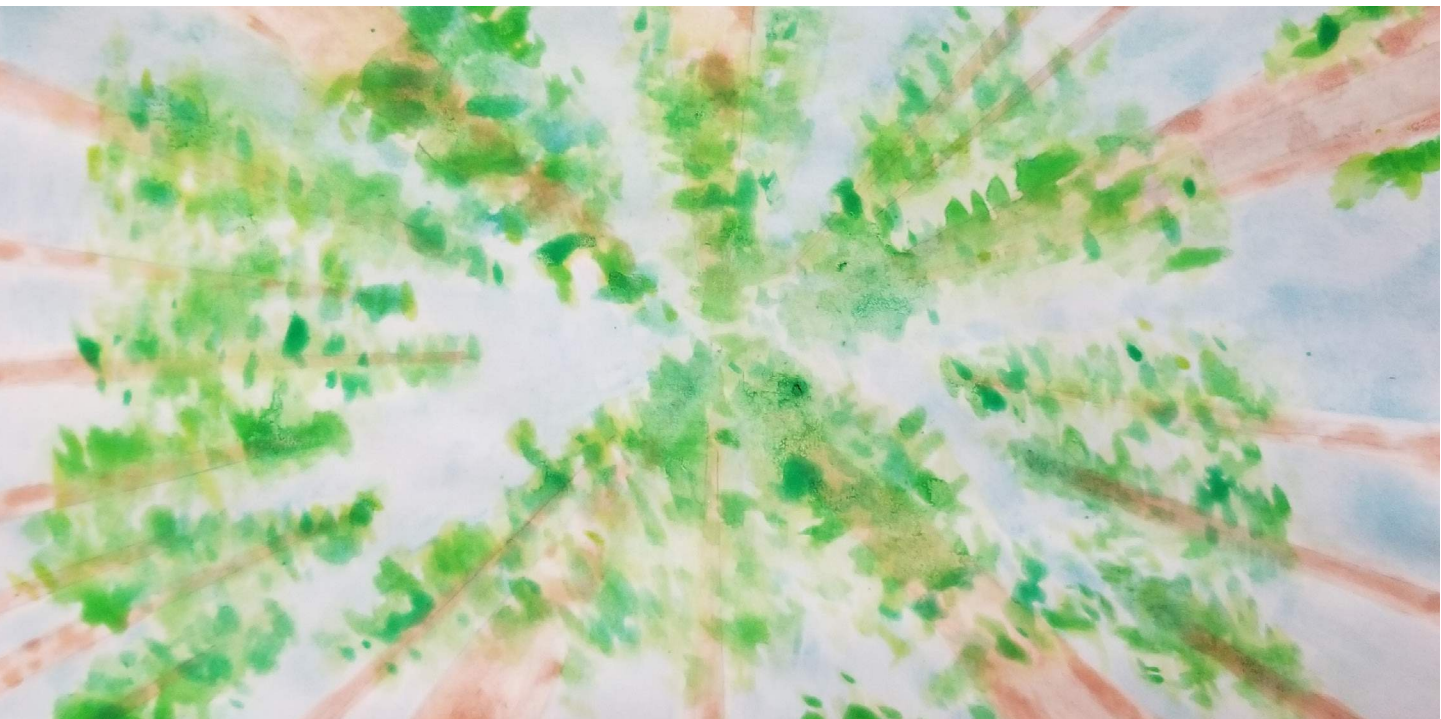
annual pruning of their city trees, which is not always conducive to tree health. Therefore, each tree is inspected and evaluated based on the *Specifications for Street Tree Maintenance*. Funding and public safety are also considered prior to conducting any maintenance activities. The American National Standards Institute (ANSI) provides industry standards (A300 Series) for tree care operations and the International Society of Arboriculture (ISA) publishes Best Management Practices for tree care activities.

Tree Inspection

Tree inspections occur as part of the procedure for evaluating service requests. In addition, city staff are encouraged to report any concerns observed while conducting other maintenance tasks and the Trees Division Manager conducts follow up visual inspections on such reports as needed. While the Trees Division maintains good communication with Risk Management to investigate tree-related claims against the city, currently there is no formal policy for tree inspection. A formalized policy can better ensure that all trees receive regular inspection, proactively identify concerns, and help to minimize risk and manage liability. Ideally, inspection would occur in conjunction with pruning cycles.

Maintaining Tree Inventory Data

The city uses an internal computerized inventory system to keep track of community trees, their location, species, historic maintenance, and trimming schedule. Vacant sites are also included in the inventory. Currently, the 2002 inventory is updated when maintenance occurs, but removals are not included as part of updates. Relying on a user-friendly tree inventory software and updating the inventory to include tree removals would help managers better understand the resource and determine a planting plan. If urban forest managers are looking for a more accurate benefit versus investment analysis, information on the tree aspect and distance from buildings should be included in the inventory and used to estimate the energy savings provided by community trees.



TREE REMOVAL

Garden Grove has an aging urban forest. Often, trees are not being replaced as quickly as they are removed. Preserving a healthy community tree is ideal, yet there are situations where a tree should be removed. Valid reasons for tree removal may include, but are not limited to:

- Concern for public safety
- Poor health, including disease and/or decay
- Structural issues that cannot be corrected
- Inappropriate species

All trees are inspected by staff and evaluated for removal on a case by case basis. Where a resident has requested a tree removal, staff is responsible for determining the merit of such a request.

Currently, the *Council Policy for Tree Removal* applies to situations where community trees are deemed undesirable and the existing criteria for removal is not met. In these cases, citizens have the right to initiate a petition process. Under this policy, tree removal(s) are permitted when the required number (%) of adjacent property owners sign the petition (as determined by the number of trees subject to removal). If a petition is approved, the removal and replacement is contracted by the city and the costs are incurred by the property owner. It is not uncommon for trees to be removed illegally, without request or permission.

Trees and Streets Division staff are responsible for the removal of most trees, including stump grinding. Where trees are very large and/or complicated, tree removal is performed by a contractor.

TREE PLANTING

Between 2005 and 2017, the city planted approximately 40 to 50 trees annually, largely in response to the Adopt-a-Tree program. While the 2005-2010 Strategic Plan called for a robust tree planting plan, funding was limited due to the 2008 recession. Street and sidewalk standards pose additional challenges for tree planting. Space is often limited by the narrow width of existing park strips (many <3 feet). In some cases, tree wells are required and sidewalks must allow adequate clearance under the American Disabilities Act (ADA) standards. Tree grates can help to increase clearance, but they are expensive and require ongoing maintenance. Since 2018, under new leadership in the Trees and Streets Division, tree planting has increased significantly. Currently, the Trees Division plants around 520 trees each year. For each new tree, the city ensures there is adequate funding for ongoing maintenance and requires an agreement with the adjacent property owner to provide ongoing irrigation.

All newly planted trees are staked for the first two years, primarily to protect against vandalism or damage, and irrigated for the first year to facilitate establishment. Mulch is used to retain moisture and mortality rates are generally low (<5%). Young trees are pruned annually for the first 3 years to promote good structure.



The current street tree planting list includes 11 species and references the California Polytechnic State University Tree Selection Guide, a resource that provides information related to tree suitability for numerous species (California Polytechnic State University, n.d.). Garden Grove's climate is conducive for a broad range of tree species and managers are consistently adding to the list to increase diversity and resiliency in the urban forest.

Right Tree Right Place

The practice of installing the optimal species for a particular planting site is known as the **Right Tree Right Place**. This philosophy considers the effects of trees as they grow on existing and planned utilities, existing landscape, and other infrastructure. Factors to consider include, planter size, soil characteristics, water needs, as well as the intended role and characteristics of the species. By considering the long-term consequences of planting a particular tree in a particular place, conflicts and premature removal of trees can be avoided.

Proper consideration for species selection and planting location has not always been provided. Some species were planted heavily at different periods in the history of Garden Grove's urban forestry program. A few of these species are costly to maintain, some are poorly suited to the local climate, and others drop unwanted debris. Furthermore, the Garden Grove weed and abatement ordinance charges the property owner with cleanup of the right-of-way. As a result, some members of the public have developed a negative perception of trees.

Pyrus kawakamii (evergreen pear), and *Cupaniopsis anacardioides* (carrotwood) are examples of high maintenance trees that were planted historically and are quite abundant. These species are prone to heaving sidewalks, and dropping nuisance fruit, which create a tripping hazard for pedestrians. Palm tree fronds can also create considerable debris. In addition to conflicts with hardscape, poor branch structure is typical for evergreen pear, making them more susceptible to branch failure in wind events. With prolonged periods of drought, pests and storm events have exacerbated the maintenance needs for these species.

Many streets have overhead utilities in the right-of-way. Due to federal and state regulations, utilities must maintain clearance around high-voltage power lines. As a result, medium and large-stature trees that were planted below power lines are often heavily pruned and poorly structured. In many cases, these trees are eventually removed. Current policies focus on planting small stature trees that are more utility friendly.

Unsuitable planting locations have resulted in conflicts with overhead utilities and heaving sidewalks. The purple orchid tree also sometimes called *Bauhinia variegata* (mountain ebony) and *Ulmus parvifolia* (Chinese elm) are examples of species planted in spaces too small when considering their mature stature. In some cases, this has resulted in the premature removal of trees. In other cases, canopy growth has been prohibited, or the lack of adequate space has resulted in extensive root and/or basal suckering that requires extra maintenance (e.g., Chinese elm).

When streets are narrow or parcel space is limited, trees often compete with hardscape and the demand for parking space. Furthermore, many homes in Garden Grove house extended families and the need for additional parking can significantly reduce space for trees. Municipal Code (Title 9 Land Use) specifies that maximum lot coverage by impervious surfaces shall not exceed 50% of the gross land area. Enforcement for this requirement is dependent upon a resident complaint, Code Enforcement proactive city-wide canvassing



of neighborhoods, and proposed improvements reviewed by the city. Additionally, many planting sites for street trees have been paved over. To increase opportunities for street trees, tree wells may be reclaimed through the removal of concrete where appropriate and where ADA compliance allows.

Going forward, the city is committed to planting tree species that are more appropriate for the region and in sites where trees are less likely to conflict with utilities and hardscape. Trees Division staff are actively seeking tree species that are well suited to the local climate to maximize additional benefits of choosing the right tree for the right place. To further maximize benefits from the urban forest, the city can provide guidance to homeowners and a suggested tree species list.

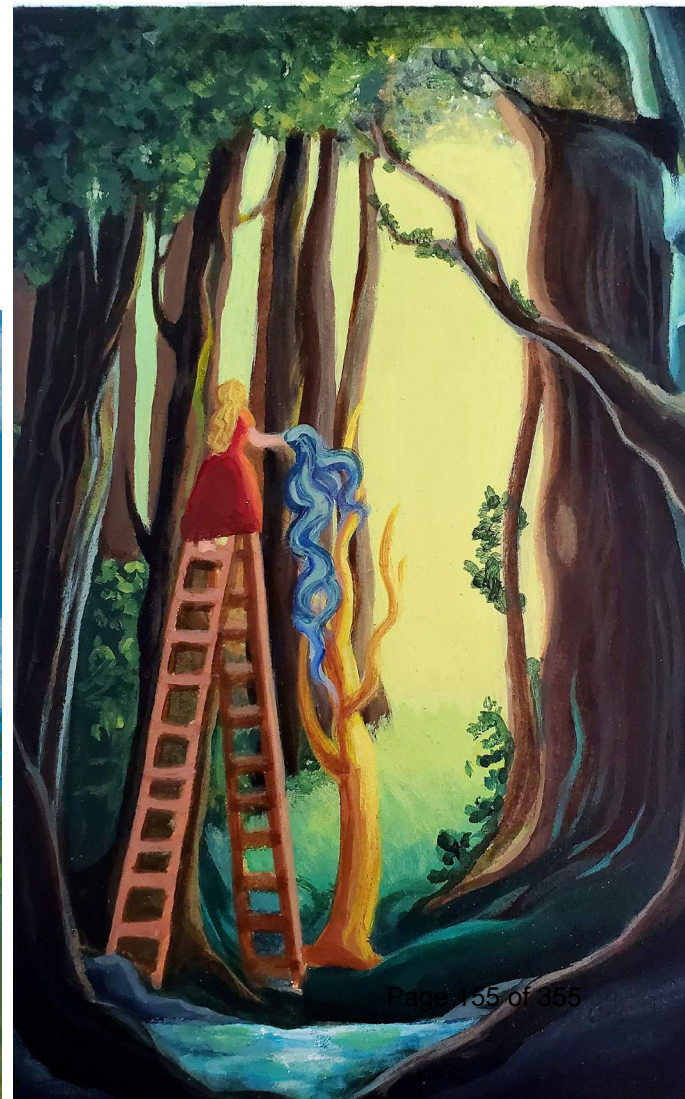
Adopt-a-Tree and Memorial Tree Programs

The Adopt-a-Tree program allows residents to adopt a parkway tree from the city in order to promote community beautification. Parkway trees are purchased by residents at a subsidized cost and planted by City staff.

Garden Grove's Memorial Tree program records date back to 1990 but may have been established before then. This long-lived program allows residents to plant a community tree in honor, or in memory of, loved ones. Community members request the location and type of tree and purchase the tree at a subsidized cost. The Memorial Tree is planted by city staff, and staff prioritize Memorial Tree replacements if removals occur. To date, there are 73 Memorial Trees. Combined, both programs have resulted in the planting of 300 trees.

**“HOW BEAUTIFUL IT IS LOOKING OUT AND SEEING
GREEN TREES VERSUS BUILDING STRUCTURES.”**

GARDEN GROVE COMMUNITY MEMBER



Trees and Sewer Lines

Residents with old, cracked sewer pipes often experience issues when tree roots exploit cracks in search of water. In some cases, this results in sewage back-ups into homes. The Garden Grove Trees Division coordinates with the Sanitation Division to ensure new tree plantings are not installed over sewer or water laterals. Typically, there are approximately 25 service requests about tree roots blocking sewer lines each year. The Trees Division requires images or video of the damage before allowing for the removal of a healthy city tree that has roots growing into sewage pipes. Tree root intrusion into the sewer lateral typically results in tree removal rather than root pruning, or using chemicals to clear the pipes, as these methods have had limited success in the past. When unprofessional root pruning occurs, trees are at risk of falling over.

Homeowners are responsible for replacing the sewer line and Public works will assess the tree removal priority and schedule the removal accordingly. Stronger protections need to be in place to prevent the removal of otherwise healthy trees. Furthermore, policies should be developed to prevent unprofessional root pruning. While the tree roots can exacerbate the problem, in all cases trees are taking advantage of already corrupted lines, which need to be replaced.

When looking at public infrastructure, conflicts arise regularly because the sewer mains are located 4 feet directly below street trees and tree wells. Policies should also be in place to address the movement of sewer mains into the street during large renovation projects.

ROOT PRUNING

When root space is limited, trees can heave sidewalks and conflict with other hardscape, creating a need for repairs. In some cases, trees that are in poor condition or that have continually caused conflicts are removed. When possible, the Trees Division coordinates with the Streets Division to root prune a tree prior to making repairs. The Trees Division does not have equipment for root pruning or trenching, and therefore contracts root pruning work. When root pruning is conducted, policy is to prune one side of the tree only, up to one time every three years. This process can destabilize a tree and create a hazard, especially if a large portion of the root zone is severed or if the pruning alters the tree's weight balance. Following industry standards and best management practices for root pruning can help to ensure a positive outcome.



IRRIGATION

In response to previous drought, watering in medians was suspended. Many trees suffered as a result. Drought restrictions have since been relaxed but remain an ongoing concern for California. Irrigation has not been restored to many trees in landscaped medians and rights-of-way and continues to be suspended in medians where streets are undergoing renovation. The city is working to reconstruct irrigation systems for median and street trees. These projects follow Municipal Code, which is in accordance with Model Water Efficient Landscape Ordinance (MWELO). Split systems that water trees separately from other vegetation (and turf) are preferred as irrigation can be minimized during drought conditions to focus on preserving trees. Trees are a long-term investment that provide valuable benefits to the community. Unlike turf and other vegetation, when trees are damaged or killed by drought, it can take 15 years or more to reestablish a new tree.

Parks are watered on a regular schedule, but despite consistent watering, existing irrigation does not always support tree health and has resulted in tree losses. Drought tolerant trees are not incorporated into parks due to a watering regime that is focused on turf. Tree species that are able to tolerate a higher watering frequency are typically chosen for park plantings. Moving forward more drought tolerant species could be incorporated by modifying irrigation to accommodate tree plantings and incorporating more natural/nontraditional park space. Trees Division and Parks staff are exploring the value of smart controllers for irrigation. Currently, residents are responsible for watering street trees adjacent to their property and must adhere to the city of Garden Grove's Water Conservation Ordinance (Chapter 14.40).

Redevelopment projects require water efficiency reporting, and in some cases trees or vegetated areas are being incorporated into stormwater management systems. Currently, the Trees Division is only involved in projects that go to public hearing and involve a relevant scope of work.



New Trees Need Water

Newly planted trees need to be watered more often than mature trees; two to four times per week in the summer depending on the soil type (sandy soils require more frequent watering than clay soils). Every time a newly planted tree is watered, it should receive 10-20 gallons of water depending on the size of the root ball. The Trees Division purchases “water bags” and uses their water truck to ensure proper watering of newly planted trees.

EMERGENCY RESPONSE

Garden Grove has a city-wide Emergency Operations Plan (Risk Management Professionals, 2009), which is administered through the city Manager and the Emergency On-Call team (EOC). Although there is currently no regular training on emergency response, there is a manual, which can be referred to by staff. The manual is generally only used during extreme emergencies, such as an earthquake. During a storm or other emergency response event, the Water Department handles all emergency calls. The Water Department evaluates emergency requests and dispatches standby staff from the Trees and Streets Division. Trees Division staff are responsible for clearing trees and debris in the rights-of-way and coordination with tree contractors as needed.



DESIGN REVIEW

Planning Services coordinates with the Trees Division to review development plans for projects in the city. The Trees Division provides recommendations for tree species and placement prior to approval. All development projects that require an entitlement or public hearing are sent to Public Works, Environmental, to receive design review.

FLOOD CONTROL

Localized flooding from the Santa Ana River and overflow stormwater drainage has occurred in Garden Grove (Orange County, n.d.). In addition to tree maintenance, approximately 10–25% (depending on the season and precipitation) of the Trees and Streets Division is dedicated to cleaning and inspecting catch basins, weed abatement, fencing repairs, stenciling, and homeless encampment clean-up.

Incorporation of trees into stormwater management plans can reduce the flow and volume of water entering these systems. With the reduced demand on these systems, the overall cost of stormwater management is also reduced. In some new developments or redevelopment projects currently underway in Garden Grove, there is greater opportunity to incorporate trees into stormwater management systems through expanded use of bioswales and larger setbacks in designs. In recognition of the benefits that trees can have on reducing the demand on stormwater management systems, the Trees and Streets Division has provided resources to Engineering to retrofit existing systems with additional trees.



COMMUNITY ENGAGEMENT AND OUTREACH

The city provides web-based resources to share information about tree care operations and the state of the urban forest. The site provides residents information on the city's Trees Division, resource links, and opportunities for engagement. Garden Grove bases their planting recommendations on California Polytechnic State University's website, which can be accessed through a link provided on the city of Garden Grove's website. A brief history of Community Forestry in Garden Grove is included, along with an overview of the Adopt-a-Tree program. The community is encouraged to engage in California's Arbor Day Commemoration and tree planting activities. In the future, the Trees Division anticipates coordinating with GGTV3 to broadcast information to the community about local tree planting activities. City staff have identified public outreach as a way to engage and educate the community about the urban forest, incorporating educational materials about the benefits of trees, tree care, and tree selection to the city website.



“TREES PROVIDE A SENSE A
PEACE AS WE BALANCE OUR
DAILY RUSH-RUSH LIVES
WITH THE SERENE BEAUTY
OF NATURE. ”

GARDEN GROVE COMMUNITY
MEMBER



PEST MANAGEMENT

Currently, pest management operations are not a substantial part of the Trees Division's activities. The contracting arborists provide a list detailing trees in the pruning cycle that are diseased, but this list is not considered in annual maintenance. Major arterials are regularly inspected and additional inspections occur during service calls. If other sporadic pests and pathogens are causing damage to established trees, treatments may be warranted. Insecticidal soaps are used if thrips infestations on *Laurus nobilis* (sweet bay laurel) or *Pyrus* spp. (ornamental pears) become problematic. In 2016, a treatment was applied for a suspected borer infestation of *Platanus x acerifolia* (London planetree) along Garden Grove Blvd. Moving forward, it will be important to first identify the pests and pathogens causing damage in order to (1) document their range, and (2) use management practices developed for the targeted pest/pathogen.

As pests and diseases are an ongoing threat to all forests, the city of Garden Grove should also continue to monitor for threatening invasive species, as well as common pests and diseases, that may cause damage to established trees. Pest management is especially critical as Garden Grove is part of a large urban center, with highly mobile human populations. This, coupled with the current changes in climate, increases the possibility of pest introductions and makes the community vulnerable to novel pests and diseases.

Invasive shot hole borers and fusarium dieback

The **polyphagous shot hole borer** and the **Kuroshio shot hole borer** (*Euwallacea* sp.) are invasive beetles introduced from Asia. They are involved in a disease called Fusarium dieback which is present in Southern California. The polyphagous shot hole borer was confirmed in Orange County on trees in the city of Orange in 2013 and Santa Ana in 2015 (Eskalen, 2015, 2019). The related Kuroshio shot hole borer has also been documented in Orange County. The invasive beetles feed on fungi that they carry into heartwood tissues of the tree. Some of the introduced fungi are tree pathogens that disrupt the flow of water and nutrients. Sometimes staining and gummosis can be seen around beetle entry and exit wounds, and typically cankers have formed at these sites. The beetles feed on the fungus rather than tree tissues so systemic insecticides may not be effective (Umeda et al. 2016).

The damage causes branch dieback, and over time can kill the tree (Eskalen et al. 2017). These beetles have the potential to colonize healthy or stressed trees and have a large host range consisting of more than 260 plant species. An estimated 119 of Garden Grove's landscape trees such as *Cupaniopsis* (carrotwood), *Platanus* (planetrees), *Koelreuteria* (Chinese flame tree, golden rain tree), *Quercus* (oaks), and *Acer* (maples) are at risk to polyphagous shot hole borer.

Citrus Greening

Similarly, **citrus greening** (*Candidatus liberibacter asiaticus*) is a bacterial disease spread by the Asian citrus psyllid. The disease causes bitter, hard fruit production, and is among the most concerning pests as it threatens the viability of California's citrus crop. While citrus species represent less than 1% of the public tree population, many residences in Garden Grove grow citrus trees. Due to quarantines in place to protect California's citrus crop, and the lack of effective treatments, infected trees must be destroyed and disposed of appropriately (Grafton-Cardwell et al. 2019). The result of citrus greening would be significant losses to canopy and cultural history of Orange County on both public and private property.



Granulate ambrosia beetle

The **granulate ambrosia beetle** (*Xylosandrus crassiusculus*) is also a pest of concern for Garden Grove. While the pest has not yet been detected in California, it has spread to multiple states since it was first detected in South Carolina in the 1970s. This beetle feeds on heartwood tissues. Secondary cankers can also form on the bark where beetle entrance and exit wounds occur. The ambrosia beetle has the potential to colonize healthy or stressed trees (Atkinson et al. 2000) and has a large hardwood host range. Several of the known hosts are widely planted in Garden Grove including *Lagerstroemia indica* (crapemyrtle), *Ulmus parvifolia* (Chinese elm), *Magnolia* spp. (magnolia), and *Liquidambar styraciflua* (sweetgum) (Cole, 2008).

Fusarium wilt

Canary Island date palm wilt, caused by the fungus *Fusarium oxysporum* f. sp. *canariensis*, is established in California and has the potential to impact a small percentage of Garden Grove's palms (Hodel, 2019). In contrast, fusarium wilt of queen and Mexican fan palm (caused by *Fusarium oxysporum* f. sp. *palmarum*) is not present in California. Yet if introduced, it poses a significant threat to both of Garden Grove's abundantly planted palms: *Syagrus romanzoffiana* (queen palm) and *Washingtonia robusta* (Mexican fan palm). The common name of each disease is indicative of the species of palm they infect, but they overlap in their biology, the symptoms they cause, and control. In palms, *Fusarium* wilt rapidly kills trees by disrupting the water-conducting tissues. First the pathogen attacks older leaves, the canopy looks thin and typically one side of a leaf desiccates and turns brown. Then the pathogen moves to other parts of the canopy. *Fusarium* wilt of palms is easily spread through wind transported spores, but also persists in plant tissues and soil. Effective controls for fusarium wilts are lacking, but sanitation measures can help prevent these diseases (Downer et al. 2009; Elliot, 2010).

Fire blight

Fire blight is a bacterial disease that can result in limb dieback or tree death (Teviotdale, 2011). *Pyrus kawakamii* (evergreen pear) and *Eriobotrya deflexa* (bronze loquat) each represent >1% of the community trees in Garden Grove and are all vulnerable to fire blight (*Erwinia amylovora*). To avoid the spread of the disease, managers should plant resistant trees and use proper sanitation while pruning or removing infected trees.

Emerald ash borer

Another pest of concern is **emerald ash borer** (*Agrilus planipennis*), which has rapidly and consistently spread throughout the eastern United States. All species of ash are susceptible to emerald ash borer, including those present in Garden Grove: *Fraxinus velutina* (velvet ash), *Fraxinus velutina* 'Modesto' (Modesto ash), *Fraxinus uhdei* (Shamel ash), and *Fraxinus angustifolia* (narrow-leafed ash). To date, this pest has killed hundreds of millions of ash trees (Emerald Ash Borer Information Network, 2019).

FUNDING

Stable and predictable funding is critical to effective and efficient management of the urban forest. Trees are living organisms that constantly grow and change over time. They also respond to a number of factors that affect tree health and structure, including nutrition, available water, pests, disease, wind, and humidity. While it might seem like most changes to trees take a long time to occur, some specific maintenance is critical at certain stages of life. For instance, young trees benefit greatly from early structural pruning and training. Minor, simple corrections can be applied at a low cost when a tree is young. However, if left unattended, they can evolve into very expensive structural issues and increased liability as trees mature (at which point it may be impossible to correct the issue without causing greater harm). Over-mature trees often require more frequent inspection and removal of dead or dying limbs to reduce the risk of unexpected failure. A stable budget allows urban forest managers to program the necessary tree care at the appropriate life stage when it is most beneficial and cost effective. Currently, the average annual cost to maintain a community tree in Garden Grove is \$66 (Garden Grove Urban Forest Resource Analysis, 2020).

TABLE 4: Investments in the Community Tree Resource in Garden Grove

Investments	Total (\$)	\$/tree	\$/capita
Purchasing Trees & Planting	4,688	0.27	0.03
Pruning	440,000	25.57	2.53
Stump Removal & Disposal	120,000	6.97	0.69
Pest and Disease Control	23,007	1.34	0.13
Repair/Mitigation of Infrastructure Damage	450,000	26.15	2.58
Litigation and Settlements	100,000	5.81	0.57
Total Investments	\$1,137,695	\$66.11	\$6.53

“LOOK DEEP INTO NATURE
AND YOU WILL UNDERSTAND
EVERYTHING BETTER.”

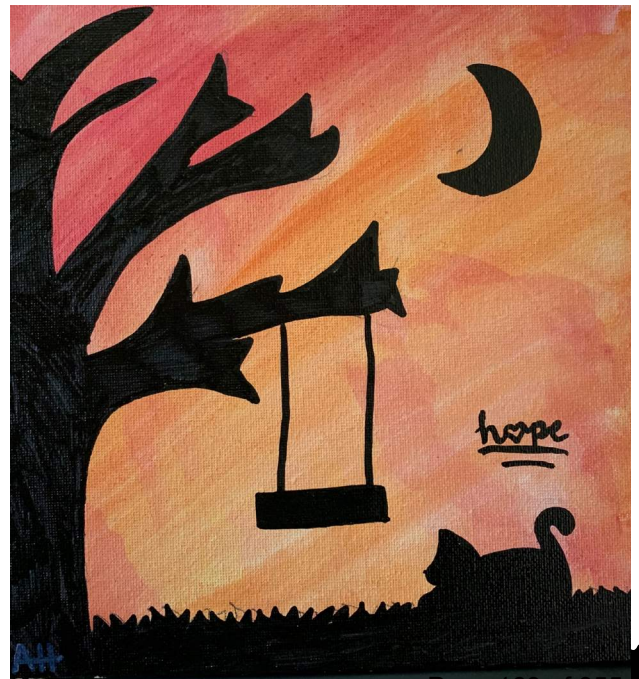
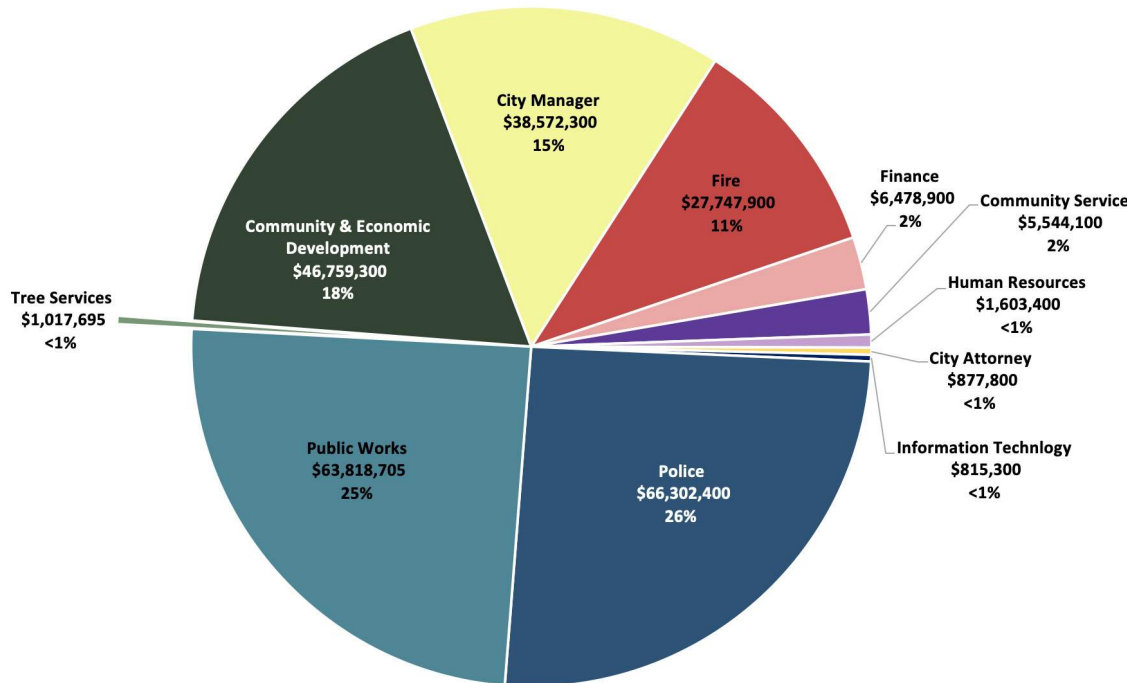
ALBERT EINSTEIN



Summary of Annual Funding

The average annual budget for Garden Grove's Trees and Streets Division is \$1.15 million (based on budgetary records from 2005-2018). The Trees and Streets Division receives a round 1.2% of the General Fund and \$150,000 of additional funding comes from the Gas Tax (Figure 2). Approximately 37%, or \$420,000 of the annual budget (including all Gas Tax funds) is dedicated to contracted services. Approximately 46% of budget, or \$530,000, is used to care for community trees (tree planting, maintenance, and service requests). A small proportion of funding is used to rent, purchase, or repair necessary equipment.

FIGURE 2: General Fund Annual Budget



Internal Partners

While the maintenance of community trees is primarily the responsibility of the Trees Division, a number of internal departments and teams share responsibilities for tree management, regulation, advocacy, and planning. The Urban Forest Management Plan (UFMP) process included engagement with internal stakeholders to identify challenges and opportunities to increase support and efficiency for urban forestry operations and programming.

COMMUNITY AND ECONOMIC DEVELOPMENT: PLANNING SERVICES

The Planning Division is primarily responsible for enforcing zoning ordinances and reviewing and inspecting projects on private property. While there is no Municipal Code that protects trees on private property, the Planning Division works with developers who are responsible for the planting and maintenance of public trees adjacent to construction sites.

Existing challenges and opportunities include:

- Trees are not prioritized in new developments and are often one of the first things to be cut when budgets are tight.
- The development process includes irrigation and maintenance requirements. Despite this, it is not uncommon for trees to be removed over time, and possibly due to attrition, following completion of the project. Replacement is mandatory unless the city grants an exception.
- The Trees Division has an opportunity to participate when trees are incorporated. Developers contact Public Works Department for information on the type of trees to plant and root barrier to install in the public rights-of-way. After planting the trees, they become the responsibility for the city to maintain.

Trees should be recognized as essential infrastructure. The benefits they provide to the community are critical to human health and well-being. The development process should include standards and specifications for planter site construction, planting/installation, and ongoing maintenance in accordance with ANSI Standards and ISA Best Management Practices. Review and input from the Trees Division should continue to be incorporated into plan development checklists.

COMMUNITY AND ECONOMIC DEVELOPMENT: CODE ENFORCEMENT

Code Enforcement is responsible for investigating concerns regarding compliance with the Municipal Code. The city owns the community trees in the park strip or easements and has responsibility for their maintenance. Residents can request tree maintenance but are not allowed to alter or plant trees in the easement without permission. Despite these regulations, challenges exist, including:

- Illegal pruning that devalues and harms public trees.
- Illegal tree plantings in the public right-of-way (an estimated 7%) which can exacerbate problems with infrastructure if the wrong tree is planted in the space.



Revisions to the tree protection ordinance (11.32.040) would improve clarity, codify the tree removal and replacement policy, and define penalties for violations. Trees that are required as part of a development agreement should be maintained to promote the desired intent (e.g., shade, aesthetics, etc.) and if trees are devalued and cannot be rehabilitated and/or die, replacement of trees, in accordance to the design code, should be required.

PUBLIC WORKS: SANITARY DISTRICT

The Garden Grove Sanitary District maintains and improves infrastructure related to the publicly owned wastewater. The Department provides service to the city's sewer lines, manholes, and lift stations. Tree Services coordinates with the Sanitary District to reduce and avoid conflicts with wastewater infrastructure. Challenges and opportunities include:

- Trees may conflict with sewer lines when they are planted too close to a main or lateral line, when roots cause uplifting and damage to lines, and when roots intrude into sewer lines and cause a blockage.
- Unclear, inconsistent policies for resolving and avoiding tree and infrastructure conflicts, including root pruning.

Tree planting and planning projects should be sure to include coordination between the Sanitary District and Tree Services to avoid conflicts with sewer laterals and mains. When tree conflicts arise, the Sanitary District should work closely with Tree Services to identify the best solution (e.g., root pruning, tree removal, etc.).

PUBLIC WORKS: WATER SERVICES DIVISION

The Water Services Division provides services that allow for safe drinking water and promotes water conservation. Water regulations are the responsibility of this Division. The Trees Division works with Water Services when there are infrastructure conflicts. Challenges and opportunities that were identified include:

- Water mains are often located underneath park strips or pedestrian rights-of-way, making it impossible to plant a tree without the anticipation of conflict.
- Trees may conflict with water lines when they are planted too close to a main or lateral line, when roots cause uplifting, damage, and water leaks.

Street reconstruction and improvement projects should include moving water lines from planter strips to underneath the street when possible. Tree planting and planning projects should be sure to include coordination between the Water Services Division and Tree Services to avoid conflicts with water laterals and mains. When tree conflicts arise, the Water Services Division should work closely with Tree Services to identify the best solution (e.g., root pruning, tree removal, etc.).



PUBLIC WORKS DIVISION: STREETS/ASPHALT

The Streets/Asphalt Division is responsible for maintaining Garden Grove's streets, sidewalks, curbs and gutters. When trees damage hardscapes, the Streets/Asphalt Division communicates with the Trees Division to mitigate the damage. Challenges and opportunities include:

- Some tree species are more prone to infrastructure conflicts. Planting the right tree in the right place can reduce conflicts including raised sidewalks and streets.
- Root pruning should follow ANSI Standards and ISA Best Management Practices.

COMMUNITY SERVICES: PARKS AND FACILITIES

Parks and Facilities provides attractive greenspaces, recreational opportunities, and programming to enhance the well-being of residents. Parks staff provide some maintenance to park trees, including trimming of low-hanging limbs. Challenges and opportunities include:

- Parks staff are aware that mowing or weed whacking too closely to the trunk can damage trees. Continue to ensure that new hires are properly trained to avoid damaging trees.
- Mulch rings around trees can reduce the need for string trimming, help control weeds, improve conditions for tree roots by promoting infiltration and retention of water, and increase soil organics and fauna.
- Vandalization of trees in parks, including the inappropriate use of tree stakes (i.e., attaching objects to them or hanging/pulling on them).
- Parks staff should be informed and trained to identify hazardous conditions in trees. Staff should notify Tree Services for an appropriate risk assessment.

Parks and Facilities should continue to coordinate with Tree Services to ensure that trees are maintained for health and safety. Formalize and document training to ensure that parks maintenance staff are aware of common tree hazards and the importance of avoiding damage to tree trunks and major limbs. Coordinate with Parks and Facilities for tree design and installation in parks. Use mulch rings where appropriate to promote tree health and protection.

FINANCE: RISK MANAGEMENT

The Trees Division works closely with Risk Management to address claims related to trees. Approximately 30% of city claims are related to trees, including trip and fall injuries resulting from sidewalks uplifted by tree roots, bodily injury and property damage due to falling tree limbs, property damage due to tree trimming activities, and damage to sewer systems due to tree roots. Challenges and opportunities include:

- Planting the appropriate tree species for the available space (Right Tree Right Place) can help to reduce infrastructure conflicts (e.g., uplifted sidewalks).



- Develop a risk management policy for community trees, including inspections, risk assessment, and thresholds for action and mitigation.

Planting the right tree in the right place is a first step for improving the health and safety of the urban forest. Regular inspection and maintenance of community trees helps to ensure good structure and long-term health, as well as proactive management of risk and liability.

External Partners

SOUTHERN CALIFORNIA EDISON

Tree versus utility conflicts are a common source of concern for electric providers. Trees that grow into power lines can cause electrical outages and fires. They can even conduct an electric shock to someone who comes into contact with a tree that is contacting a high-voltage line.

In California, all utility providers are subject to General Order 95; Rule 35 Vegetation Management (California Public Utilities Commission, revised 2012) and FAC-003-2 Transmission Vegetation Management (NERC), which outlines requirements for vegetation management in utility easements. These requirements include clearance tolerances for trees and other vegetation growing in proximity to overhead utilities.

Many street trees located under power lines are too large for the site, requiring extreme pruning to maintain clearance. Trees located under utility lines must be directionally pruned by trained, authorized line clearance personnel. Selecting small-stature tree species that are utility-friendly for planting sites in utility right-of-way can minimize the need for these maintenance activities. Tree Services currently prioritizes tree planting on the south and west sides of streets to avoid conflicts with power lines which are generally on the north and east sides.

CALFIRE

Under the authority of the Urban Forestry Act (PRC 4799.06–4799.12), the California Department of Forestry and Fire Protection's Urban & Community Forestry Program works to expand and improve the management of trees and related vegetation in communities throughout California.

The mission of the California Department of Forestry and Fire Protection's Urban Forestry Program is to lead the effort to advance the development of sustainable urban and community forests in California. Trees provide energy conservation, reduction of storm-water runoff, extend the life of surface streets, improve local air, soil and water quality, reduce atmospheric carbon dioxide, improve public health, provide wildlife habitat and increase property values. In short, they improve the quality of life in our urban environments which, increasingly, is where Californians live, work, and play. The program also administers State and Federal grants throughout California communities to advance urban forestry efforts. (fire.ca.gov)





Policy and Regulation

The development of Garden Grove's Urban Forest Management Plan (UFMP) included a comprehensive review of city policies, development and construction standards, ordinances and other regulations that apply to the urban forest. The following provides a summary of the review process and key findings.

FEDERAL AND STATE LAW

Endangered Species Act

Signed in 1973, the Endangered Species Act provides for the conservation of species that are endangered or threatened throughout all or within a significant portion of their range, as well as the conservation of the ecosystems on which they depend. The listing of a species as endangered makes it illegal to "take" (i.e., harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, collect, or attempt to do these things to) that species. Similar prohibitions usually extend to threatened species.

Migratory Bird Treaty Act

Passed by Congress in 1918, this act defines that it is unlawful to pursue, hunt, take, capture, kill, possess, sell, purchase, barter, import, export, or transport any migratory bird, or any part, nest, or egg or any such bird, unless authorized under a permit issued by the Secretary of the Interior.

The Migratory Bird Treaty Act can impact forestry operations during times when birds are nesting, which may delay work in order to avoid violating the MBTA.

California Urban Forestry Act

Section 4799.06-4799.12 of the California Public Resources Code defines a chapter known as the California Urban Forestry Act. The act defines trees as a "vital resource in the urban environment and as an important psychological link with nature for the urban dweller." The act also enumerates the many environmental, energy, economic, and health benefits that urban forests provide to communities.

The purpose of the act is to promote urban forest resources and minimize the decline of urban forests in the state of California. To this end, the act facilitates the creation of permanent jobs related to urban forestry, encourages the coordination of state and local agencies, reduces or eliminates tree loss (through the reduction/control of pests/disease), and is intended to prevent the introduction and spread of pests. The act grants the authority to create agencies and mandates that urban forestry departments shall provide technical assistance to urban areas across many disciplines (while also recommending numerous funding tools to achieve these goals).

Model Water Efficient Landscape Ordinance

To promote the conservation and efficient use of water and to prevent waste, a Model Water Efficient Landscape Ordinance (MWELO) was adopted in 2009 and later revised in 2015. The Ordinance requires increases in water efficiency standards for new and retrofitted landscapes through the use of more efficient irrigation systems, greywater usage, and onsite stormwater capture. It also limits the portion of landscapes that can be covered in turf.



California Global Warming Solutions Act

In 2006, the California Global Warming Solutions Act (Assembly Bill 32) was implemented to reduce greenhouse gas emissions. Through this act, California was the first state in the nation to initiate long term measures to help mitigate the effects of climate change through improved energy efficiency and renewable technology. California approached the goal to reduce emissions to 1990 levels by 2020 through direct regulations, market-based approaches, voluntary measures, policies, and programs. The 2015 update set targets to reduce greenhouse gas emissions to 40 percent below 1990 levels by 2030.

California Solar Shade Control Act

Passed in 1978, California's Solar Shade Control Act supported alternative energy devices, such as solar collectors, and required specific and limited controls on trees and shrubs. Revised in 2009, the act restricted the placement of trees or shrubs that cast a shadow greater than ten percent of an adjacent existing solar collector's absorption area upon the solar collector surface at any one time between the hours of 10 a.m. and 2 p.m.

The act exempts trees or shrubs that were:

- Planted prior to the installation of a solar collector
- Trees or shrubs on land dedicated to commercial agricultural crops
- Replacement trees or shrubs that were planted prior to the installation of a solar collector and subsequently died or were removed (for the protection of public health, safety, and the environment) after the installation of a solar collector
- Trees or shrubs subject to City and county ordinance

Public Park Preservation Act

The Public Park Preservation Act of 1971 ensures that any public parkland converted to non-recreational uses is replaced to serve the same community.

Quimby Act of 1975

The Quimby Act aims to offset the impact of development by requiring developers building in parcels of land intended for parks/recreational use to set aside land, donate conservation easements, or pay fees for park improvements.

GARDEN GROVE MUNICIPAL CODE

The Garden Grove Municipal Code has seven Titles that pertain to trees including Title 5, Title 6, Title 8, Title 9, Title 10, Title 11, and Title 18.

Title 5: Business Operation Taxes, Permits, and Regulations

Recognizes tree related professions in the list of service-related business activities.

Title 6: Health and Sanitation

Defines "rubbish" to include tree trimmings.



Title 8: Peace, Safety, and Morals

Prohibits damaging, or chaining/fastening any object to trees in the public right-of-way.

Title 9: Land Use

Provides minimum setbacks and dimensions for landscape zones in transportation corridors. Prohibits trees from inhibiting standard visibility parameters on public and private property. Includes design specifications and exceptions for the use of trees as screening in residential areas. Requires water use compliance with MWELO.

Encourages trees when consistent with other provisions. Prohibits the use of artificial trees as substitutes for live trees even in conjunction with artificial turf. Requires tree stakes to be used in accordance with standards maintained by the city.

Defines requirements for landscape maintenance, including, removal of dead, decayed, diseased or hazardous trees, weeds and debris constituting unsightly appearance, dangerous to public safety and welfare, or detrimental to neighboring properties or property values. Defines the minimum standard of maintenance for vacant, unoccupied, or abandoned buildings.

Provides development standards and tree requirements and for public areas. Defines landscape requirements for pedestrian plazas. Prohibits the removal of trees in designs for outdoor dining areas. Requires the use of trees in unpaved areas. Provides the minimum number of trees to meet standards for parking lot landscaping and street setbacks. Prohibits trees under certain building features and requires the use of root barricades in landscape planters.

Requires the use of trees in mixed use land use designations. Explains parkway tree fees and requires developers to set aside land, pay fees, or both in order to uphold the designated parkland per capita ratio. Allows for review and modification of proposed development sites, plans to meet the minimum standards in regard to the size and species of trees. Outlines the use of trees in landscapes, including, location, use of root barriers, tree staking, visibility, site requirements, and street trees.

Title 10: Vehicles and Traffic

Provides minimum clearance heights for trees over streets and near signs and signals. Requires any accidents that damage utilities, including trees, to be reported. Allows City Traffic Engineers to require the alteration or removal of a tree, hedge, or shrub causing an obstruction. Requires the consideration of existing right-of-way infrastructure, including trees, in development plans.

Title 11: Public Property

Provides definitions for park, private street or vehicular thoroughfare, public places, public thoroughfares, and trees and shrubs. Defines acts that require written permission by the city Manager.



Prohibits dead, decayed, diseased, infested, or hazardous trees on private property that create an unsightly appearance or are dangerous to public safety and welfare. Designates property owners responsible for any unsafe or nuisance trees and authorizes the city Manager to require property owners to correct or remove unsafe or nuisance trees.

Outlines protections for public trees, prohibits (1) pouring substances, or releasing pollutants such as chemicals, fumes, or vapors (and the associated heat) that may be injurious to trees in public spaces, and (2) leaking gas pipes or mains within the root zone of trees.

Gives the City Manager the authority to review and issue permits for construction projects within the city limits. Requires the protection of trees during construction.

Restricts contact between electrical wires and trees or shrubs unless the wires protected by approved methods. Requires the owner or contractor to assume full responsibility for the removal, replacement, repair, or alteration of trees along a public highway that are damaged from moving buildings or objects. Deems the owner or contractor of structures adjacent to public trees responsible for protecting non-city structures during tree operations.

Allows the City Manager, or a person they designate, to enforce compliance of the regulations in this chapter without interference. The violator is to assume full responsibility for the removal, replacement, repair, or alteration of such trees. Defines the responsibilities of City Council regarding tree code.

Title 14: Water

Provides water conservation measures that apply on a mandatory basis, including but not limited to: limiting watering hours, watering duration, prohibiting watering or irrigating in a manner which causes or allows water to flow or runoff onto adjacent hardscapes, watering within 48 hours after measurable rainfall, and irrigation of landscape outside of newly constructed home and buildings must comply with regulations established by the California Building Standards Commission and the Department of Housing and Community Development.

Title 18: Building Codes and Regulations

Designates trees and shrubs as recyclable/reusable materials.

GARDEN GROVE GENERAL PLAN

Chapter 1: Introduction

The Garden Grove General Plan is a document consisting of 11 elements (Land Use, Community Design, Economic Development, Circulation, Infrastructure, Noise, Air Quality, Parks, Recreation, and Open Space, Conservation, Safety, and Housing) adopted by the city Council. For each element, the plan provides goals, policies, and an implementation program. It provides visions for Garden Grove's desired land use types, their distribution, and development density; community character goals; future infrastructure needs; public safety needs.

Chapter 2: Land Use Element

Explores ways to enhance and support the character of the city by requiring landscaping in certain residential developments as well as enhancing and supporting current open space and streetscape plantings.



Chapter 3: Community Design Element

In order to uphold the unique attributes of regions within the city, this element recommends using landscape trees to improve the aesthetics and quality of life as well as decrease the urban warming effect. This element focuses on recommendations for the following:

- (1) Private outdoor spaces: Use street tree plantings to help uphold the theme of the neighborhood, enhance residential areas without plantings.
- (2) Pathways: Encourage making pathways pedestrian friendly by striving for wide walkways with plantings with double rows of canopy trees, and trees between sidewalks and streets in either tree wells or parkways.
- (3) Corridors: Strive to continually enhance corridors by putting in streetscape and median plantings where they do not exist, incorporating trees specific to the district area. Recommends developing a residential street tree planting and replacement program, while installing proper irrigation systems and planting water-wise species to promote comfortable and safe corridors.
- (4) Main districts: Enhance streetscapes, advocate for the authenticity of the main districts (e.g., maintaining the sycamore trees on Main street by planting sycamores or a similar type of tree).
- (5) Entries: Clearly designate entries into and within the city with distinct landscaping that promotes the character and cultural heritage of the area.

Chapter 4: Economic Development Element

Recommends improving upon streetscapes, as this can attract development and create distinct, and therefore more memorable, districts within the city.

Chapter 5: Circulation Element

Advocates for attractive landscaping along existing and future roadways, within medians, and along sound walls.

Chapter 6: Infrastructure Element

Aims to meet the water systems needs of the city by recommending the implementation of drought tolerant landscaping.

Chapter 7: Noise Element

Aims to minimize noise impacts along streets through sound dampening measures such as the installation of landscaping and berms.

Chapter 8: Air Quality Element

Proposes a residential shade tree program that would provide trees to residents, as well as an urban forest plan to help in planting additional trees citywide, to reduce energy consumption.



Chapter 9: Parks, Recreation, and Open Space Element

Aims to provide ample open space (a goal of 5 acres for every 1,000 people) through preservation and expansion. It also calls for visually appealing landscaping along corridors and diverse landscaping throughout Garden Grove in order to promote ecosystem services and support the well-being of the community.

Chapter 10: Conservation Element

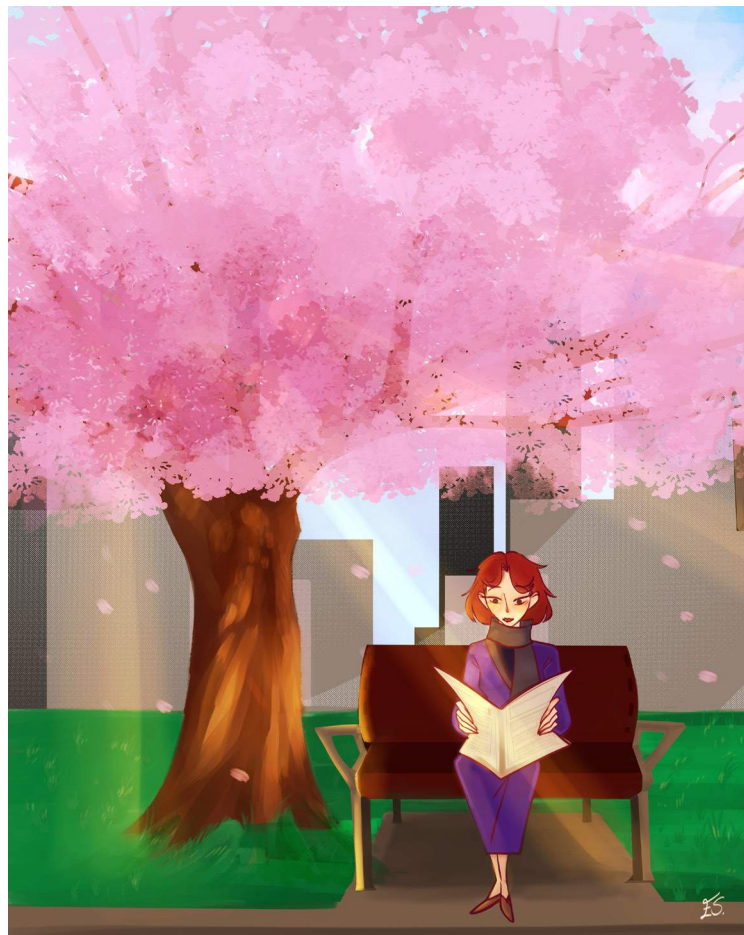
Identifies Garden Grove's existing trees as components of biological habitat in the city and gives examples of trees with significant cultural or historic value (e.g., Stone Pines located on the south side of Chapman, walnuts at Stanley Ranch). Promotes water conservation through the use of drought tolerant and native plants. Identifies that a tree-planting program emphasizing appropriate, water efficient trees will aid in their energy goals. Protect and improve water quality designing and constructing facilities and landscaping to minimize the volumes of pollutants and maximize pest resistance.

Chapter 11: Safety Element

Encourages crime reduction through deliberate site design, including landscape design.

Chapter 12: Housing Element

Recommends open space such as yards and landscaping in communities to increase quality of life.



Orange County's Urban Forest Grand Jury Report

The Orange County Grand Jury recognized a disparity amongst the urban forests within the county and disconnect where cities in California do not place the same importance on maintaining a robust urban forest as they do other infrastructure. As a result, tree canopy is declining even despite the benefits trees provide. The 2018–2019 Grand Jury report recognizes that urban forests benefit residents by improving environmental conditions, public health, and economic stability of the community, and they enumerate upon the positive effects of trees in this report. Therefore, the Grand Jury recommends all communities in Orange County maintain or develop aggressive urban forest programs.

To further investigate the state of Orange County's urban forest, the Grand Jury (1) performed a literature review, (2) sent out requests for data from each city, and (3) compared the extent of community tree canopy to the population within each community. They found:

- Many reasons for the decline in tree canopy, and provide considerations on tree selection, placement, and management to promote increased longevity of street trees.
- Tree related financial liabilities are minimal, and the benefits of trees are not quantified or recognized.
- Urban forestry funding varies by city, but many cities in Orange County have a small in-house crew and contract tree work.

In relation to other cities in Orange County, Garden Grove is among the top funded urban forestry programs and falls in the middle for the ratio of trees per resident.



GARDEN GROVE PARKS, RECREATION, AND FACILITIES MASTER PLAN

The *Parks, Recreation, & Facilities Master Plan* is a document that guides the future development and redevelopment of Garden Grove's parks, facilities, and services. During the plan development process, community members' highest priority request was more trails for walking, hiking, and bicycling in Garden Grove. Trees are important to improving the character and usage of parks and park facilities by increasing shading and helping mitigate the effects of the urban heat island. Furthermore, tree plantings around pedestrian and bike trails provide barriers that lessen the impact of adjacent cityscapes (e.g., traffic, noise, and air pollution) and increase the overall aesthetics. In addition, tree planting was identified as a way to improve the parks system. A number of park facilities were identified for renovation, as such they were designated to plant a specified number of trees. The cost of providing additional trees to each of the identified parks was estimated, and some funding sources were mentioned as ways to generate additional funding for parks and facilities improvements.

GARDEN GROVE ACTIVE STREETS MASTER PLAN

The *Active Streets Master Plan* envisions creating a network of green infrastructure throughout Garden Grove to make walking and biking in the community easier and more desirable. Garden Grove residents identified five main factors that would foster a more pedestrian-friendly community, including the incorporation of shade trees. Tree plantings around pedestrian and bike trails provide barriers that lessen the impact of adjacent roads and increase the aesthetics. Tree canopies can also improve the character and usage of trails by increasing shading and helping mitigate the effects of the urban heat island. The vision of pedestrian and bike facility infrastructure proposed in the plan incorporates shade trees.

TREE CARE FOR BIRDS AND OTHER WILDLIFE: BEST MANAGEMENT PRACTICES IN CALIFORNIA

Tree Care for Birds and Other Wildlife aims to provide information on tree care practices that result in minimal impact to wildlife and abide by wildlife protection laws (Donohue et al. 2018). Knowledge about the wildlife, and their nesting and feeding activities is important consideration when managing trees to reduce impact on wildlife. The following actions are best management practices to avoid wildlife encounters and minimize disturbance:

- Be aware of wildlife in the area.
- Train tree workers to be prepared for encountering wildlife.
- Assess habitat quality and determine the breeding season of local wildlife.
- Consult or provide wildlife-trained arborist or wildlife biologist when encounters are likely, or with questions on how to best work in the case of encountering wildlife.
- Conduct pre-work inspections to identify any wildlife or active nests present at the work site.
- Leave nests, eggs, or young in trees.
- Respond to emergencies.



- Minimize disturbances by taking nest status, distance from nest, temperature, duration of project, and proper tool selection (e.g., hand tools) into consideration.
- Schedule inspections in rare situations where permission is needed to remove a tree with an active nest.

The document also provides plant management techniques that can increase habitat quality for wildlife, including:

- Follow best management practices for tree establishment, care, and removal.
- Maintain mature trees.
- Use pest control tactics that minimize the risk to non-target organisms.
- Increase species, age, and spatial diversity of trees.
- Integrate shrubs and groundcovers.
- Plant native species of trees, shrubs, and groundcovers.
- When public safety allows, leave some dead, dying, or declining trees.
- Trim mature trees to reduce risk, but maintain material when possible to provide habitat.
- Use existing trees to increase habitat (girdling, creating snags or cavities).
- Incorporate nest boxes and tree parts into landscapes.

RE:IMAGINE GARDEN GROVE

Re:Imagine Garden Grove was a 2015 initiative to engage the community in the visioning process using online platforms including a “MindMixer” and survey. The community indicated that tree canopy and walkable streets are important. The energy and ideas from *Re:Imagine Garden Grove* initiated the creation of the *Active Downtown Plan*.

ACTIVE DOWNTOWN PLAN

Garden Grove’s *Active Downtown Plan* aims to create a more walkable and bike-able downtown area. The plan acknowledges that street trees play a key role in pedestrian-friendly environments and calls for engineering projects such as curb extensions and bulb-outs to increase the amount of space available for street infrastructure, including trees. The *Active Downtown Plan* identifies funding sources that would help meet the goals for the downtown area. It mentions one funding source, the *California Natural Resources Agency for Urban Greening Grant Program*, focused on urban greening to help expand tree canopy and the associated carbon sequestration and energy reduction benefits.



Conclusion

Garden Grove has a strong foundation to build a robust urban forestry program, considering an existing maintenance program (3 to 4-year cycle); a dedicated and established Trees Division; a detailed tree inventory and inventory management system that tracks urban forest assets; a Land Cover Assessment that includes GIS mapping of the location and extent of Garden Grove's entire tree canopy (public and private); and a Resource Analysis that benchmarks the composition, benefits, value of the community tree resource. While Tree City USA status is currently lapsed, Garden Grove meets all of the requirements (and more) to reclaim that status.

The Trees and Streets Division is responsible for the maintenance of 17,210 trees in parks, medians, city-owned facilities, and the public rights-of-way. In addition, the section is also responsible for maintaining flood control infrastructure and emergency response. Despite budget cuts and staff reductions, staff have managed to maintain timely customer service and support for new tree plantings. Going forward, it is likely that additional staffing and funding will be needed to support canopy growth and ongoing maintenance for new trees and a more proactive maintenance approach.

Trees are living organisms, constantly changing and adapting to their environment and increasing in size over time. Because of this, trees have specific needs at various life stages, including training for proper structure when they are young and increased monitoring and proactive risk management when they become mature. In recent years, there has been a greater need for tree removals, which has reduced the capacity for tree trimming and other maintenance operations. US municipalities with similar populations strive to meet a 5 to 7-year maintenance cycle (Sustainable Urban Forest Indicators). Extending the current maintenance cycle (3–4 years) could allow for additional tree planting and maintenance, as well as more proactive approach to training and structural pruning for young trees. Young tree training is especially important for species that will develop into large-stature trees. Training provides an opportunity to address structural issues when trees are small. Removing undesirable branches when they are small is better for the tree and also more cost-efficient. Smaller cuts heal more quickly, require less time and safety considerations for tree crews, and reduce the need for debris disposal. The benefits of providing training pruning now, will result in trees with better structure and reduced costs for maintenance in the future.

While it is important to maintain trees for as long as possible, inevitably trees decline and die. To reduce waste and increase the post-life value of larger trees, the city should continue to partner with contractors and explore developing a wood utilization program to reuse woody materials whenever possible. For trees that do not meet appropriate standards for upcycling, the city should process wood chips for use by the Trees Division and for use in residential and business landscapes.

Although existing infrastructure limits available planting space and planter size, it is important to recognize that impervious surfaces and canopy cover can co-exist in many instances, especially with appropriate design standards. Canopy that extends over hardscape features, including parking lots, streets, and structures can add to the overall amount of canopy cover and reduce the ratio between canopy cover and impervious surfaces. While historical planting of some species in inappropriate sites has resulted in conflicts with hardscape and other infrastructure and contributed to high maintenance costs, when the right tree species are planted in the right place, the shade provided by tree canopy can



demonstrably extend the lifespan of materials used in the construction of hardscape features (McPherson and Muchnick, 2005).

Currently, there are 12,172 available planting sites for community trees identified in the inventory. Community members expressed a desire for additional tree planting and higher canopy. While the simple solution would be to fill all available planting sites, it is important to have a robust planting plan guided by the principles of Right Tree Right Place. A plan that increases species diversity and reduces reliance on overrepresented tree species, with a focus on community aesthetics will ensure that community vision for the future urban forest is realized. New and redevelopment projects should emphasize that trees are essential. Preserving existing trees, including during drought, and providing appropriate care to maximize their value and useful life is important for the protection of this natural resource and the benefits provided to the economy and quality of life in Garden Grove. Updating the tree ordinance to reflect current policies will ensure the consistent application of permits and the tree removal process along with providing clarity for tree protection.

The Land Cover Assessment conducted in 2019 revealed that the city has 7.9% tree canopy cover. While the canopy cover is comparatively lower than the average canopy cover across the Southern California Coast Climate Region, there are many opportunities for expansion of canopy across the community. Community members indicated support for setting a goal of 15% canopy cover. Preservation and expansion of existing canopy cover requires proactive and adequate replacement of new trees when trees are removed due to failing health or structure or as a result of development. To meet long-term canopy goals, ongoing planting efforts should continue to focus on ensuring that available sites in the public rights-of-way are planted with the right tree in the right place. Additional investment, support for education (e.g., tree care, species selection), and incentives for trees on private property will be integral to overall canopy growth. It is evident that many Garden Grove residents appreciate trees and value their contribution to the community.



• What do we want?

To better understand how the community values the benefits of the urban forest resource and to provide residents and other stakeholders an opportunity to express their views about management policy and priorities, the Urban Forest Management Plan (UFMP) development process included an electronic stakeholder survey, in-person interviews, a community meeting, and community outreach events.

Managing Partners

While awareness may vary, many individuals and departments within the city share some level of responsibility for the community urban forest, including planning for, caring for, and/or affecting the policy of urban forest assets. City partners were invited to participate in an interview and discussion about their role and perspective for the urban forest as well as their views, concerns, and ideas for the plan. The input from the surveys and meetings will provide vision and direction for managing community trees.

STAKEHOLDER INTERVIEWS

Ten stakeholders were identified by city staff as valuable contacts for the development process of the plan. Stakeholders include staff from the city of Garden Grove's Public Works Department (Administration, Environmental Services, Streets Divisions), Community and Economic Development Department (Administration, Real Property, and Planning Services Divisions), Community Services Department (Parks and Facilities), and Finance Department (Risk Management). In-person interviews were conducted to allow for a more nuanced and in-depth discussion of the urban forest and the urban forest management. These interviews provided important information about the current function of the Trees Division program and potential for improvement. Concerns, requests, and suggestions from all stakeholders were of primary interest and were provided full consideration in the development of the plan.

Managing Partners

- **Public Works Department**
 - Administration
 - Environmental Services
 - Streets Divisions
- **Community and Economic Development Department**
 - Administration
 - Real Property
 - Planning and Services Divisions
- **Community Services Department**
 - Parks and Facilities
- **Finance Department**
 - Risk Management

The following were key points raised during the stakeholder interviews:

1. The community's trees are aging and trees are being removed more quickly than they are being replaced.
2. Updating street tree ordinances and incorporating a street tree removal and replacement policy that reflects the community's goals in the Municipal Code is needed.
3. Competing utility easements restrict the space available for planting trees. Notably, the water mains are in the right-of-way, directly under street trees. The existing tree wells are small, only allowing for the addition of small stature trees along streets.
4. A comprehensive tree planting list is needed to allow for sufficient diversity and help plan for Right Tree Right Place practices.
5. Irrigation was cut off to community trees as a result of the drought, and trees would benefit from irrigation upgrades and restorations to smart controllers.
6. Concern surrounding public safety in regard to sidewalks lifting and creating tripping hazards and failing branches in maturing trees.
7. A strong desire to have an active and engaged community group whose goal is to preserve and protect the urban forest.
8. A need for more education opportunities for the public regarding the care of trees planted in the public right-of-way within residential areas. Not all homeowners realize their responsibility to care for these trees; as a result, not all trees are receiving adequate care.
9. Trees are primarily valued for environmental benefits, specifically shade and air quality improvement. They are also valued for their aesthetics and privacy screening. To this end, managing partners expressed a desire to use trees in landscaping that revitalize transitions and City entrances.
10. Some departments view trees as a hindrance to development, or a complication to the maintenance of other infrastructure.
11. Formalize the tree inventory to help improve management, identify planting locations, and more accurately assess the costs and benefits of public trees.





Community Engagement

A community meeting was held on Tuesday, February 18th, 2020, from 6:00 p.m. to 8:00 p.m. at the Community Meeting Center. It was advertised through social media, city emails, the city website, and city newsletters. Press releases were disseminated to traditional, electronic, and ethnic media. It was also attended by 15 community members, two City Council members, and five city staff members, and therefore does not reflect the opinions of the community as a whole.

The meeting included an interactive presentation about the community's urban forest and current program status. During the presentation, attendees provided input to poll questions as well as discussion, which contributed to the identification of goals and objectives for the UFMP. Attendees were asked to provide their input on various urban forest topic areas, including benefits of urban trees, canopy cover goals, tree planting, tree care, tree removal and replacement policies, protections for healthy community trees, preferred methods of outreach/engagement, and educational topics for outreach.

Overall, attendees thought trees improved the quality of life in Garden Grove and most valued benefits to air quality. Participants supported tree planting regardless of the location, favored setting a canopy goal of 15% and an increased level of services for community tree care. Although split on opinions about the current Council Policy for Tree Removal, they supported stronger standards for issuing tree removal permits. If community tree removals occur, they supported required replacement plantings, contributions to a Tree Fund, and fines for illegal removals. Participants expressed an interest in species selection and the benefits provided by trees and as topics for future educational programming and preferred a variety of outreach methods.

In addition, attendees voluntarily expressed a desire for an increase in funding for urban forestry in Garden Grove with the vision of increasing habitat for wildlife, providing more shade, and addressing climate change. An emphasis was also placed on engaging youth and partnering with schools to enhance the urban forest.

An informational booth was set up in Garden Grove parks to give community members an opportunity to engage in planning for the future urban forest. DRG and City staff provided information about Garden Grove's urban forest and access to the online community survey. The booth was set up on November 22nd, 2020 at Haster Basin and Garden Grove Parks, and on November 23rd, 2020 at Village Green and Eastgate Parks. The event was advertised through social media, city emails, the city website, and in city newsletters.



Online Community Survey

In addition to the in-person community engagement, an online survey was available on the city website. The survey included the same questions that were asked at the community meeting and made available at the informational booth. Responses were collected from February 4th to November 30th, 2020 and a total of 306 people responded to the survey. For complete survey and results, see Appendix H.

The majority of respondents indicated that they appreciate trees for improving air quality and providing wildlife habitat. (Figure 3) Overwhelmingly, respondents felt that trees are important to the quality of life in Garden Grove and the community would benefit from the incorporation of more trees. Respondents indicated a preference for tree planting along streets and in parks, but also supported planting in all other areas. (Figure 4) When asked what canopy goal Garden Grove should adopt, 74% of respondents preferred 15% canopy cover.

There was not a clear consensus as to whether or not respondents supported the petition process for the removal of otherwise healthy public trees. Most participants felt that additional public tree protections should be included in the future tree protection policy (Figure 5). In addition, 77% of participants supported mitigation measures when a public tree is removed through tree replacement or a contribution to a tree fund.

Most participants are aware of the city's Trees Division and would prefer an increased level of tree care. Tree selection, basic pruning, and watering were the educational topics of most interest to participants. Overall, 70% of respondents prefer web based educational materials.

FIGURE 3: Environmental Benefits Valued by Residents of Garden Grove

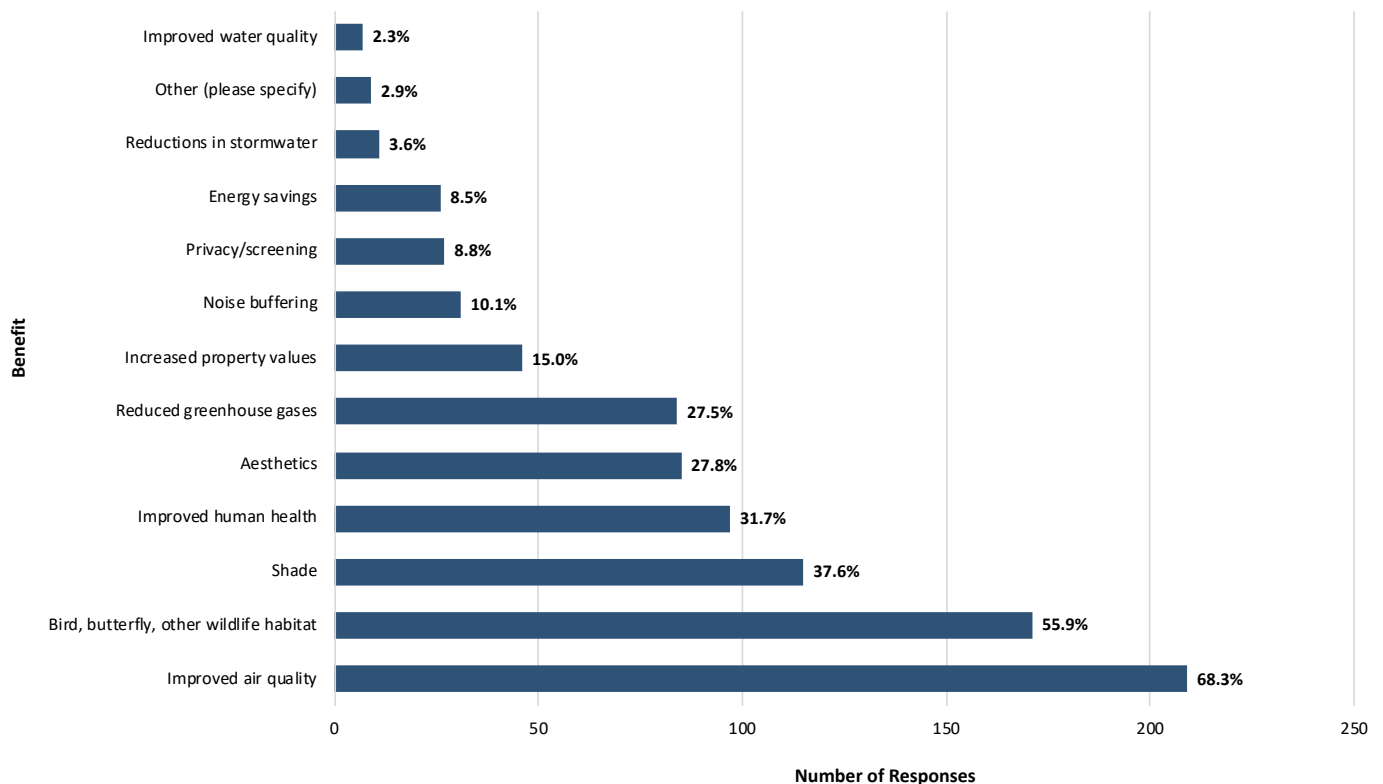


FIGURE 4: Locations where Residents Encourage Tree Planting

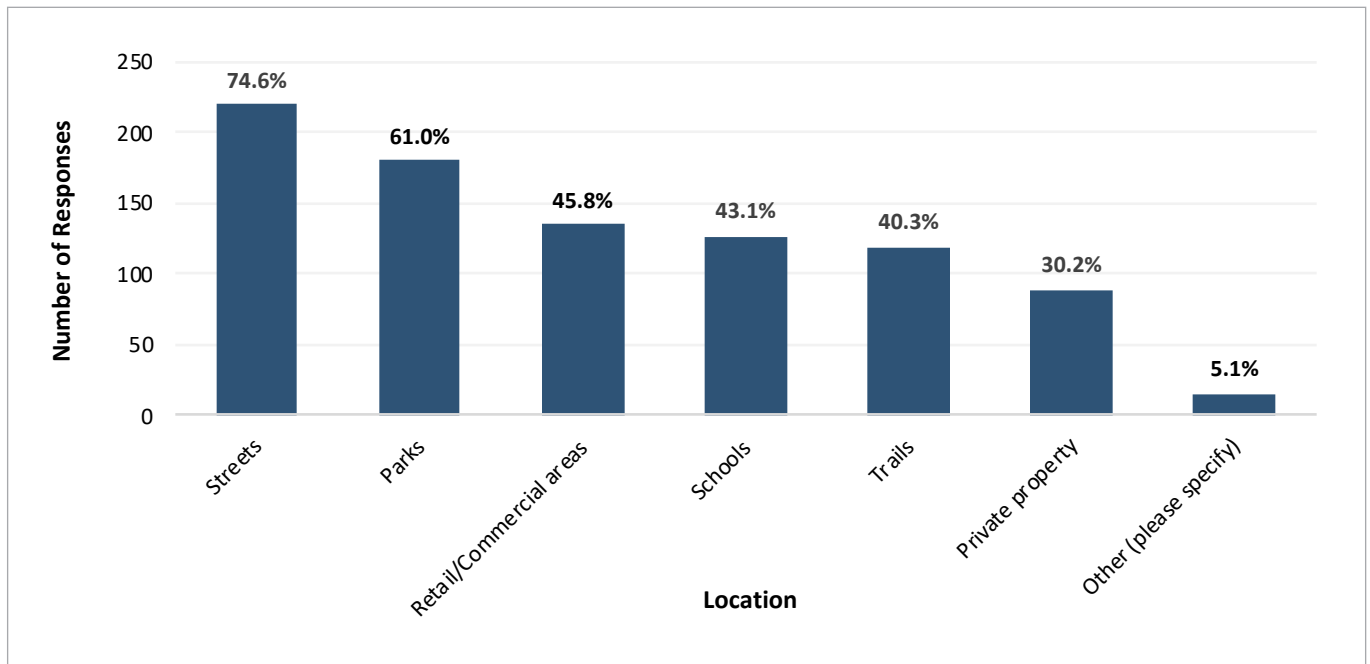
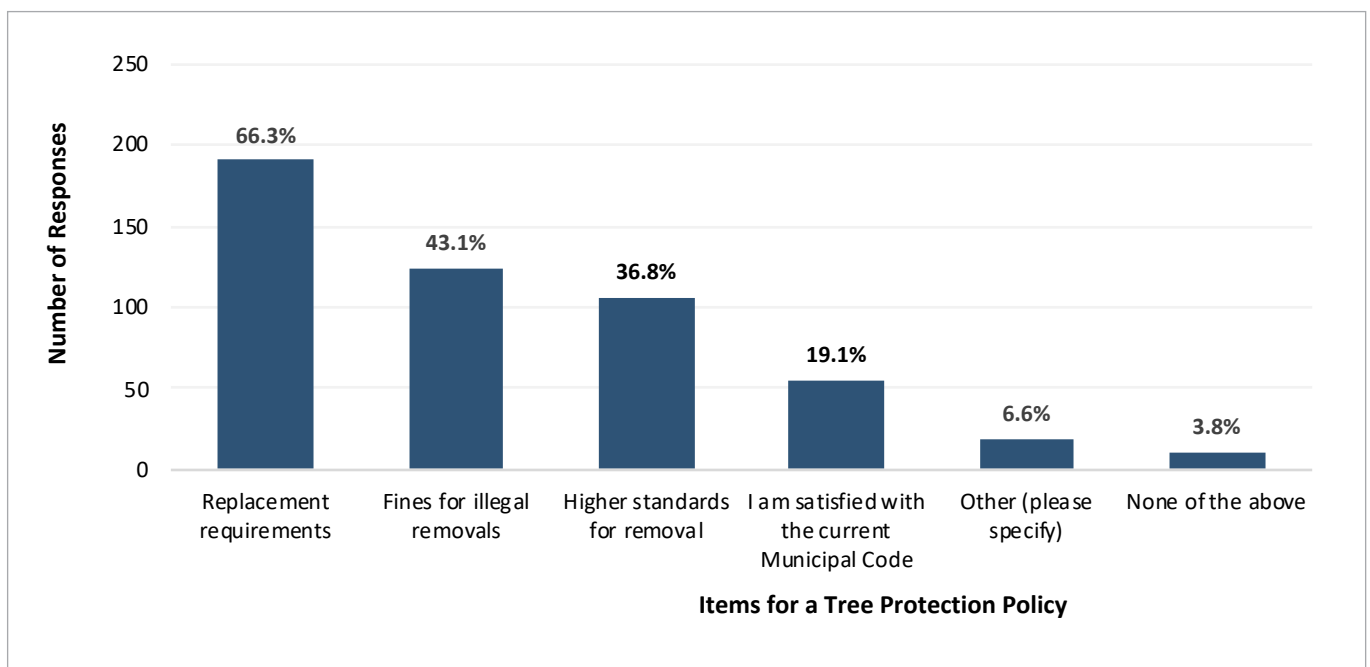


FIGURE 5: Items to Include in a Tree Protection Policy



Plan Goals and Actions

Based upon a review of the current Trees Division program, resources, and collaborative input from the community and other stakeholders, the UFMP identifies 10 goals and 3 existing policies that support and represent what Garden Grove residents, stakeholders, and staff want for the future of the urban forest. These goals, and the strategies that support them, are intended to optimize the management of the city's community forest in an efficient, cost-effective, sustainable, and safe manner. The UFMP identifies 4 major areas of focus:

1. Comprehensive and efficient tree care operations
2. Practices and policies related to the community tree resource
3. Environmental, social, and economic benefits of trees
4. Community outreach and collaboration

FOCUS AREA: COMPREHENSIVE AND EFFICIENT TREE CARE OPERATIONS

This focus area aims to increase cost-efficiency for managing the resource through efficient record keeping and planning. The urban forest provides numerous benefits to the community. Although it might be tempting to plant as many trees as possible, it is important to grow and enhance the urban forest in a sustainable manner so that trees are planted, but also maintained throughout their lifetimes.

Goal 1: Plan for trees before planting.

When proper consideration is given to planting trees, future removals are potentially avoided. Selecting the right tree for the right place increases the ability for a tree to reach maturity and ensure that it has ample space for canopy and root growth.

Objectives for this goal include selecting an appropriate tree species for the planting site and revising design and construction standards for planting sites.

Goal 2: Support tree health and good structure.

When trees are well-maintained throughout their lifetimes, the risks they pose to the public are reduced. Promoting tree health and good structure decreases the chances of having hazardous trees in the community and helps prevent tree conflicts with utilities.

Objectives for this goal involve providing proactive management of the community tree resource that aligns with industry standards.

Goal 3: Repurpose woody materials resulting from tree removals.

Using woody materials that result from tree removals reduces waste and allows managers to recover value from felled community trees. Repurposing woody material into wood products and mulch can provide revenue and prevent the need to purchase wood mulch used to care for the urban forest.

Objectives for this goal include developing a wood utilization program.



Existing Policy 1: Maintain a tree inventory that can be used to manage the community tree resource.

Striving to obtain information on all existing trees and vacant sites present in the urban forest can enhance staff's ability to determine and prioritize tree care and tree planting. As a result, maintenance can be done in a more efficient manner.

Objectives for this goal focus on optimizing the use of the community tree inventory for use in pruning/maintenance cycles and tree planting/replacement plans.

FOCUS AREA: PRACTICES AND POLICIES RELATED TO THE COMMUNITY TREE RESOURCE

This focus area aims to optimize tree-related city programming to allow managers to meet and exceed community expectations. Best management practices for tree maintenance should transcend all Departments as these standards promote tree health and safety. Because tree maintenance can be dangerous, the city is always looking for opportunities to improve the safety of staff responsible for caring for trees.

Goal 4: Increase uniformity between City policies, documents, and departments.

Inconsistencies across city policies, documents, and departments can create confusion between departments and the community. Policy uniformity promotes strong and efficient policy that aligns with community expectations.

Objectives for this goal include furthering communication among city departments and unifying guiding documents.

Goal 5: Recognize trees as green infrastructure.

Trees are essential infrastructure that need to be planned for during design, similar to other utilities. Considering trees as a green infrastructure aims to ensure their longevity through the planning and implementation of comprehensive designs.

Objectives for this goal include planning for the right tree in the right place and creating policies to limit conflicts between trees and grey infrastructure.

Existing Policy 2: Encourage a culture of safety.

When all city staff share core values and behaviors that promote safety related to trees, everyone, including the community, is safer.

Objectives for this goal are to continue prioritizing safety.



FOCUS AREA: ENVIRONMENTAL, SOCIAL, AND ECONOMIC BENEFITS OF TREES

This focus area aims to preserve and enhance the existing tree canopy thereby maintaining the numerous benefits provided by the urban forest. The environmental, social, economic, and public health benefits provided by trees and canopy are directly related to the distribution of leaf surface and tree canopy. As trees mature, the benefits that are provided to the community increase.

Goal 6: Promote tree preservation and protection.

It is important to promote the protection of community trees. In addition to updating the current tree protections, the Municipal Code should be periodically reviewed and revised to refine and identify requirements to support the urban forest and canopy cover goals.

Objectives for this goal focus on amending and clarifying language in existing Municipal Code and optimization of management practices.

Goal 7: Enhance community aesthetics.

With close proximity to nearby tourist attractions, Garden Grove has a tremendous economic opportunity. Research has shown that shopping areas with trees and shade encourage greater economic activity. The urban forest provides an opportunity for Garden Grove to enhance community aesthetics and economic opportunities.

Objectives for this goal include strategically growing the tree canopy on public and private property to support the community's character and beautify the city.

Goal 8: Expand and diversify tree canopy to increase the environmental benefits received by the entire community.

The Southern California Coast climate zone has 13.9% canopy cover and Garden Grove's current canopy cover is 7.9%. Through a community survey and community meetings, community members supported increasing canopy cover with a goal of 15% canopy cover.

Objectives for this goal include increasing the canopy cover in Garden Grove with a diverse palate of species.

Existing Policy 3: Encourage the establishment of trees through efficient and sustainable irrigation solutions.

Water is critical for tree health. All trees, especially newly planted trees, need some level of water to thrive. Identifying efficient and cost-effective means for watering trees makes the urban forest more sustainable.

Objectives for this goal are to ensure the urban forest receives adequate water in the most sustainable way.



FOCUS AREA: COMMUNITY OUTREACH AND COLLABORATION

This focus area aims to foster a greater connection between the urban forest and the community. The urban forest is more likely to be preserved, maintained, and promoted by an engaged community that understands the benefits it provides.

Goal 9: Celebrate the importance of urban trees.

Community designations and events surrounding the urban forest build awareness and excitement that ultimately encourages community members to help build upon existing canopy.

Objectives for this goal focus on re-establishing the Tree City USA designation.

Goal 10: Support community engagement and stewardship of the urban forest.

Although the city is not directly responsible for the care of trees on private property, all trees are an important component of the urban forest. Education and outreach to encourage best management practices for trees on private property should be done to support the wellness and benefits of the urban forest. Building partnerships with community organizations gives the urban forest a voice, greater capacity to care for trees, and a broader audience. Partners can help plant, maintain, and advocate for the urban forest.

Objectives for this goal include developing materials for urban forest outreach and education and providing opportunities for the community to become involved.

“IF A TREE DIES, PLANT
ANOTHER IN ITS PLACE.”

CAROLUS LINNAEUS



• How do we get there?

The goals and existing policies and actions proposed by the Urban Forest Management Plan (UFMP) are organized by focus areas:

1. Comprehensive and efficient tree care operations
2. Practices and policies related to the community tree resource
3. Environmental, social, and economic benefits of trees
4. Community outreach and collaboration

Each area of focus is supported by measurable goals and specific actions that are intended to guide Garden Grove's urban forest programming over the next 40 years, providing the foundation for annual work plans and budget forecasts. Many goals and actions support more than one focus area.

For each action, the UFMP identifies a priority, a suggested timeframe for accomplishing the action, an estimated cost range, and potential partners. Priority is identified as:

- High: An action that is critical to protecting existing community assets, reducing/managing risk, or requires minimal resources to accomplish
- Medium: An action that further aligns programming and resource improvements that have been identified as desirable by the community, partners, and/or urban forest managers, but that may require additional investment and financial resources over and above existing levels
- Low: An action that is visionary, represents an increase in current service levels, or requires significant investment

The estimated cost is categorized in the following ranges:

- \$ less than \$25,000
- \$\$ \$25,000 - \$100,000
- \$\$\$ more than \$100,000

The UFMP is intended to be a dynamic tool that can and should be adjusted in response to accomplishments, new information and changes in community expectations, and available resources. In addition to serving as a day-to-day guide for planning and policy making, the UFMP should be reviewed regularly for progress and to ensure that the actions and sub actions are integrated into the annual work plan.



With appropriate care and planning, the urban forest is an asset that has the potential to increase in value over time. As young trees mature and their leaf surface and canopies grow, so too will the overall benefits and value from the community's urban forest. The objectives and strategies of the UFMP are intended to support this process in an appropriate manner that encourages the sustainable stewardship of community trees with consideration for safety, cost efficiency, and community values. The UFMP includes strategies for measuring the success of the UFMP over time.



“AS OF NOVEMBER 2019, THE
COMMUNITY TREE INVENTORY
INCLUDES 17,210 TREES AND
234 DIFFERENT SPECIES OR
VARIETIES.”

URBAN FOREST FACT



Focus	Goals and Existing Policies	Objectives
Comprehensive and efficient tree care operations	<p>Goal 1: Plan for trees before planting.</p> <p>Goal 2: Support tree health and good structure.</p> <p>Goal 3: Repurpose woody materials wherever possible.</p> <p>Existing Policy 1: Understand the structure and composition of Garden Grove's community tree resource.</p>	<ul style="list-style-type: none"> • Set emphasis on the Right Tree in the Right Place. • Develop planter improvement and design strategies for mitigating conflicts and increasing soil volume. • Ensure community trees are maintained according to industry standards to promote tree health, longevity, and public safety. • Establish a risk management policy. • Employ multiple tools and strategies to prevent and/or manage pests and pathogens. • Identify a wood reutilization policy. • Maintain a tree inventory that can be used to manage the community tree resource.
Practices and policies related to the community tree resource	<p>Goal 4: Increase uniformity between City policies, documents, and departments.</p> <p>Goal 5: Recognize trees as essential green infrastructure.</p> <p>Existing Policy 2: Promote a culture of safety.</p>	<ul style="list-style-type: none"> • Communicate and coordinate with other city departments. • Unify guiding documents to transcend departmental changes, promote consistency, and shared vision. • Plan for trees to limit future grey infrastructure conflicts. • Create and enforce policies that protect trees. • Implement policies and procedures that make that tree work as safe as possible. • Encourage employees to engage in professional development.
Environmental, social, and economic benefits of trees	<p>Goal 6: Promote tree preservation and protection.</p> <p>Goal 7: Enhance community aesthetics.</p> <p>Goal 8: Expand and diversify tree canopy to increase the environmental benefits received by the community.</p> <p>Existing Policy 3: Encourage the establishment of trees through efficient and sustainable irrigation solutions.</p>	<ul style="list-style-type: none"> • Revise and amend Municipal Code to promote the protection of community trees. • Monitor contractor services. • Optimize the Trees Division to address maintenance needs. • Monitor for pests and pathogens. • Encourage the expansion of the urban forest through tree plantings on public property. • Encourage the expansion of the urban forest through tree plantings on private property. • Reach 15% tree canopy cover by 2040. • Promote species diversity to build a more sustainable community tree resource. • Promote the efficient use of tree planting funds. • Support established and mature trees. • Establish a more water-wise urban forest. • Ensure trees receive adequate water.
Community outreach and collaboration	<p>Goal 9: Celebrate the importance of urban trees.</p> <p>Goal 10: Support community engagement and stewardship of the urban forest.</p>	<ul style="list-style-type: none"> • Re-establish the Tree City USA designation. • Promote the Urban Forest Management Plan. • Update the website for the Trees & Flood Control Section on the city Website. • Encourage community involvement and stewardship for the urban forest. • Encourage the expansion of the urban forest through tree plantings on both public and private property. • Support the formation of a community-led tree advocacy group.





Focus Area: Comprehensive and efficient tree care operations

GOAL 1: PLAN FOR TREES BEFORE PLANTING.

PERFORMANCE MEASURE:

Greater health and longevity of individual trees, as measured through condition and reduced mortality/tree removals and maintenance.

RATIONALE:

Trees take a long time to grow and are a long-term investment. If a tree is planted in a space that is too small or too large or is not well-suited for the local climate and soil conditions, the potential benefits that the tree could have provided to the community are reduced.

RISK:

Planting maladapted species or planting trees in inadequate spaces (e.g., space or soil volume limitations, compacted or poor-quality soils) can result in premature death.

BENEFIT:

Fewer removal of trees and maximized community benefit.

I. OBJECTIVE:

Set emphasis on the right tree in the right place.

ACTIONS:

- Revise/expand the city-approved tree planting list to include:
 - a. Species that can thrive in new developments.
 - i. Species that tolerate heavy clay soils.
 - ii. Species that tolerate irrigation challenges.
 - b. Native and well-adapted tree species.
 - i. Species that mitigate flooding issues.
 - ii. Species with minimal leaf drop and litter creation.
 - iii. Species and varieties that are pest and disease resistant and avoid planting species with similar vulnerabilities to existing trees.
 - c. Define sites the trees are most suitable for:
 - i. Rights-of-way
 - ii. Parks/lawns
 - iii. Near/under utilities
 - iv. Parking lots
 - v. Flood zones
- Publish the city-approved tree planting list on the city website to promote the planting of appropriate tree species on private property.
- Update the tree planting list every five years to add new varieties and species of nursery stock and to discontinue the use of species susceptible to invasive pests and those that are currently over-represented.
- Reduce hardscape and utility conflicts.
 - a. Provide recommendations for small stature tree species that can be planted under utility lines to prevent future conflicts.

- b. Avoid planting species of trees that have historically resulted in hardscape damage or whose debris create a slipping hazard.
- c. Coordinate with the Sanitary District to avoid and/or to identify solutions for conflicts with sewer laterals and mains. (e.g., root pruning, tree removal, etc.)
- Match tree species to soil and water conditions.
- Match tree species to planter size and intended use.
- Consider mature crown spread.
 - a. Optimize shade and environmental benefits by planting large stature trees where feasible.
- Consider the annual cost of maintenance prior to planting a tree.

COST: \$

TIME FRAME: Ongoing



II. OBJECTIVE:

Develop planter improvement and design strategies for mitigating conflicts and increasing soil volume.

ACTIONS:

- Identify planting sites that require improvements and create a plan for planting site improvements.
 - a. Prioritize expanding vacant sites for new tree plantings.
 - b. Identify existing significant trees, or trees in good condition, that are in tree wells that will not accommodate the mature size of the tree species. Consider expansion of the tree well to accommodate the growing tree and root zone.
 - c. Modify planters to increase soil volume during maintenance projects.
 - d. Incorporate the use of mulch to improve water retention and soil quality over time.
 - e. Continue to meet American's with Disabilities Act (ADA) requirements and state code.
- Detour walkways around trees, ramping over roots, and grinding down displaced sidewalk panels to reduce tripping hazards without causing undue harm to critical roots.
- Implement alternative planter designs when feasible. (See Appendix G.)
- Explore alternative sidewalk designs to allow space and air under the concrete for trees and compliance with ADA and avoid tree removal (See Appendix G), such as:
 - a. Crushed granite
 - b. Gravel sub-base and other structural soils
 - c. Other structural cells (Strata Cells or Silva Cells)
 - d. Interlocking concrete paver products
 - e. Flexipave, a system similar to rubber sidewalks
 - f. Alternative tree grate structures
 - g. Polygrate, a recycled plastic form of tree grate

COST: \$-\$\$

TIME FRAME: 1-5 Years

GOAL 2: SUPPORT TREE HEALTH AND GOOD STRUCTURE.

PERFORMANCE MEASURE:

Reduction in removals and claims against the city.

RATIONALE:

When the minimum level of care is met for all community trees, the potential for all the trees to reach maturity increase and the benefits provided by those trees also increases as trees mature.

RISK:

The community tree resource and the greater urban forest could suffer significant losses to tree canopy cover as a result of removals or from pest infestations due to lack of maintenance.

BENEFIT:

Regular maintenance and inspection of the community tree resource promotes better tree health and structure, which reduces the number of removals, branch and tree failures as a result of poor structure, and increases the benefits provided to the community.

I. OBJECTIVE:

Ensure community trees are maintained according to industry standards to promote tree health, longevity, and public safety.

ACTIONS:

- Continue to coordinate with Parks and Facilities.
 - a. Formalize and document training on risk management.
 - b. Avoid damage to tree trunks and major limbs.
 - i. Use mulch rings where appropriate to promote tree health and protection.
 - c. Review designs for installation of trees in parks.
- Educate community members about their responsibilities for the care of public trees.
- *Update Standard Operating Procedures for Public Works Department Staff – Trimming of City Trees* to ensure compliance with current ANSI and BMPs.
- Update Specifications for Street Tree Maintenance to ensure compliance with current ANSI and BMPs.
- Consider requiring professional licensing for tree care companies operating within city limits.
- Maintain trees after planting.
 - a. Mulch around trees.
 - b. Remove stakes and ties after initial establishment.
 - c. Avoid mowing or string trimming within two feet of trunks of trees to avoid damage to the root collar and cambium.
- Follow integrated pest management practices.

COST: \$

TIME FRAME: Ongoing

II. OBJECTIVE:

Establish a risk management policy.

ACTIONS:

- Work with Risk Management to set risk tolerance thresholds for trees where the risk cannot be mitigated.
 - a. Consider having a Certified Arborist with a Tree Risk Assessment Qualified (TRAQ) certification assess risk and recommend mitigation measures.
- Coordinate inspection of all trees with pruning cycles.
 - a. Update inventory accordingly.
- Train staff on how to complete limited visual assessments.
 - a. Familiarize staff on tree defects and conditions that affect likelihood of failure.
 - b. Establish a reporting protocol for staff to report recognized and observed hazards.
- Implement mitigation options based on level of risk and conditions present.
 - a. Removals should be prioritized and performed as soon as possible.
 - b. Consider moving targets (e.g., tables, benches, etc.) to reduce risk.
 - c. Consider diverting use around trees identified as at-risk.
 - d. Install structural support systems where recommended.
 - e. Retain and monitor trees identified for moderate- to low-risk.

COST: \$

TIME FRAME: 1–5 Years

III. OBJECTIVE:

Employ multiple tools and strategies to prevent and/or manage pests and pathogens.

ACTIONS:

- Promote species diversity throughout the community.
- Inspect trees for pests and pathogens as grid pruning and other maintenance occurs.
 - a. Locate diagnostic facilities that can identify unknown pests or pathogens.
- Continue to participate in training on existing and potential pests and pathogens.
- Continue to obtain current information on emergent and existing pests and pathogens.
- Identify procedures and protocols to be followed in the case of an introduced pest or pathogen.
 - a. Use management practices developed for the targeted pest/pathogen.
- Prevent the movement of felled tree materials that may be harboring pests or pathogens.
- Distribute information on polyphagous shot hole borer and other pests through the Public Works website.
 - a. Flexipave, a system similar to rubber sidewalks.
 - b. Alternative tree grate structures.
 - c. Polygrate, a recycled plastic form of tree grate.

COST: \$

TIME FRAME: Ongoing

GOAL 3: REPURPOSE WOODY MATERIALS WHENEVER POSSIBLE.

PERFORMANCE MEASURE:

Reduced amount of woody material entering the waste management center.

RATIONALE:

Tree removals result in woody materials that are composted at the city waste management center. Alternatively, woody materials can be repurposed into wood products and wood mulch.

RISK:

Tree removals generate a substantial amount of woody material that could be treated as waste.

BENEFIT:

Repurposing felled trees is one way to recover the costs of removal and divert woody material from the landfill.



OBJECTIVE:

Identify a wood reutilization policy.

ACTIONS:

- Identify wood utilization needs.
- Continue to partner with contracting arborists to recycle/reuse wood from large removals.
- Expand partnerships.
- Explore generating wood chips from tree removals.
 - a. Use wood chips in tree plantings and park maintenance projects.
 - b. Provide the community with an opportunity to pick up wood chips for landscaping needs.
- Plan for wood waste material storage.
 - a. Determine the capacity for wood mulch storage in the Public Works yard.
 - b. Explore partnerships for wood mulch storage.

COST: \$

TIME FRAME: 5–10 Years

EXISTING POLICY 1: UNDERSTAND THE STRUCTURE AND COMPOSITION OF GARDEN GROVE'S COMMUNITY TREE RESOURCE.

PERFORMANCE MEASURE:

Known duration between maintenance activities for every tree in the inventory.

RATIONALE:

Trees are an asset valued by the community. A high level of standard coupled with an up to date inventory allows staff to identify and track maintenance needs and provide excellent customer service. Additionally, an inventory can be used to quantify the ecosystem services provided by public trees.

RISK:

A lack of understanding of the age, structure, benefits, and maintenance needs of public trees makes the community tree resource vulnerable to loss of canopy cover. It also creates challenges in responding to pests and could increase the costs of managing such threats.

BENEFIT:

A better understanding of the public tree resource enables Trees Division staff to prioritize tasks, improve efficiency, and better plan for and manage pests. Ultimately, trees in the urban forest and the community are better served.

OBJECTIVE:

Maintain a tree inventory that can be used to manage the community tree resource.

ACTIONS:

- Update inventory of all trees in parks, open space, trails, City-owned facilities, and public rights-of-way.
 - a. Consider redistributing funds to proactive maintenance rather than retroactive.
 - b. Determine which vacant sites are potential tree planting sites to assist in planning for future plantings.
- Regularly update the inventory as tree work occurs.
 - a. Include updates on tree removals as they occur.
- Obtain information on tree aspect and distance from buildings and update the benefit investment analysis to better understand the benefits provided by the public tree resource.
 - a. Consider the use of a tree inventory management software.

COST: \$

TIME FRAME: Ongoing

Focus Area: Practices and policies related to the community tree resource

GOAL 4: INCREASE UNIFORMITY BETWEEN CITY POLICIES, DOCUMENTS, AND DEPARTMENTS.

PERFORMANCE MEASURE:

Number of policies, documents, and departments that cross reference the UFMP and BMPs for tree care.

RATIONALE:

Having a uniform policy reduces confusion between departments and community members and transcends departmental changes.

RISK:

When policies have inconsistencies, setting a high standard of care is difficult.

BENEFIT:

Uniformity promotes a strong and efficient policy that aligns with community expectations.

I. OBJECTIVE:

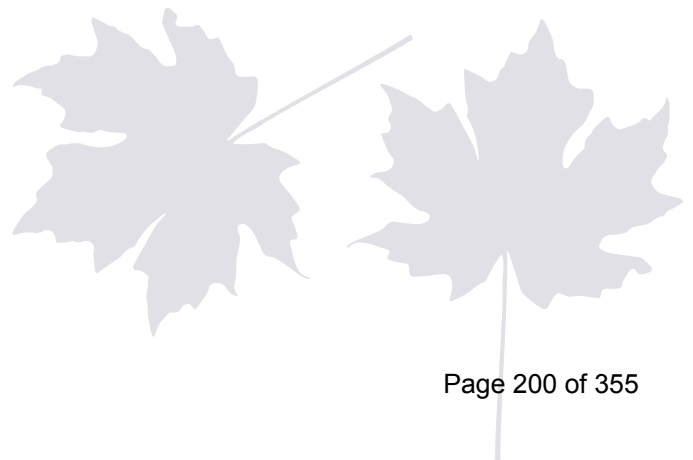
Communicate and coordinate with other city departments.

ACTIONS:

- Share the UFMP among city departments following completion to increase transparency by communicating best management practices for tree care to alleviate current and future conflicts with hardscape and other city infrastructure.
- Communicate internally and facilitate discussions with Public Works to develop policies for tree-related infrastructure damage.
- Participate in cross-training activities to create understanding of other departmental roles.
- Increase communication between city departments to increase enforcement of tree protection in the public right of way and new developments.
- Explore new tree protection policies enforced by the city.

COST: \$

TIME FRAME: Ongoing



II. OBJECTIVE:

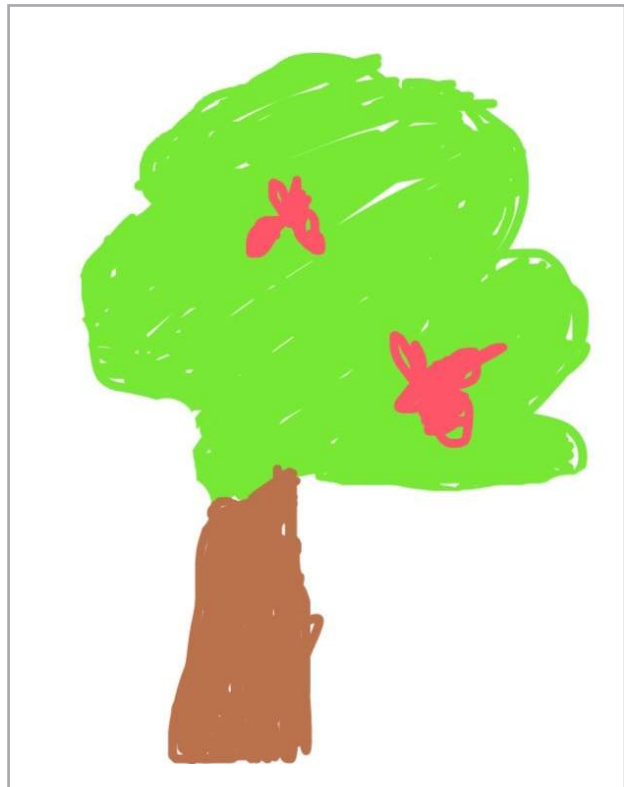
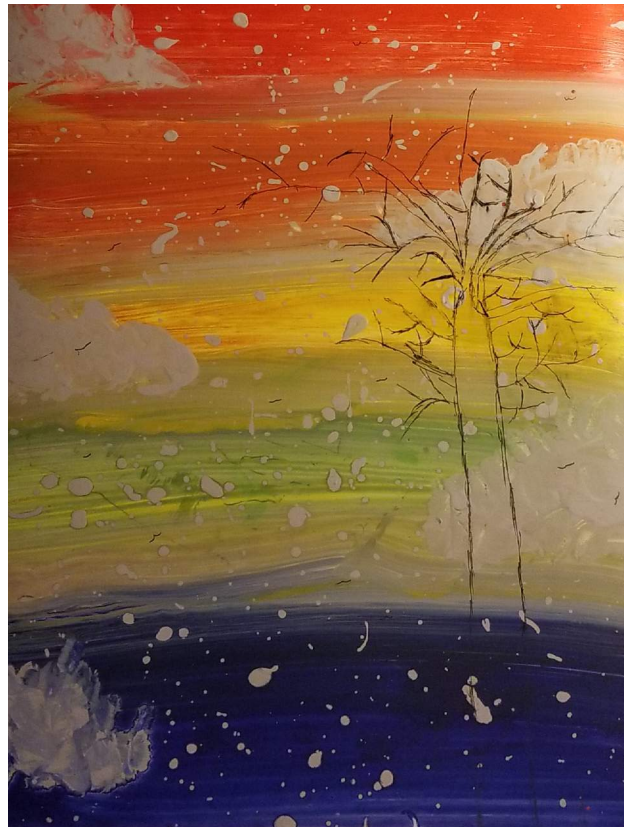
Unify guiding documents to transcend departmental changes, promote consistency, and shared vision.

ACTIONS:

- Ensure that UFMP goals are considered in all overarching planning and visionary documents as revisions and updates occur.
- General Plan as it is revised.
- Promote trees as an essential tool for City initiatives to decrease heat island effects, capture and reduce stormwater, increase the lifespan of hardscape, improve air quality, buffer the urban landscape, revitalize the aesthetics, and improve public health.
 - a. Incorporate trees into stormwater management systems, including in bioswales to improve stormwater capture.
 - b. Retrofit existing stormwater management systems with trees wherever possible.

COST: \$

TIME FRAME: Ongoing



GOAL 5: RECOGNIZE TREES AS GREEN INFRASTRUCTURE.

PERFORMANCE MEASURE:

Reduced number of removals and conflicts reported between trees and other utilities.

RATIONALE:

Designating trees as green infrastructure communicates that they are a key element in cityscapes, as is expected for other infrastructure.

RISK:

Trees and other utility conflicts may result in undesirable pruning or tree removals that could have been avoided through alternative design solutions and repairs.

BENEFIT:

Planning for trees limits the need to mitigate conflicts between trees and other utilities and promotes tree longevity.

I. OBJECTIVE:

Plan for trees to limit future grey infrastructure conflicts.

ACTIONS:

- As the General Plan or other long-term planning documents are revised consider impacts on trees.
- Consider amending clearance and visibility standards to allow for more planting and avoid excessive pruning of young or newly established trees.
- Use root barriers to reduce root and sidewalk conflicts.
- Use best management practices for root pruning to decrease the likelihood of recurrence in tree-sidewalk conflicts.
- Develop tree removal policies around conflicts with sewer and water lines.
- Develop policies to move sewer mains from the rights-of-way to the street during redevelopment projects.
- Move water lines from planter strips to underneath the street when possible during street reconstruction and improvement projects.
- Coordinate with the Water Services Division during tree planting and planning projects to avoid conflict with water laterals and mains.

COST: \$

TIME FRAME: 10 Years



II. OBJECTIVE:

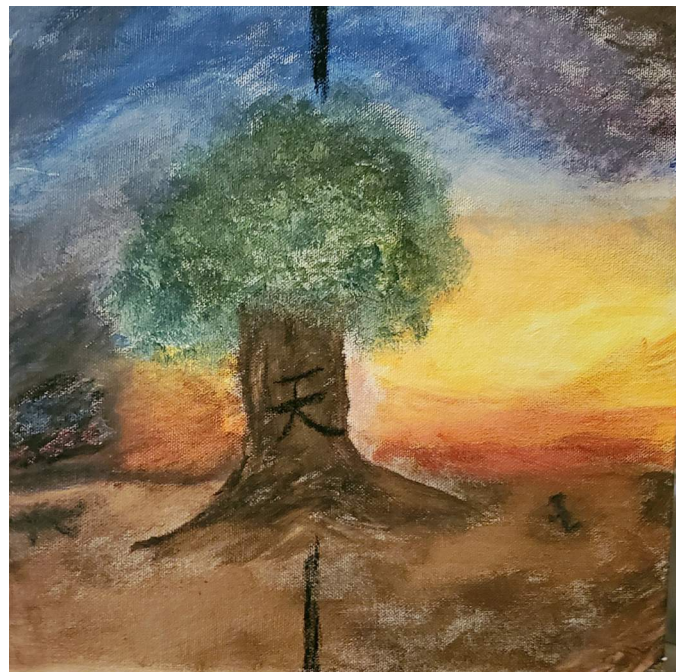
Create and enforce policies that protect trees.

ACTIONS:

- Create a policy to move water mains from the rights-of-way into the street during significant street reconstruction projects.
- Require developers to maintain trees to promote the desired intent. (e.g., shade, aesthetics, etc.)
- Enforce the replacement of trees, in accordance with design code, that have been devalued and cannot be rehabilitated or have died.
- Include requirements on permit applications for planting, removal, trimming or cutting trees.
- Update the cost of the permit to better reflect the cost of tree planting and removal.
- Consider a general fee for tree removal applications.
- Enforce protections of trees in place.
- Develop methods to decrease vandalism to trees.
 - a. Provide bike racks.
 - b. Implement signage to indicate bikes cannot be locked to trees.

COST: \$

TIME FRAME: 1–5 Years



EXISTING POLICY 2: ENCOURAGE A CULTURE OF SAFETY.

PERFORMANCE MEASURE:

Reduction in accidents and claims against the city.

RATIONALE:

Promoting a culture of safety results in reduced workplace accidents, less down-time, and greater productivity. With every staff member engaging in safe behaviors, everyone (even the community) is safer.

RISK:

Tree work is dangerous, this risk is exacerbated when unsafe practices are used, or there is a lack of understanding of safety policies.

BENEFIT:

Fewer accidents and claims against the city, resulting from improved public safety.

I. OBJECTIVE:

Implement policies and procedures that make that tree work as safe as possible.

ACTIONS:

- Provide updated materials in safety trainings.
- Consider the city becoming a member of the Tree Care Industry Association (TCIA).
- Provide training for staff to help recognize/report hazards, along with basic pruning/proper maintenance.
- Review City of Garden Grove Emergency Operations Plan for tree work safety, including defining responsibilities, standardizing debris management, and use of contractor services.

COST: \$

TIME FRAME: 1–5 Years

II. OBJECTIVE:

Encourage employees to engage in professional development.

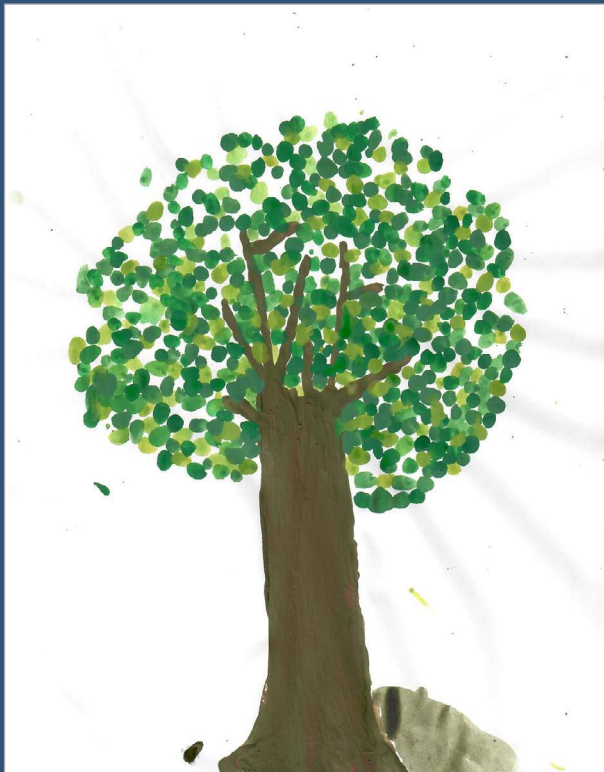
ACTIONS:

- Promote, support and incentivize employee ISA Certified Arborist credentials and other professional development opportunities.

COST: \$

TIME FRAME: Ongoing





Focus Area: Environmental, social, and economic benefits of trees

GOAL 6: PROMOTE TREE PRESERVATION AND PROTECTION.

PERFORMANCE MEASURE:

Reduction in removals and no-net loss in tree canopy cover.

RATIONALE:

Trees take a long time to grow. Preserving and protecting existing trees ensures that the stream of benefits provided by community trees is not lost or disrupted and has the opportunity to increase the stream of benefits.

RISK:

Loss of tree canopy cover and associated environmental benefits.

BENEFIT:

Preservation of community trees ensures the environmental benefits are sustained and trees that have been preserved and protected have the potential to provide even more benefits to the community over the course of their lifetimes.

I. OBJECTIVE:

Revise and amend Municipal Code to promote the protection of community trees.

ACTIONS:

- Establish the following criteria that must be met in order for the removal and replacement of a City tree as requested by a resident:
 - a. City tree root damage/intrusion into a sewer lateral that is verified in writing by a licensed plumber.
 - b. Excavation of the sewer lateral demonstrates damage/intrusion by city tree roots, and cannot be resolved by root pruning, the Public Works tree inspector shall determine if the tree will be removed.
 - c. An unhealthy, poor structured and/or severely damaged tree, as determined by the Public Works tree inspector.
 - d. Require the replacement of a tree that has

been removed.

- e. When a site is not suitable for a replacement tree, require a mitigation fee to fund the planting of tree elsewhere in the community.
- Amend Municipal Code to formalize the Council Policy No. 700-05 on Street Tree Removal.
- Amend the following in the current policy:
 - a. Define “adjacent property owner.”
 - b. Define “mitigation” to include tree replacement or payment of fees.
- Update injury of a tree to include further actions. (i.e., nails, wires, chain, rope, etc.)
- Include considerations for new trees in project developments.
- Include considerations for existing trees during new project developments.
 - a. Review design plans to preserve healthy, large, and established trees where feasible.
 - b. Provide a final inspection for tree plantings in developments to review location/species and record/approve any changes from the plan.
 - c. Require the use of tree protection zones (TPZ) when trees are recommended for preservation.
 - d. Include maintenance requirements for properties/developments that:
 - i. Require trees be maintained to promote the desired intent. (e.g., shade, aesthetics, etc.)
 - ii. Requires replacement of trees that are devalued (and cannot be rehabilitated) and/or are dead.
- Consider protections for significant trees. (e.g., large size, unique species, historical or cultural significance, large native trees)
- Implement enforcements
 - a. When street trees maintained by developers are unduly removed.
 - i. Add requirements for tree retention.
 - b. When trees on private property are not maintained to City standards.

- i. Provide guidelines for expected maintenance and upkeep of right-of-way trees.
 - ii. Determine penalties for ordinance violations.
- Add Clarification to the Design Code
 - a. Incorporate review and input from the Trees and Streets Division into the plan development processes.
 - b. Refer to a species recommendation list
 - c. Update visibility (and tree pruning/clearance) standards.
 - d. Include standards and specifications for planter site construction, planting/installation, and ongoing maintenance in accordance with ANSI Standards and ISA Best Management Practices in development agreements.
- Coordinate with the Engineering and Planning Departments to review site plans and make recommendations to avoid planting trees where infrastructure conflicts may arise.

COST: \$

TIME FRAME: 1–5 Years

II. OBJECTIVE:

Monitor contractor services.

ACTIONS:

- At a minimum, schedule 5- to 7-year pruning cycles.
 - a. Consider the use of cycle busters.
 - b. Avoid pruning trees that do not require maintenance.
 - c. Consider the use of structural/training pruning for young trees to promote good structure.
- Evaluate agreements to ensure compliance with ANSI A300 and Z133.
- Inspect and update inventory data.

COST: \$

TIME FRAME: Ongoing

III. OBJECTIVE:

Optimize the Trees Division's ability to address maintenance needs.

ACTIONS:

- Evaluate the optimal level of resources needed to achieve desired levels of service
 - a. Staffing
 - i. Consider reinstating the foreman position
 - ii. Identify positions for which ISA Certification is a requirement
 - b. Funding
 - i. Explore alternative long- and short-term funding opportunities
 - ii. Explore grants (e.g., CalFire, California Natural Resources Agency)

COST: \$-\$\$ **TIME FRAME:** Ongoing

IV. OBJECTIVE:

Monitor for pests and pathogens.

ACTIONS:

- Visually inspect trees for pests and pathogens.
- Identify pests and pathogens before applying treatments.
- Continue to participate in training on existing and potential pests and pathogens.

COST: \$

TIME FRAME: Ongoing

GOAL 7: ENHANCE COMMUNITY AESTHETICS.

PERFORMANCE MEASURE:

Enhanced aesthetics through urban tree plantings on public and private property⁴.

RATIONALE:

Aesthetically pleasing environments, with sufficient canopy cover, are valued and result in increased activity, tourism, and instill a sense of pride.

RISK:

Removals or a lack of planted trees, both of which could have been avoided through alternative design.

BENEFIT:

Aesthetically pleasing atmospheres foster livelier and more engaged communities.



I. OBJECTIVE:

Encourage the expansion of the urban forest through tree plantings on public property.

ACTIONS:

- Consider the annual cost of maintenance of trees prior to planting.
- Enhance transitions between Garden Grove and the Anaheim resort area.
- Identify and adapt plantings to the kind of tree valued by different cultural neighborhoods within the city.
- Use street tree plantings to align with the theme of the neighborhood or district area (per *Garden Grove General Plan*).
- Use street tree plantings to support the *Garden Grove Active Streets Master Plan and Active Downtown Plan*.
 - a. Provide a network of green infrastructure.
 - b. Foster pedestrian friendly environments.
- Use trees in landscaping to decrease noise levels along corridors (per *Garden Grove General Plan*).
- Plant large stature shade trees where space allows, especially in parks.
- Work to improve the park system through increased tree plantings (per *Garden Grove Parks, Recreation, & Facilities Master Plan*).
- Explore the use of median plantings.
 - a. Prioritize median plantings with existing irrigation infrastructure.
 - b. Consider median plantings in new developments or areas undergoing significant reconstruction.
- Use engineering projects such as curb extensions and bulb-outs to increase the amount of space available for street trees (per *Active Downtown Garden Grove*).

COST: \$

TIME FRAME: Ongoing

⁴ Aesthetics can be measured through community values, perceived safety, or activity and tourism levels (Active Living Research, 2015; McMahon, 2020).

II. OBJECTIVE:

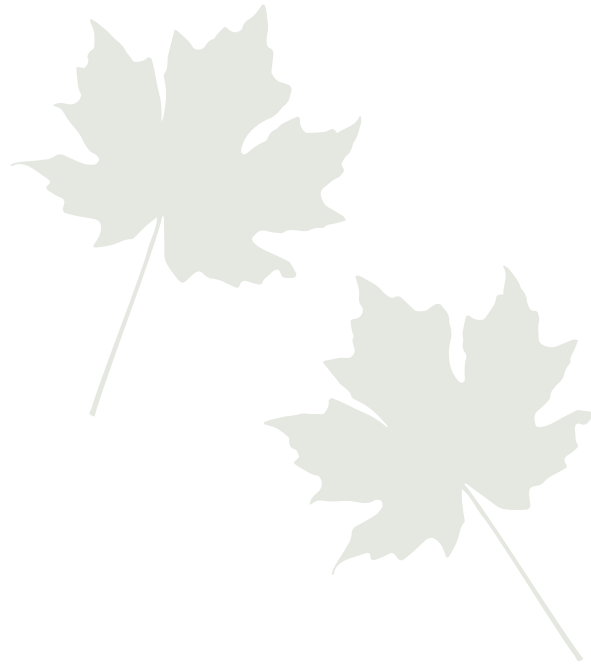
Encourage the expansion of the urban forest through tree plantings on private property.

ACTIONS:

- Promote tree planting on private property.
 - a. Provide property owners the recommended species list to encourage the planting of appropriate species.
- Encourage the use of pervious surfaces on private property to allow more water to percolate and gas/air exchange .
- Collaborate with private schools and the School District to improve forestry practices on school property.

COST: \$

TIME FRAME: Ongoing



**“ALONE WITH MYSELF THE
TREES BEND TO CARESS ME
THE SHADE HUGS MY HEART.”**

CANDY POLGAR



GOAL 8: EXPAND AND DIVERSIFY TREE CANOPY TO INCREASE THE ENVIRONMENTAL BENEFITS RECEIVED BY THE COMMUNITY.

PERFORMANCE MEASURE:

Increased tree canopy and promote a diverse composition of tree species.

RATIONALE:

The benefits that the urban forest provides is directly related to the amount of tree canopy cover and leaf surface area.

RISK:

Reduction or stagnation of tree canopy cover may result in fewer benefits.

BENEFIT:

Expanded tree canopy increases the benefits provided by trees, and greater species diversity makes the urban forest more resilient.

I. OBJECTIVE:

Reach 15% tree canopy cover by 2040.

ACTIONS:

- Conduct a Planting Priority Analysis to identify areas which could support additional tree plantings on both public and private property.
 - a. Develop a planting plan based on the areas identified in the Planting Priority Analysis as high and very high priority.
- Promote equitable distribution of canopy throughout the community.
 - a. Evaluate distribution of tree canopy by socioeconomics, including median income, race, and education.
 - b. Prioritize tree planting in areas with lower than average canopy cover (as identified by Tree Canopy Assessment).
 - c. Explore opportunities to provide free or low-cost trees for planting on private property in areas of need.
- Use strategic tree plantings to reduce energy consumption and mitigate the heat island effect (per *Garden Grove General Plan and Parks, Recreation, & Facilities Master Plan*).
- Consider incentivizing tree plantings on private property.

COST: \$

TIME FRAME: Ongoing

II. OBJECTIVE:

Promote species diversity to build a more sustainable community tree resource.

ACTIONS:

- Revise tree recommendation list to include a broader range of species diversity.
- Evaluate the inventory for high-performing trees with adequate age distribution for use in future plantings.
- Diversify plantings throughout Garden Grove to avoid monocultures and encourage greater pest resistance.
 - a. Include multiple species along main corridors.
 - b. In areas where a uniform row of trees is desired, select a variety of trees with similar stature and form.
 - c. Use alternative design elements to provide a cohesive character.
- Avoid planting species of trees with similar vulnerabilities to pests and disease as current species.
- Use pest and disease resistant species when available.
- At a minimum, pursue species diversity goals that meet the 10-20-30 rule, but strive for even greater diversity among genera.
- Conduct a resource analysis of community trees every five years to review the composition of public trees and quantify the benefits that they provide.

COST: \$

TIME FRAME: Ongoing



EXISTING POLICY 3: ENCOURAGE THE ESTABLISHMENT OF TREES THROUGH EFFICIENT AND SUSTAINABLE IRRIGATION SOLUTIONS.

PERFORMANCE MEASURE:

High tree establishment rates and minimal tree losses following periods of drought.

RATIONALE:

Trees need water to survive and efficient cost-effective watering solutions will help to ensure that young trees get established without being cost prohibitive.

RISK:

Increased mortality rates in young trees and stressed trees.

BENEFIT:

Reduced tree mortality rates and reduced labor and water costs.

I. OBJECTIVE:

Promote the efficient use of tree planting funds.

ACTIONS:

- Plan for planting succession for desirable and underutilized species.
- Decrease or cease planting of undesirable and under-performing species.
- Consider conducting a planting priority analysis to determine potential planting sites that provide the maximum benefit.
 - a. Identify planting sites that would have the greatest impact of reducing urban heat islands and stormwater runoff.
 - b. Identify planting sites that would provide more equitable distribution of tree canopy cover.
- Determine a planting plan with potential tree planting sites to guide and prioritize new tree plantings.
 - a. Prioritize available planting sites based on:
 - i. Trees that have been removed
 - ii. Space and minimum planting setbacks
 - iii. Soil characteristics
 - iv. Irrigation infrastructure
 - v. Landscape goals and tree density
 - vi. Revitalization of transition zones
 - vii. Site constraints
 - viii. Annual maintenance costs
 - b. Set replacement ratios for the replacement of trees removed in the rights-of-way.

COST: \$

TIME FRAME: Ongoing

II. OBJECTIVE:

Support established and mature trees.

ACTIONS:

- Provide regular maintenance of established and mature trees.
- Inspect trees for structural problems.
- Provide proactive pruning.
- Develop planting plans for succession.

COST: \$

TIME FRAME: Ongoing

III. OBJECTIVE:

Establish a more water-wise urban forest.

ACTIONS:

- Choose species suited to the local climate.
- Incorporate native species into planting palettes.
- Use drought tolerant and water efficient species (per *Garden Grove General Plan and Active Streets Master Plan*).
- Consider increasing the space allotted for non-traditional parks, similar to the well-received butterfly gardens.
 - a. Consider incorporating “demonstration gardens” to show residents drought tolerant options.
- Continue to use “water bags” and other efficient systems to water trees.
- Collaborate with Parks Department to align the proper amount of water for turf and trees present in the Parks.

COST: \$

TIME FRAME: Ongoing

IV. OBJECTIVE:

Ensure trees receive adequate water.

ACTIONS:

- Continue to provide water to help establish new tree plantings.
- Restore irrigation to trees in areas where irrigation was cut-off due to drought.
- Refurbish irrigation to medians.
- Use watering bags if irrigation is not possible.
- Implement smart controllers for irrigation.
- Design irrigation to split the watering of trees and other vegetation.
- Provide educational materials about the importance of watering trees, even during periods of drought.

COST: \$-\$\$

TIME FRAME: 10 Years



Focus Area: Community outreach and collaboration

GOAL 9: CELEBRATE THE IMPORTANCE OF URBAN TREES.

PERFORMANCE MEASURE:

Recognition as a Tree City USA and Arbor Day activities/celebrations.

RATIONALE:

Observing and recognizing the benefits provided by the urban forest encourages community engagement and promotes appreciation for trees.

RISK:

When community members are unaware of the benefits of the urban forest, people are likely going to be less supportive of programming and the resources needed to care for it.

BENEFIT:

Community awareness and appreciation of the urban forest promotes support for the necessary resources to maintain it.

OBJECTIVE:

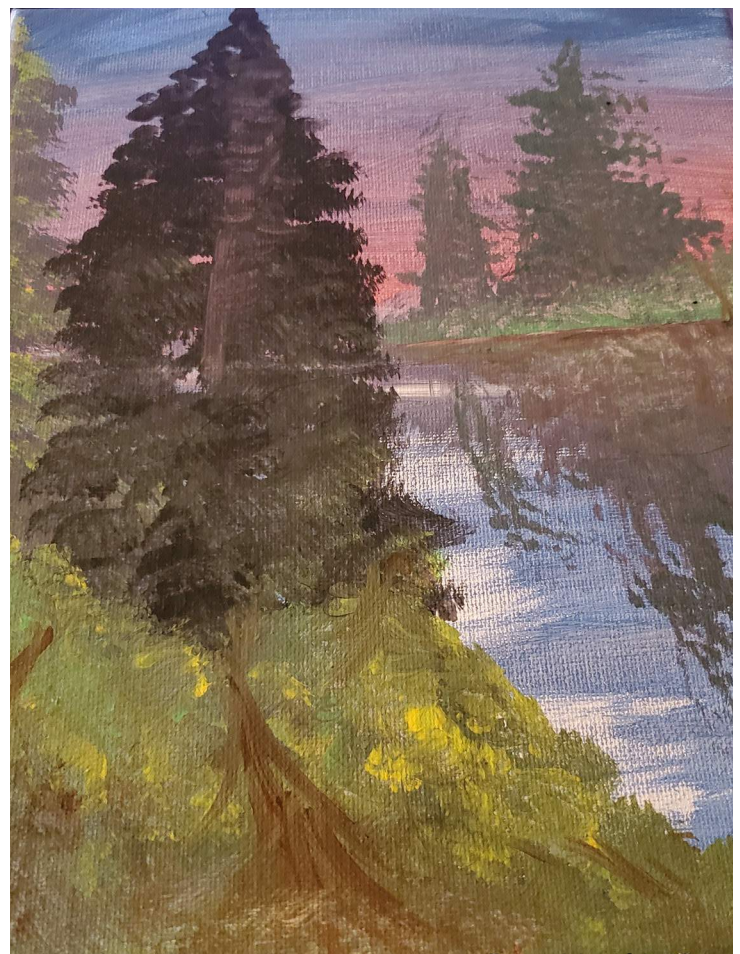
Re-establish the Tree City USA designation.

ACTIONS:

- Continue to meet all requirements to become a Tree City USA.
 - a. Create Tree Board or Department.
 - b. Continue to follow the Tree Ordinance.
 - c. Continue to spend more than \$2/capita on the urban forestry department.
 - d. Continue to provide information about Arbor Day on the city website.
- Have a formal proclamation at Annual Arbor Day Celebration.

COST: \$

TIME FRAME: 1 Year



“BETWEEN EVERY TWO PINE TREES
THERE IS A DOOR LEADING TO A
NEW WAY OF LIFE.”

JOHN MUIR



GOAL 10: SUPPORT COMMUNITY ENGAGEMENT AND STEWARDSHIP OF THE URBAN FOREST.

PERFORMANCE MEASURE:

Participation in forestry programming.

RATIONALE:

An educated and engaged community is more likely to support and advocate for the urban forest.

RISK:

Apathy towards the urban forest may result in loss in benefits provided by the urban forest to the community.

BENEFIT:

A community that supports the urban forest protects the urban forest and therefore the benefits that it provides to the city.

I. OBJECTIVE:

Promote the Urban Forest Management Plan.

ACTIONS:

- Distribute the UFMP through the city website and through social media.
- Annually review and report on progress made on UFMP goals. Adjust targets to continue to align with:
 - a. Community values and expectations of the urban forest
 - b. Funding availability
 - c. City goals, policies, and actions
- Publish a State of the Urban Forest Report beginning at year one and then every two to five years to report progress and challenges of the UFMP.

COST: \$

TIME FRAME: Ongoing

II. OBJECTIVE:

Update the web page for the Trees and Flood Control Section on the city website.

ACTIONS:

- Provide important tree-related information in multiple languages.
- Provide city-approved tree planting list.
- Add information on the Memorial Tree Program to the city website.
- Summarize maintenance responsibilities of adjacent property owners for city-planted trees.
 - a. Provide links for proper tree-care resources.
 - i. How to plant a tree
 - ii. How to prune a tree
 - iii. How to fertilize and mulch
 - iv. How to irrigate
 - v. How to hire an arborist or tree care company
- Share the UFMP through the website.
- Communicate the benefits of trees and tree canopy including environmental, social, and economic.

COST: \$

TIME FRAME: 1 Year

III. OBJECTIVE:

Encourage community involvement and stewardship for the urban forest.

ACTIONS:

- Explore partnering with local schools, service groups (Kiwanis Club, Rotary Club, etc.), or nonprofits (Orange County Coastkeeper) to develop a volunteer forester program.
- Consider a program for citizens to sponsor trees in nontraditional parks.
- Consider partnering with a local nonprofit.
- Consider creating a community-led committee to advocate for the urban forest.
 - a. Outline the roles and responsibilities of a community lead committee.
 - b. Include youth through an ambassador's program.

COST: \$

TIME FRAME: Ongoing

IV. OBJECTIVE:

Encourage the expansion of the urban forest through tree plantings on both public and private property.

ACTIONS:

- Identify preferred species of trees to encourage tree plantings in different cultural neighborhoods within the city.
- Facilitate tree plantings with community groups on private property and in parks.
- Coordinate with schools to promote tree plantings on school campuses.
- Enhance the transition between Garden Grove and Anaheim resort area.
- Plant large stature shade trees where space allows, especially in parks.

- Expand tree plantings in center medians.
 - a. Prioritize median plantings with existing irrigation infrastructure.
 - b. Consider median plantings in new developments or areas undergoing significant reconstruction.

COST: \$

TIME FRAME: Ongoing

V. OBJECTIVE:

Support the formation of a community-led tree ad-hoc committee.

ACTIONS:

- Work with community members to create an ad-hoc committee for the urban forest that meets on a temporary basis for a specific purpose. (e.g., Tree Planting Event, Urban Forest Management Plan Update, etc.)
 - a. Outline the roles and responsibilities of the ad-hoc committee.
 - b. Explore potential roles for youth, including an ambassador's program.
- Explore partnering with local schools, service groups (Kiwanis Club, Rotary Club, etc.), or nonprofits (Orange County Coastkeeper) to develop a volunteer forester program.

COST: \$

TIME FRAME: 10 Years

• How are we doing?

With appropriate care and planning, the urban forest is an asset that has the potential to increase in value over time. As young trees mature and their leaf surface and canopy grow, so too will the overall benefits and value from the community's urban forest. The objectives and strategies of the Urban Forest Management Plan (UFMP) are intended to support this process in an appropriate manner that encourages the sustainable stewardship of community trees with consideration for safety, cost efficiency, and community values. The UFMP includes strategies for measuring the success of the UFMP over time.

Monitoring and Measuring Results

Through talking with community partners and those within the urban forestry program, a set of goals were created to meet the strong demand for protecting and enhancing the urban forest, as stated in the community vision. The success of these goals is largely dependent on creating objectives and strategies to meet the targets outlined in the UFMP as well as monitor the progress of these action steps.

ANNUAL PLAN REVIEW

The UFMP is an active tool that will guide management and planning decisions over the next 40 years. Its goals and actions will be reviewed annually for progress and integration into an internal work plan. The UFMP presents a long-range vision and target dates are intended to be flexible in response to emerging opportunities, available resources, and changes in community expectations. Therefore, each year, specific areas of focus should be identified, which can inform budget and time requirements for Urban Forest Managers.

RESOURCE ANALYSIS

With a Resource Analysis, Garden Grove can identify quantitatively the value of the composition of public trees, the annual benefit provided to the community, replacement value, and benefit versus investment ratios. With this information, Garden Grove can improve health (condition), species diversity, annual benefits, and overall resource value of its tree resource. When a resource analysis is conducted every five years, the city can illustrate progress and success towards the UFMP goals. A five-year Resource Analysis review is a possible way to monitor progress on efforts to increase diversity through a list of tree species appropriate for a variety of different spaces and landscapes.

CANOPY ANALYSIS

With the recent Tree Canopy Assessment, Garden Grove has a baseline tree canopy for the entire urban forest, which allows for continued monitoring of trends in the canopy cover on private property.



COMMUNITY SATISFACTION

The UFMP results will be measurable through increased benefits and value in the community tree resource and the preservation and eventual increase in canopy cover over time.

Attainment of the objectives and strategies will support better tree health, greater longevity, and a reduction in tree failures. However, one of the greatest measurements of success for the UFMP will be its ability to meet community expectations for the care and preservation of the community tree resource. Community satisfaction can be measured through surveys and will be evidenced by public support for realizing the objectives of the plan. Community satisfaction can also be measured by the level of engagement and support for forestry programs.

REPORTING

Completion of this UFMP is the first step towards achieving the vision for Garden Grove's urban forest. Continual monitoring, analysis, and revisions will help forest managers keep stakeholders informed and engaged. By organizing data into specific components (for example, Urban Forest Reports, Community Satisfaction Surveys), it will be possible to revise specific areas of weakness and buttress areas of strength. Revisions to the UFMP should occur with major events, such as newly discovered pests or diseases, or significant policy and regulation changes. A complete formal revision should occur in unison with major municipal projects, such as the comprehensive Management Plan. It is important to remember that the Garden Grove Urban Forest Management Plan is a "living document" that should adapt to new conditions.

STATE OF THE COMMUNITY FOREST REPORT

The purpose of the report is to provide structural and functional information about the urban forest (including the municipal forest) and recommend strategies for its proactive management, protection, and growth.



Into the forest I go

to lose my mind and find my soul

John Muir



Appendix A: Terms and Definitions

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

A Federation of United States industry sectors (e.g., businesses, professional societies and trade associations, standards developers, government agencies, institutes, and consumer/labor interest groups) that coordinates the development of the voluntary consensus standards system.

AMERICAN PUBLIC WORKS ASSOCIATION (APWA)

An organization that supports professionals who operate, improve, or maintain public works infrastructure by advocating to increase awareness, and providing education, credentialing, as well as other professional development opportunities.

ARBORICULTURE

The science, art, technology, and business of tree care.

BEST MANAGEMENT PRACTICES (BMP)

Management practices and processes used when conducting forestry operations, implemented to promote environmental integrity.

CAPITAL IMPROVEMENT PROJECTS (CIP)

Infrastructure projects and equipment purchases identified by a government in order to maintain or improve public resources. Projects, such as (1) constructing a facility, (2) expanding, renovating, replacing, or rehabilitating an existing facility, or (3) purchasing major equipment are identified, and then purchasing plans and development schedules are developed.

CLIMATE ACTION PLAN (CAP)

Government lead initiatives to decrease greenhouse gas emissions and prepare for the impacts of climate change.

COMMUNITY URBAN FOREST

The collection of publicly owned trees within an urban area, including street trees and trees in parks and other public facilities.



DRIP LINE AREA

The area measured from the trunk of the tree outward to a point at the perimeter of the outermost branch structure of the tree.

DUTCH ELM DISEASE (DED)

A wilt disease of elm trees caused by plant pathogenic fungi. The disease is either spread by bark beetles or tree root grafts.

EMERALD ASH BORER (EAB)

The common name for *Agrilus planipennis*, an emerald green wood boring beetle native to northeastern Asia and invasive to North America. It feeds on all species of ash.

GREENHOUSE GAS (GHG)

A gas that traps heat in Earth's atmosphere.

GEOGRAPHIC INFORMATION SYSTEM (GIS)

Computer-based tools designed to increase the organization and understanding of spatial or geographic data. Many different kinds of data can be displayed on one map for visualization and interpretation.

INTEGRATED PEST MANAGEMENT (IPM)

Using pest and environmental information to determine if pest control actions are warranted. Pest control methods (e.g., biological control, habitat manipulation, cultural control, plant resistance, and chemical control) are chosen based on economic and safety considerations.

I-TREE

A computer program with tools used to determine the costs and benefits of urban trees based on inventory data, operations costs, and other factors.

INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA)

An international nonprofit organization that supports professionals in the field of arboriculture by providing professional development opportunities, disseminating applicable research findings, and promoting the profession.

INVENTORIED TREES

Includes all public trees collected in the inventory as well as trees that have since been collected by city staff.



MAJOR MAINTENANCE

Includes major trimming or pruning or cabling, and any other similar act, which promotes the life, growth, health, or beauty of trees, excepting watering and minor pruning.

MAJOR TRIMMING AND PRUNING

The removal of branches of three inches in diameter or greater.

MIGRATORY BIRD TREATY ACT (MBTA)

A United States federal law adopted to protect migratory birds.

NATURAL AREA

A defined area where native trees and vegetation are allowed to grow and reproduce naturally with little or no management except for control of undesirable and invasive species.

OPEN SPACE

A defined area of undeveloped land that is open to the public. The land can include native or naturalized trees and vegetation.

PLANT HEALTH CARE (PHC)

A program that consists of (1) routinely monitoring landscape plant health and (2) individualized plant management recommendations in order to maintain, or improve, the vitality, appearance, and safety of trees and other plants.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Equipment worn to enhance workplace safety and minimize the risk to physical hazards (e.g., gloves, hard hats, bodysuits, and foot, eye, or ear protection).

PRIVATE TREE

Any tree located on private property, including residential and commercial parcels.

PUBLIC TREE

Any tree located in the public right-of-way, city park, and/or city facility.

RIGHT TREE RIGHT PLACE

The practice of installing the optimal species for a particular planting site. Considerations include existing and planned utilities and other infrastructure, planter size, soil characteristics, water needs as well as the intended role and characteristics of the species.



STREET TREE

Any tree growing within the tree maintenance strip whether planted by the city or not.

STRUCTURAL AND TRAINING PRUNING

Pruning to develop a sound and desirable scaffold branch structure in a tree and to reduce the likelihood of branch failure.

TREE

Any live woody plant having one or more well-defined perennial stems with a diameter at maturity of six inches or more, measured at fifty-four inches above ground level (breast height).

TREE CANOPY

The layer of leaves, branches, and stems of trees that cover the ground when viewed from above.

TREE CANOPY ASSESSMENT

A document based off of GIS mapping data that provides a birds-eye view of the entire urban forest and establishes a tree canopy baseline of known accuracy. The UTC helps managers understand the quantity and distribution of existing tree canopy, potential impacts of tree planting and removal, quantified annual benefits trees provide to the community, and benchmark canopy percent values.

TREE CITY USA

A program through the Arbor Day Foundation that advocates for green urban areas through enhanced tree planting and care

TREE IN PROXIMITY TO TRAILS/FACILITIES

A tree that, as a result of size and location, has the potential to impact or interfere with the use, safety, and/or condition of a defined trail, structure, or facility (e.g., picnic table, bench, parking area, etc.)

TREE RISK ASSESSMENT QUALIFIED (TRAQ)

An International Society of Arboriculture qualification. Upon completion of this training, tree care professionals demonstrate proficiency in assessing tree risk.

URBAN FOREST

The collection of privately- and publicly-owned trees and woody shrubs that grow within an urban area.



URBAN FOREST MANAGEMENT PLAN (UFMP)

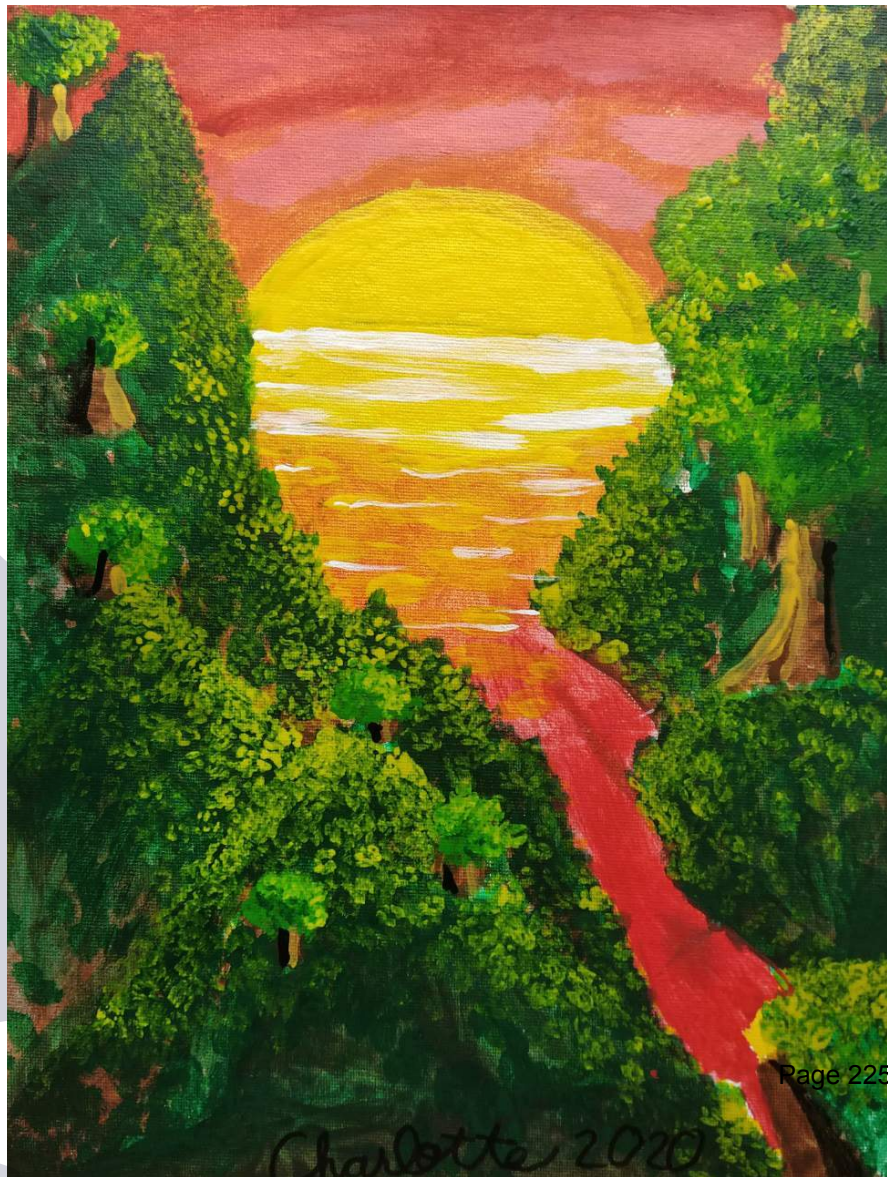
A document that provides a comprehensive information, recommendations, and timelines to guide for the efficient and safe management of a city's tree canopy. The plan uses adaptive management model to provide reasoned and transparent calls to action from an inventory of existing resources.

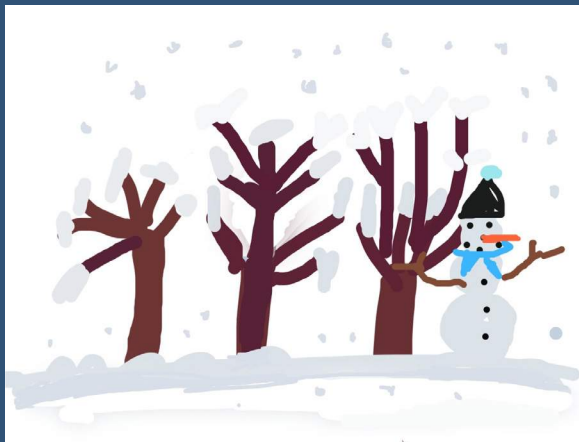
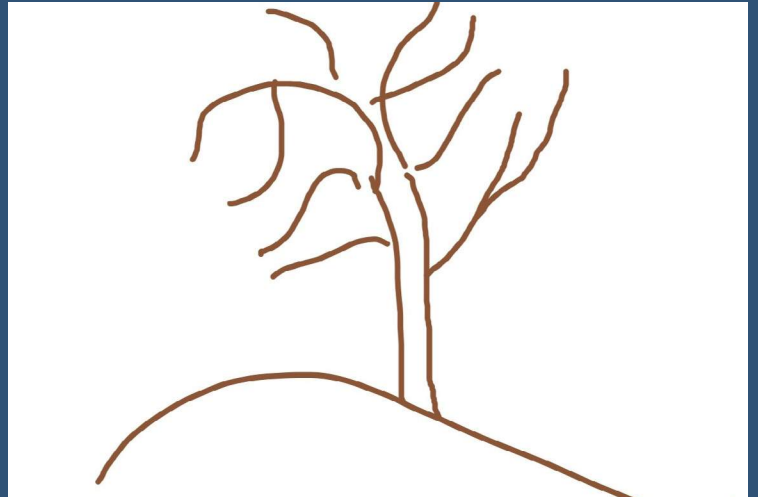
URBAN FORESTRY

The cultivation and management of native or introduced trees and related vegetation in urban areas for their present and potential contribution to the economic, physiological, sociological, and ecological well-being of urban society.

WILDFIRE URBAN INTERFACE (WUI)

A transition zone where homes are located on the edge of fire prone areas and are at an increased risk of personal injury or property damage resulting from a wildfire.





“FORESTS ARE THE LUNGS OF OUR LAND,
PURIFYING THE AIR AND GIVING FRESH
STRENGTH TO OUR PEOPLE.”

FRANKLIN D. ROOSEVELT



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Appendix C: Industry Standards

ANSI Z133 Safety Standard, 2017

Reviews general safety, electrical hazards, use of vehicles and mobile equipment, portable power hand tools, hand tools and ladders, climbing, and work procedures.

ANSI A300

ANSI A300 standards represent the industry consensus on performing tree care operations. The standards can be used to prepare tree care contract specifications.

ANSI A300 Pruning Standard-Part 1, 2017

ANSI A300 Soil Management-Part 2, 2011

ANSI A300 Support Systems Standard-Part 3, 2013

ANSI A300 Construction Management Standard-Part 5, 2012

ANSI A300 Transplanting Standard-Part 6, 2012

ANSI A300 Integrated Vegetation Management Standard-Part 7, 2012

ANSI A300 Root Management Standard-Part 8, 2013

ANSI A300 Tree Risk Assessment Standard a Tree Failure-Part 9, 2017

ANSI A300 Integrated Pest Management-Part 10, 2016

Includes guidelines for implementing IPM programs, including standards for Integrated Pest Management, IPM Practices, tools and equipment, and definition.

Best Management Practices (BMPs)

Integrated Pest Management, Second Edition, P. Eric Wiseman and Michael J. Raupp, 2016

Provides a comprehensive overview of the basic definitions, concepts, and practices that pertain to landscape Integrated Pest Management (IPM). The publication provides specific information for designing, planning, and implementing an IPM program as part of a comprehensive Plant Health Care (PHC) management system, including topics such as:

- IPM Concepts and Definitions
- Action Thresholds
- Monitoring Tools and Techniques
- Preventive Tactics



- Control Tactics
- Documentation and Recordkeeping

Integrated Vegetation Management, Second Edition, Randall H. Miller, 2014

A guide to the selection and application of methods and techniques for vegetation control for electric rights-of-way projects and gas pipeline rights-of-way. Topics included: safety, site evaluations, action thresholds, evaluation and selection of control methods, implementing control methods, monitoring treatment and quality assurance, environmental protection, tree pruning and removal, and a glossary of terms.

Managing Trees During Construction, Second Edition, Kelby Fite and E. Thomas Smiley, 2016

Describes tree conservation and preservation practices that help to protect selected trees throughout the construction planning and development process so that they will continue to provide benefits for decades after site disturbance, including planning phase, design phase, pre-construction phase, construction phase, and post-construction phase.

Root Management, Larry Costello, Gary Watson, and Tom Smiley, 2017

Recommended practices for inspecting, pruning, and directing the roots of trees in urban environments to promote their longevity, while minimizing infrastructure conflicts.

Special companion publication to the ANSI A300 Part 8: Tree, Shrub, and Other Woody Plant Management—Standard Practices (Root Management)

Tree Planting, Second Edition, Gary Watson, 2014

Provides processes for tree planting, including site and species selection, planting practices, post-planting pruning, and early tree care. Other topics included are time of planting, nursery stock: types, selection, and handling, preparing the planting hole, planting practices, root loss and new root growth, redevelopment of root structure, pruning, palms, after planting, final inspection, and a glossary of terms.

Tree Inventories, Second Edition, Jerry Bond, 2013

Provides considerations for managing large numbers of trees considered as individuals rather than groups and serves as a guide for making informed decisions that align with inventory goals with needs and resources, including inventory goals and objectives, benefits and costs, types, work specifications, and maintaining inventory quality.

Tree Risk Assessment, Second Edition, E. Thomas Smiley, Nelda Matheny, and Sharon Lilly, 2017

A guide for assessing tree risk as accurately and consistently as possible, to evaluate that risk, and to recommend measures that achieve an acceptable level of risk, including topics: risk assessment basics, levels and scope of tree risk assessment, assessing targets, sites, and trees, tree risk categorization, risk mitigation: preventive and remedial actions, risk reporting, tree related conflicts that can be a source of risk, loads on trees, structural defects and conditions that affect likelihood of failure, response growth, description of selected types of advanced tree risk assessments.



Tree Shrub Fertilization, Third Edition, E. Thomas Smiley, Sharon Lilly, and Patrick Kelsey, 2013

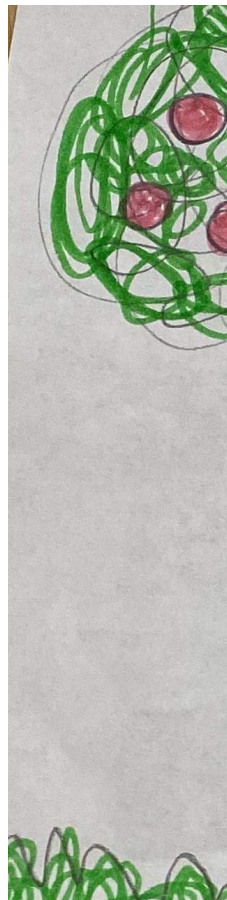
Aides in the selection and application of fertilizers for trees and shrubs, including: Essential elements, determining goals and objectives of fertilization, soil testing and plan analysis, fertilizer selection, timing, application, application area, rates, storage and handling of fertilizer, sample fertilizer contract for commercial/ municipal clients.

Soil Management, Bryant Scharenbroch, E. Thomas Smiley, and Wes Kocher, 2014

Focuses on the protection and restoration of soil quality that support trees and shrubs in the urban environment, including goals of soil management, assessment, sampling, and analysis, modifications and amendments, tillage, conservation, and a glossary of terms.

Utility Pruning of Trees, Geoffrey P. Kempter, 2004

Describes the current best practices in utility tree pruning based on scientific research and proven methodology for the safe and reliable delivery of utility services, while preventing unnecessary injury to trees. An overview of safety, tools and equipment, pruning methods and practices, and emergency restoration are included.



“EVERYTHING THAT MADE THAT GIANT TREE IS ALREADY CONTAINED
INSIDE THIS TINY LITTLE SEED. ALL IT NEEDS IS SOME TIME, A LITTLE
BIT OF SUNSHINE AND RAIN, AND VOILÁ!”

FLIK, A BUG'S LIFE



Appendix D: Tree Removal Checklist



CITY OF GARDEN GROVE PUBLIC WORKS DEPARTMENT
11222 ACACIA PARKWAY, GARDEN GROVE, CA 92840
TREES & STREETS DIVISION (714) 741-5000 | ggcity.org

Tree Removal Request

Permit # _____

INSTRUCTIONS AND INFORMATION

1. The City of Garden Grove Municipal Code Title 11 Public Property regulates the removal of a publicly owned trees. Valid reasons for tree removal may include, but are not limited to the list in the request justification below.
2. If your removal request is denied and you want to pursue the removal of an otherwise healthy right-of-way tree, then the Council Policy for resident petition for street tree removal and replacement shall be followed.
3. Trees Division and/or designated City staff may inspect the tree(s). By requesting a removal, you are consenting to an on-site inspection.

PROJECT INFORMATION

Tree Site Address: _____ Submittal Date: _____
Owner Name: _____ Phone #: _____
Mailing Address: _____ City: _____ State/Zip: _____
Applicant Name: _____ Phone #: _____
Mailing Address: _____ City: _____ State/Zip: _____
Email (Optional): _____

REQUEST JUSTIFICATION

Mark the reason for your tree removal request:

- ☐ Concern for public safety
☐ Poor health, including disease and/or decay
☐ Structural issues that cannot be corrected
☐ Inappropriate species
☐ Other, please justify: _____

Arborist Report (attach if available) Yes: ☐ No: ☐

REQUEST DETAILS

State the number of trees and species requested for removal

Species: _____ Number: _____

Species: _____ Number: _____

Signature of Applicant: _____ Printed Name: _____

FOR DEPARTMENT OF PUBLIC WORKS USE ONLY

Approval Signature: _____ Date: _____

Approval Signature: _____ Date: _____

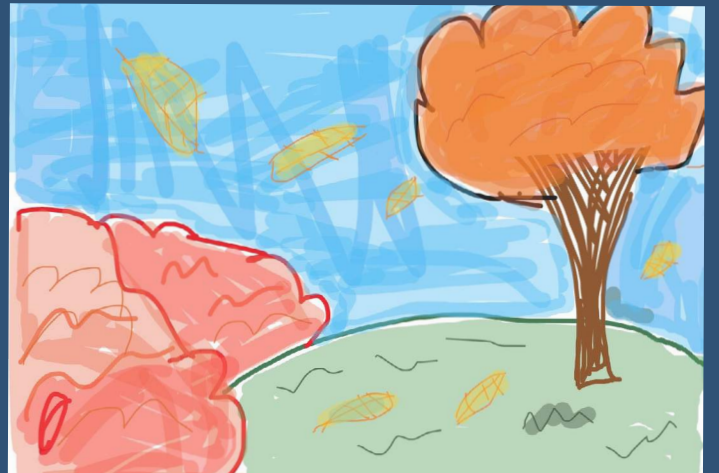
Time: _____ Fee: \$ _____

Save Form

Reset Form

Print Form

APPROVAL STAMP



“THERE IS A NEED TO EDUCATE AND EMPOWER THE PUBLIC ABOUT URBAN FORESTRY.”

GARDEN GROVE MANAGING PARTNER



Appendix E: Tree Protection in Construction Zones

Construction Site Management

Preservation of existing mature trees before, during, and after new construction and redevelopment is beneficial for a number of reasons, including:

- To sustain both the function and value of existing trees and tree canopy.
- To promote public safety and reduce liability by carefully maintaining the health of preserved tree.
- To contain costs associated with site restoration.
- To reduce or avoid soil compaction and degradation and preserve soil volume.
- To avoid physical injury to existing trees.
- To avoid root injury to trees.
- To protect soils and the hydraulic integrity of the entire site.
- To protect existing irrigation, utilities and underground drainage.
- To prevent sediment-laden and/or polluted runoff from entering drainage systems and water bodies (streams, wetlands, lakes, bays).

Best Management Practices

PRE-CONSTRUCTION

- The Project Manager shall know and understand the development and building regulations concerning trees and vegetation in the area.
- The Project Manager shall ensure that irrigation and drainage systems are operable and adequate.
- The Project Manager shall ensure all temporary erosion sediment control measures are in place prior to groundbreaking.
- The Project Arborist will be responsible for decisions related to vegetation on site before, during, and after construction.
- The Project Arborist shall perform a site inventory of all existing trees in order to record the variety, location, size, and health of each tree. Site inventory includes determining size, species, numbers, and numbers of trees/plants on site.



- Trees that require removal or pruning to accommodate future structures and construction equipment should also be identified.
- The Project Arborist shall submit a Tree Protection Plan (TPP) that identifies all significant trees that will remain on the project site.
- The TPP will indicate the Tree Protection Zone (TPZ) for each tree as (at a minimum) the greater of: 6-feet, or by multiplying each tree's diameter at 4.5-feet above existing grade (DBH) by a factor of one to determine the diameter, in feet, of the area above and below ground to be protected.
- The TPZ may exceed the Critical Root Zone (CRZ), which is not less than half the distance between the trunk and the outer edge of the tree's canopy, or drip line, but the TPZ may not be smaller than the CRZ.
- The TPP will contain the expected tree protection techniques that will be used on the project.
- The TPP will also list a timetable for project meetings with the Project Team including a pre-construction meeting and the schedule for the Project Arborist monitoring.
- Prior to approval of the TPP, the city shall collect an assurance device in the form of a deposit equal to the tree appraisal value of all protected trees as determined under the methods established by the Council of Trees & Landscape Appraisers Guide for Plant Appraisal (9th Edition or most current).

CONSTRUCTION SITE PREPARATION

- Staging areas for equipment shall be established far enough from existing trees to ensure adequate protection of the root zone.
- Entry and exit routes shall be established and fenced off with chain link or construction fencing. When planning routes, avoid utility access corridors.
- Irrigation and drainage systems shall be protected from damage unless plans call for renovation of such systems.
- Prior to beginning construction activities, the Project Arborist will supervise and verify the following tree protection measures are in place and comply with the approved TPP:
 - A 6-inch layer of coarse mulch or wood chips is to be installed within the TPZ of protected trees. Mulch shall be kept 12-inches away from the trunk.
 - Trunks of trees shall be protected with a single wrap of Geocomposite. Geocomposite shall be double sided, Geonet core with non-woven covering (such as Tenax Tendrain 770/2), or equivalent. Tree trunks will be protected with wrap.
 - Trees that have been identified in the site inventory as posing a health or safety risk may be removed or pruned by no more than one-third, subject to approval of the required permit by the Planning Division. Pruning of existing limbs and roots shall only occur under the direction of the Project Arborist.



- A protective barrier shall be installed around the Tree Protection Zone (TPZ). The Fence shall be construction of 6-foot high chain link. Posts shall be 2-inches in diameter, driven 2-feet into the ground. The distance between posts shall be not more than 10-feet. The enclosed area is the TPZ and shall have a warning sign displayed prominently at 20-foot (maximum) intervals along the fence. The warning sign shall be a minimum 8.5-inches x 11-inches and clearly state the following: “WARNING – Tree Protection Zone”. Fencing may be moved within the TPZ if authorized by the Project Arborist and city staff but not closer than the drip line from the trunk of any tree.
- Movable barriers of chain link fencing secured to cement blocks may be substituted for “fixed” fencing if the Project Arborist and city staff agree that the fencing will need to be moved to accommodate certain phases of construction. Moving TPZ fencing shall be prohibited without authorization from the Project Arborist and city staff.
- Should temporary access into the TPZ be approved, an additional layer of approved tree matting shall be placed over the Critical Root Zone (CRZ).
- Tree Growth Regulators may be used as approved by the Project Arborist and city staff. Paclobutrazol soil applied tree growth regulator (Cambistat® or equivalent) shall be applied to indicated trees by a qualified applicator. Applications shall follow manufacturer’s label and applicable laws. TGR reduces canopy growth and increases fibrous root system growth over 2 to 3-years. This can increase tolerance to drought, stress and improve absorption of nutrients and moisture during the stress recovery period.

DURING CONSTRUCTION

During the Construction phase, the Project Arborist should inspect the site on a regular basis to ensure the TPP is being adhered to and report any conflicts or deviations to the city Planner or City Representative. The Project Arborist also needs to be available at the site to monitor construction activities that require encroachment within the TPZ, such as grading or trenching. It may also be necessary to have other key project team members available to monitor these activities.

The Project Arborist shall specify to construction personnel that the following conditions shall be avoided:

- Allowing run off or spillage of damaging materials into the area below any tree canopy.
- Storing construction materials or portable toilets, stockpiling of soil, or parking or driving vehicles within the TPZ.
- Cutting, breaking, skinning, or bruising roots, branches, or trunks without first obtaining authorization from the Project Arborist.
- Allowing fires under and adjacent to trees.
- Discharging exhaust into foliage.
- Securing cable, chain, or rope to trees or shrubs.



- Trenching, digging, or otherwise excavating within the CRZ or TPZ of the tree(s) without first obtaining authorization from the Project Arborist.
- Applying soil sterilizers under pavement near existing trees.

The Project Arborist shall provide periodic inspections during construction. Four-week intervals should be sufficient to access and monitor the effectiveness of the TPP and to provide recommendations for any additional care or treatment. Inspections that are more frequent may also be required based on the approved TPP.

The following activities should be observed and inspected by the Project Arborist during the construction phase to ensure compliance with the approved TPP:

- Only excavation by hand or compressed air shall be allowed within the TPZ of trees. Machine trenching shall not be allowed.
- In order to avoid injury to tree roots, when a trenching machine is being used outside of the TPZ of trees, and roots are encountered smaller than 2-inches, the wall of the trench adjacent to the trees shall be hand-trimmed, making clear, clean cuts through the roots. All damaged, torn, and cut roots shall be given a clean cut to remove ragged edges, which promote decay. Trenches shall be filled within 24-hours; where this is not possible, the side of the trench adjacent to the trees shall be kept shaded with four layers of dampened, untreated burlap, wetted as frequently as necessary to keep the burlap wet. Roots 2-inches or larger, when encountered, shall be reported immediately to the Project Arborist, who will decide whether the Contractor may cut the root as mentioned above or shall excavate by hand or with compressed air under the root. All exposed roots are to be protected with dampened burlap.
- Where possible, route pipes outside of the TPZ of a protected tree to avoid conflict with roots.
- Where it is not possible to reroute pipes or trenches, the contractor shall bore or tunnel beneath the TPZ of the tree. The boring shall take place not less than 3-feet below the surface of the soil in order to avoid encountering “feeder” roots. All boring equipment must be staged outside of the TPZ.
- All grade changes adjacent to the TPZ of a significant tree shall be supervised by the Project Arborist. Cuts or fills of soil adjacent to the TPZ will have a retaining wall system installed as approved by the Project Arborist and city staff.
- Any damage due to construction activities shall be reported to the Project Arborist and city staff within 6-hours so that remedial action can be taken.
- The Project Arborist shall be responsible for the preservation of the designated trees. Should the builder fail to follow the tree protection specifications, it shall be the responsibility of the Project Arborist to report the matter to city staff as an issue of non-compliance.

Additionally, it is the responsibility of the Project Manager to ensure compliance with the following activities:



- Construction shall be monitored regularly to ensure compliance with specifications. Work shall be stopped if construction site management BMPs are not being followed by the contractor.
- Cement washout pits and chemical holding areas shall be located away from tree protection areas, streams, and wetlands.
- Contractor parking and material storage shall be limited to already impacted areas away from tree roots.
- Site offices and equipment shall not encroach into tree protection areas.
- Refueling and maintenance areas shall be kept away from trees, native soils, water bodies and drainage systems. Fuel spills will not be tolerated on construction sites.
- To the extent possible, construction equipment shall be kept away from all on-site vegetation, especially those within designated protection areas.

POST-CONSTRUCTION

The post-construction phase does not end when the equipment leaves and the new tenants move in. Important follow-up monitoring of the protected trees will help ensure their survival and identify signs of early stress.

The applicant shall arrange with the Project Arborist for the long-term care and monitoring of preserved trees by complying with the following conditions:

- Complete post-construction tree maintenance, including pruning, mulching, fertilization, irrigation, and soil aeration where necessary.
- Remove, by hand, all soil and root protection material such as wood chips, gravel, and plywood.
- Provide for remediation of compacted soil by methods such as aeration or vertical mulching.
- In the absence of adequate rainfall, apply at least 1-inch of water per week in the CRZ by deep watering.
- Fertilize trees with slow released phosphorus, potassium, calcium, magnesium, and other macro- and micro-nutrients as indicated by a soil test, but wait at least 1-year to apply any nitrogen.
- Fertilize lightly with slow-release nitrogen after 1-year, and then make annual light nitrogen applications for the next 3 to 5-years.
- Inspect trees annually for at least 3 to 5-years after construction to look for changes in condition and signs of insects or disease and to determine maintenance needs.
- Remove trees that are badly damaged or are in irreversible decline as determined by the Project Arborist and city staff.



- Continue to protect not only the large, established trees on the site but also those newly planted in the landscape.
- Maintain TPP during the installation of new landscaping.
- Provide annual inspection reports to the city.
- Review TPP prior to the installation of landscaping and walkways/sidewalks.

Mitigating Tree and Infrastructure Conflicts

Conflicts may occur when tree roots grow adjacent to paving, foundations, sidewalks, or curbs (hardscape). Improper or careless extraction of these elements can cause severe injury to the roots and instability or even death of the trees. The following alternatives must first be considered before root pruning within the TPZ of a tree.

Removal of Pavement or Sidewalk

Removal of existing pavement over tree roots shall include the following precautions: break hardscape into manageable pieces with a jackhammer or pick and hand-load the pieces onto a loader. The loader must remain outside the TPZ on undisturbed pavement or off exposed roots. Do not remove base rock that has been exploited by established absorbing roots. Apply untreated wood chips over the exposed area within 1-hour, then wet the chips and base rock and keep moist until overlay surface is applied.

Replacement of Pavement or Sidewalk

An alternative to the severance of roots greater than 2-inches in diameter should be considered before cutting roots. If an alternative is not feasible, remove the sidewalk, as stated above, cut roots with a sharp, clean saw, as approved by the Project Manager or Project Arborist and replace sidewalk using #3 dowels at the expansion joint if within 10-feet of a protected tree. Use wire mesh reinforcement if within 10-feet of the trunk of a tree.

Alternative Methods to Reduce Root Pruning

- Grinding a raised sidewalk edge.
- Ramping the walking surface over the roots or lifted slab with pliable paving.
- Routing the sidewalk around the tree roots.
- Install boardwalk, flexible paving, or rubberized sections.

New sidewalk or driveway design should consider alternatives to conventional pavement and sidewalk materials. Substitute permeable materials for typical asphalt or concrete overlay, sub-base or footings to consider are permeable paving materials (such as ECO-Stone or RIMA pavers), interlocking pavers, flexible paving, wooden walkways, and brick or flagstone walkways on sand foundations.



Avoid tree and infrastructure conflicts and associated costs by the following planting practices:

- Plant deep rooting trees that are proven to be non- or minimally invasive.
- Over soil that shrinks and swells, install a sidewalk with higher strength that has wire mesh and/or expansion slip joint dowel reinforcement.
- Fracture soil with an air spade and backfill with sand prior to planting to promote deep rooting and improved drainage.
- Install root barrier only along the hardscape area of the tree and allow roots to use open lawn or planter strip areas.
- Dedicate at least 10-feet of planting space for the growth of each new tree.
- Provide a dedicated irrigation system or zone for the tree so the trees do not have to compete and are not dependent on the turf and shrub irrigation.
- Avoid planting trees over underground drainage systems where root intrusion will impede function of the system.

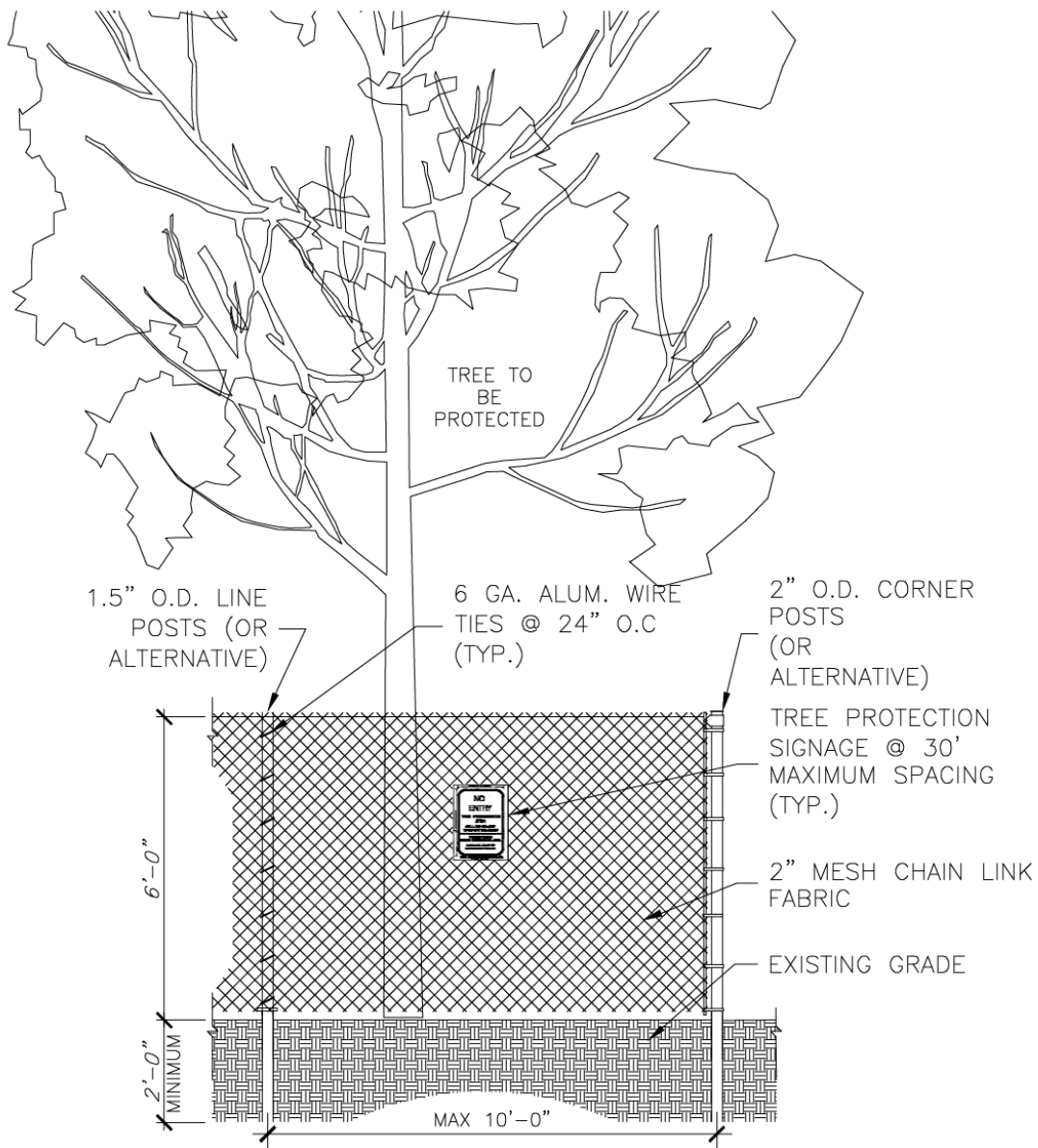
Alternative Base Course Materials: When designing hardscape areas near trees, the project architect or engineer should consider the use of recommended base course material such as an engineered structural soil mix. An approved structural soil mix will allow a long-term, cost-effective tree and infrastructure compatibility that is particularly suited for the following types of development projects:

- Repair or replacement of sidewalk greater than 40-feet in length;
- Planting areas that are designed over structures or parking garages;
- Confined parking lot medians and islands or other specialized conditions as warranted.

Training

- The Project Arborist should provide training to all construction personnel to ensure they understand all construction site BMPs.
- The Construction Supervisor and Architect should have current training and education dealing with construction site management. This training should include topics regarding protecting trees and erosion control on construction sites.





NOTES:

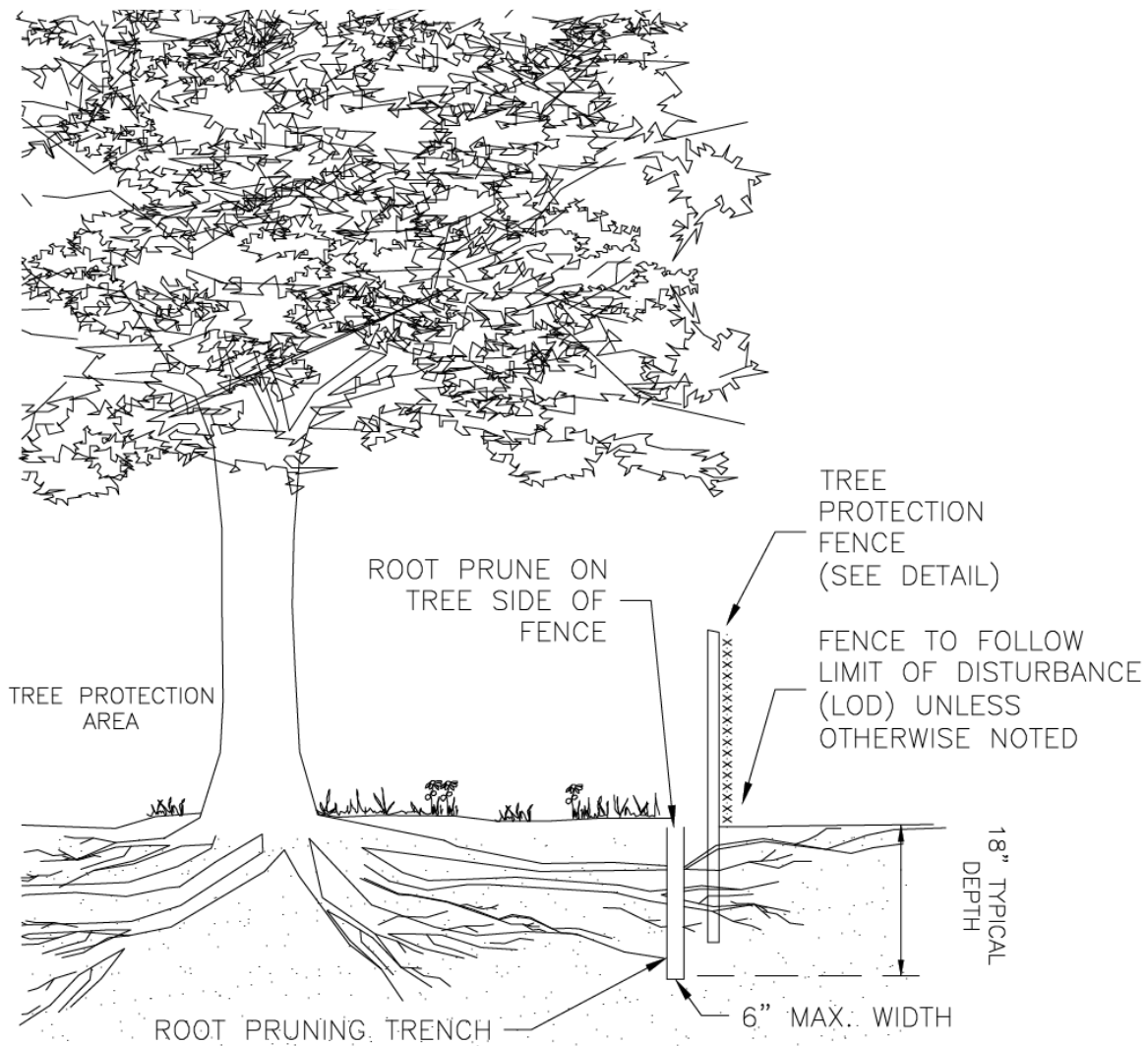
1. TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION.
2. SUPER SILT FENCE MAY BE USED IN LIEU OF WELDED WIRE FOR TREE PROTECTION PROVIDED IT IS INSTALLED AND MAINTAINED AS A TREE PROTECTION MEASURE AND IS POSTED WITH TREE PROTECTION SIGNS.
3. TREE PROTECTION FENCE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. REMOVE FENCE ONLY WITH APPROVAL AND AFTER ALL SITE WORK HAS BEEN COMPLETED.



CHAIN LINK TREE PROTECTION FENCE (TYPICAL)

SCALE: NTS





NOTES:

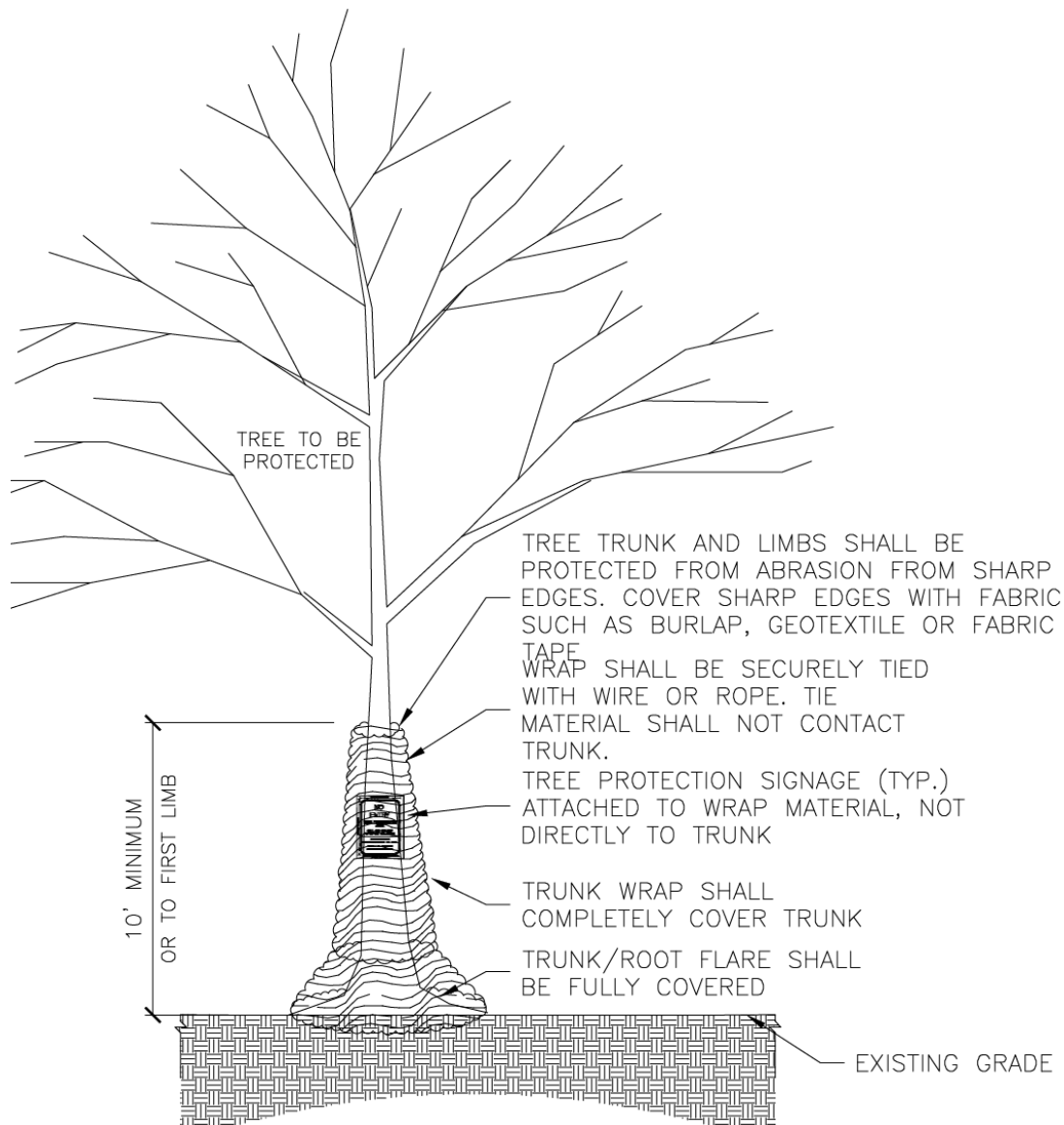
1. TREE PROTECTION AREA WILL BE DETERMINED AS PART OF THE PLAN REVIEW PROCESS. EXACT LOCATION, DEPTH AND METHODS OF ROOT PRUNING TO BE DETERMINED IN THE FIELD BY PROJECT ARBORIST.
2. EXACT LOCATION OF TREE PROTECTION AREAS SHALL BE STAKED OR FLAGGED PRIOR TO TRENCHING.
3. TRENCH SHOULD BE BACKFILLED IMMEDIATELY OR INCORPORATED WITH SILT FENCE INSTALLATION.
4. ROOTS SHOULD BE SEVERED BY TRENCHER, VIBRATORY PLOW OR APPROVED EQUIVALENT. ROOTS OVER 1.5" DIAMETER SHOULD BE CLEANLY CUT BY HAND. ROOT PRUNING ADJACENT TO SPECIMEN TREES MAY REQUIRE SOIL REMOVAL BY SUPERSONIC AIR TOOL TO MINIMIZE TREE AND ROOT IMPACTS.



ROOT PRUNING (TYPICAL)

SCALE: NTS





NOTES:

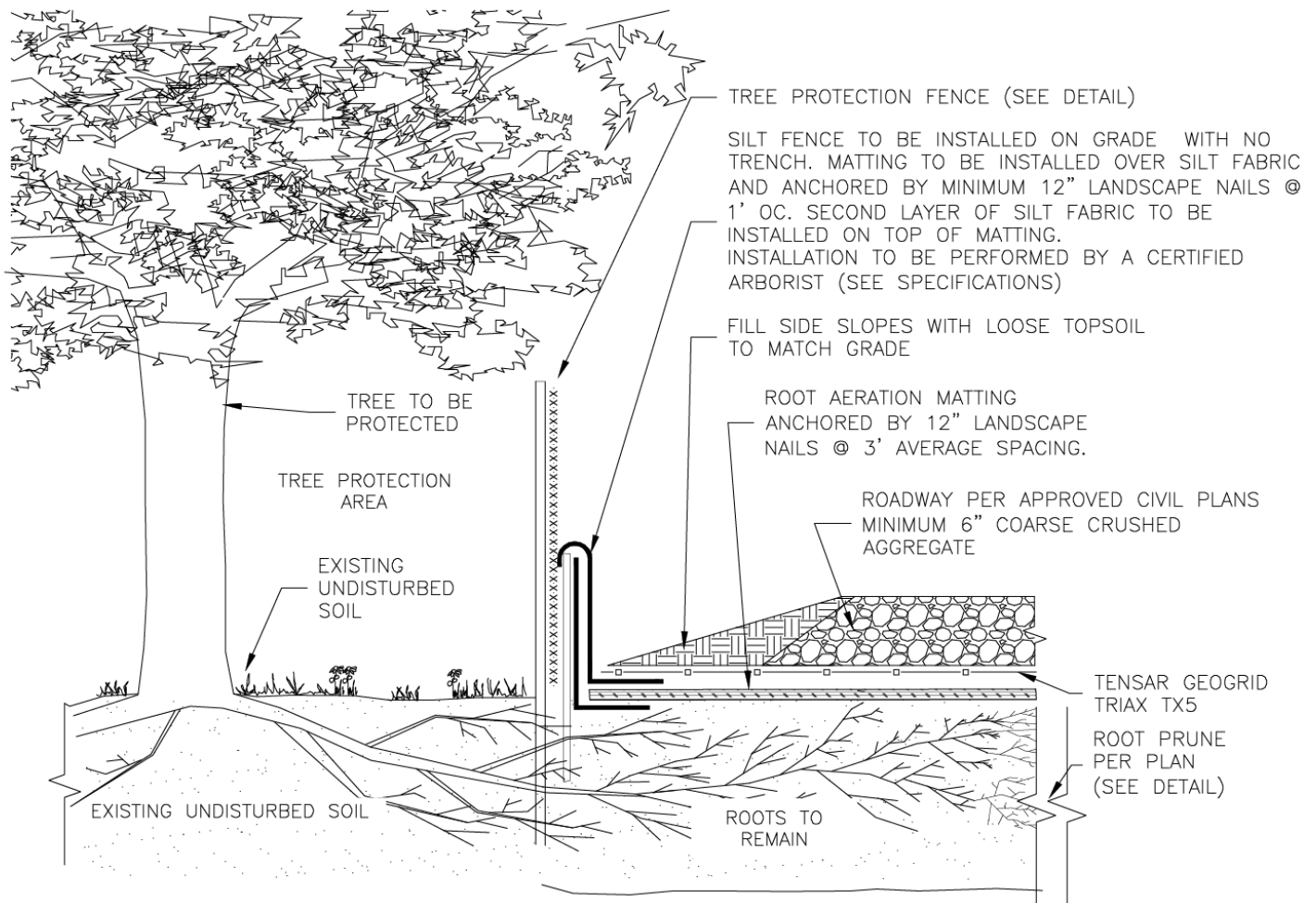
1. TRUNK WRAP MATERIAL SHALL BE DOUBLE SIDED GEOCOMPOSITE, GEONET CORE WITH NON-WOVEN COVERING (SUCH AS TENAX TENDRAIN 770/2) OR EQUIVALENT.
2. WRAP SHALL BE INSTALLED BY A CERTIFIED ARBORIST.
3. WRAP SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION.
4. WRAP SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. REMOVE WRAP ONLY WITH APPROVAL AND AFTER ALL SITE WORK HAS BEEN COMPLETED.
5. WRAP SHALL BE REMOVED PROMPTLY AFTER CONSTRUCTION.
6. MAJOR SCAFFOLD LIMBS MAY ALSO REQUIRE THIS PROTECTION AS DIRECTED BY THE PROJECT ARBORIST.

3
TP1

TREE TRUNK & LIMB PROTECTION WRAP (TYP)

SCALE: NTS





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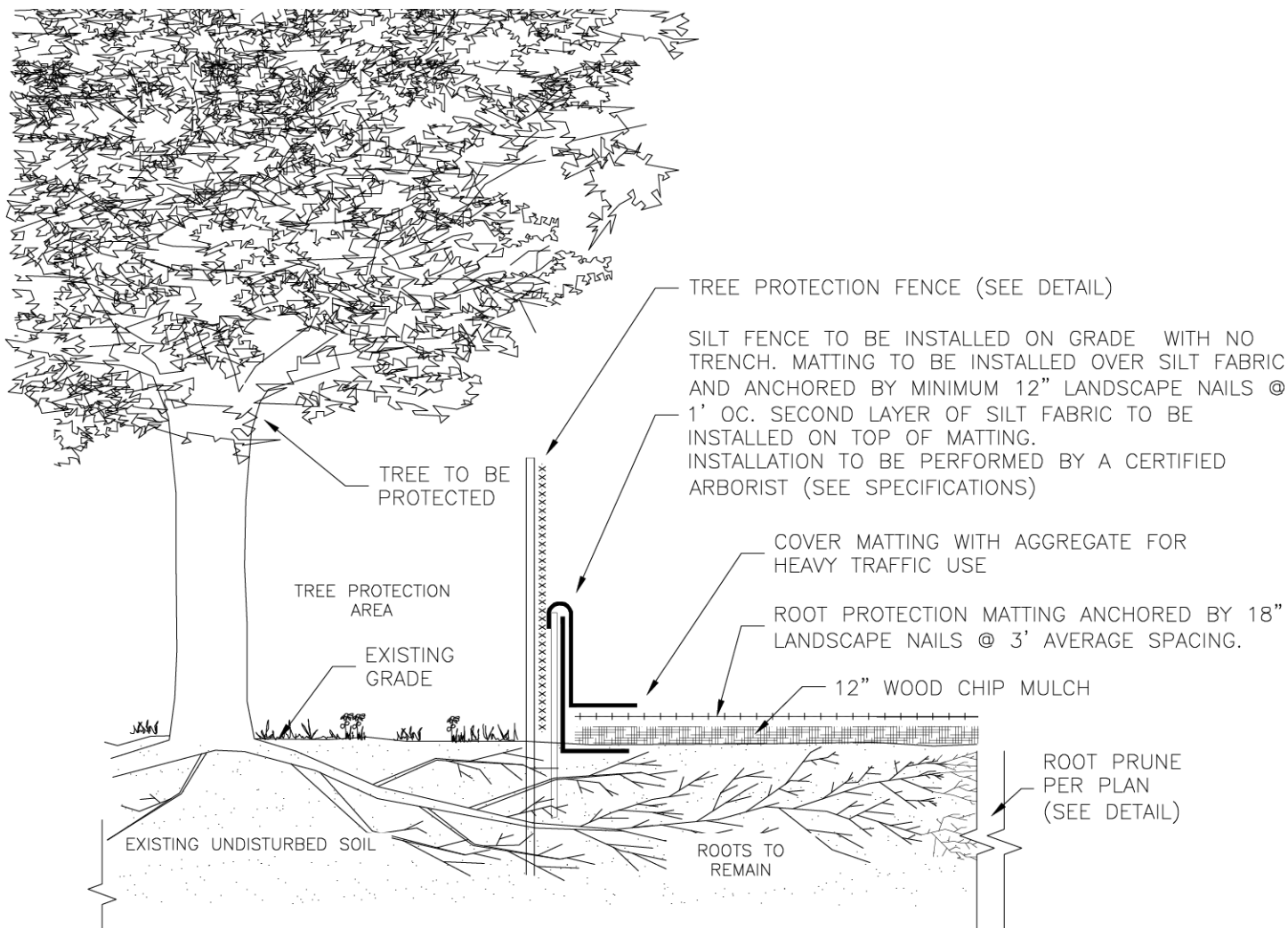
1. MATTING MATERIAL SHALL BE DOUBLE SIDED GEOCOMPOSITE, GEONET CORE WITH NON-WOVEN COVERING (SUCH AS TENAX TENDRAIN 770/2) OR APPROVED EQUIVALENT.
2. RAM SHALL BE ANCHORED BY 12" LANDSCAPE NAILS @ 3' AVERAGE SPACING.
3. RAM SHALL BE INSTALLED BY A CERTIFIED ARBORIST EXPERIENCED WITH THESE SYSTEMS.
4. ANY REQUIRED SITE PREPARATION/GRADING TO BE DONE USING SSAT TO MINIMIZE ROOT DAMAGE.
5. ALL ADJACENT WORK SHALL BE SUPERVISED BY CERTIFIED ARBORIST
6. GEOGRID SHALL BE TENSAR TRIAX TX5 OR APPROVED SUPERIOR.
7. AGGREGATE FILL SHALL BE TAPERED TO MATCH EXISTING GRADE WHOLLY ON RAM MATERIAL.
8. GEOGRID AND RAM PLACEMENTS SHALL BE OVERLAPPED BY 2'.
9. TOPSOIL MAY BE PLACED LOOSELY ON SIDE SLOPES AS REQUIRED TO MATCH GRADE. TOPSOIL SHALL NOT BE COMPACTED. RAM MUST EXTEND TO DAYLIGHT AND MAY BE TRIMMED AT FINAL TOE OF SLOPE.
10. SILT FENCE SHALL NOT BE TRENCHED AND MUST BE COORDINATED WITH ARBORIST FOR INSTALLATION.
11. EQUIPMENT/TRAFFIC SHALL NOT TRAVEL DIRECTLY ON RAM/GEOGRID. TRAFFIC MAY TRAVEL ON FINAL FILL ONLY.



ROOT AERATION MATTING WITH GEOGRID FOR ROADWAY (TYP)

SCALE: NTS





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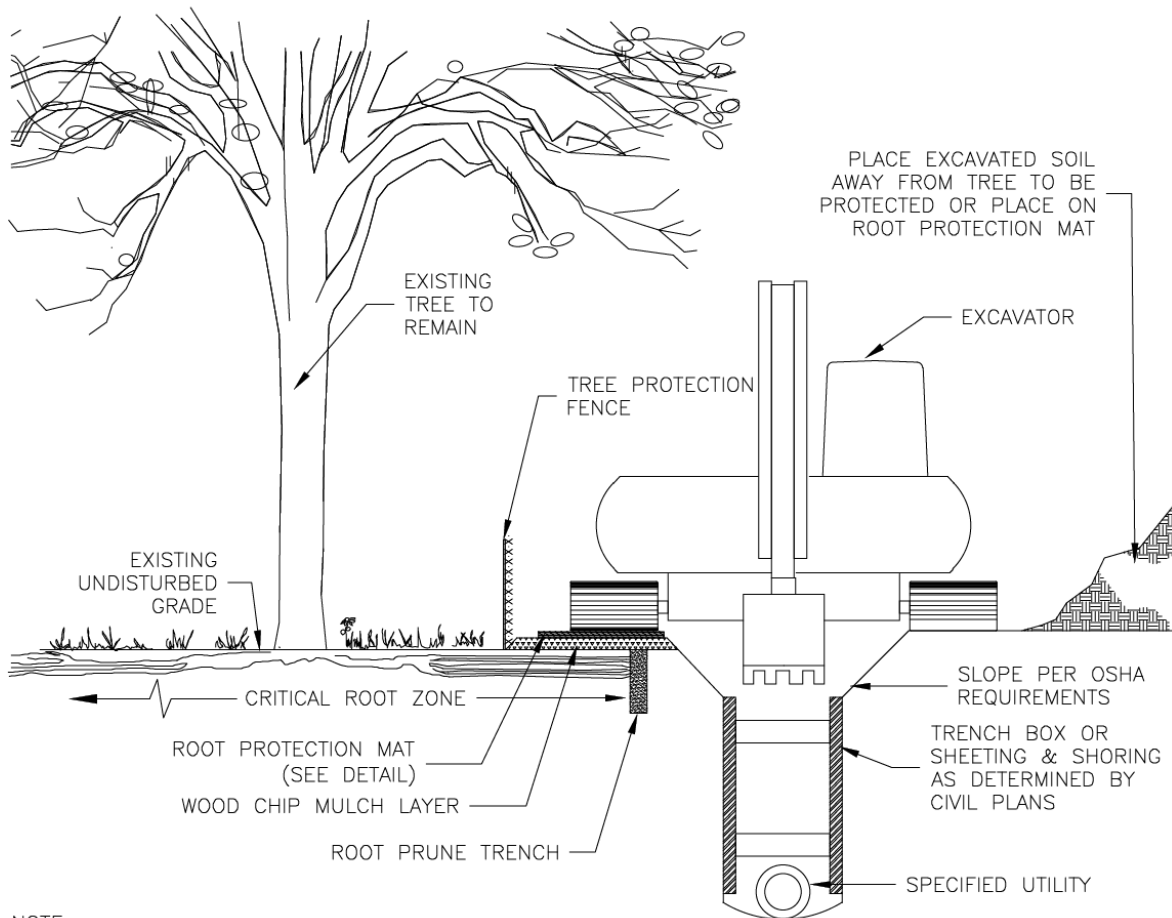
1. MATTING MATERIAL SHALL BE DOUBLE SIDED GEOCOMPOSITE, GEONET CORE WITH NON-WOVEN COVERING (SUCH AS TENAX TENDRAIN 770/2) OR APPROVED EQUIVALENT.
2. RPM SHALL BE INSTALLED BY A CERTIFIED ARBORIST.
3. TO BE USED FOR DESIGNATED TEMPORARY CONSTRUCTION ACCESS AND STOCKPILE AREAS.
4. MATTING SHALL BE PLACED ON 12" WOOD CHIP MULCH UNLESS OTHERWISE DIRECTED.
5. FOR HEAVY TRAFFIC AREAS, MATTING SHALL BE COVERED WITH 6-8" WELL GRADED CRUSHED AGGREGATE. ADDITIONAL LAYERS OF GEOTEXTILE MAY BE NEEDED.

5
TP1

TEMPORARY ROOT PROTECTION MATTING (TYPICAL)

SCALE: NTS





NOTE:

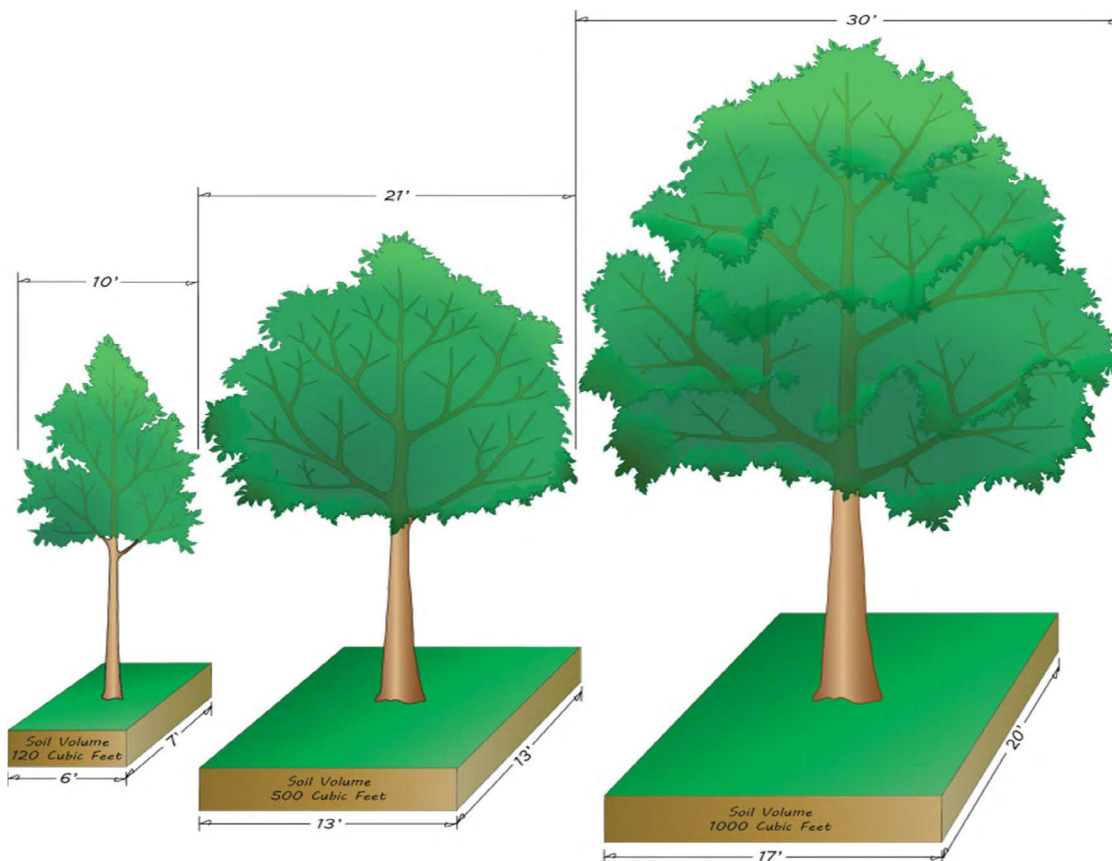
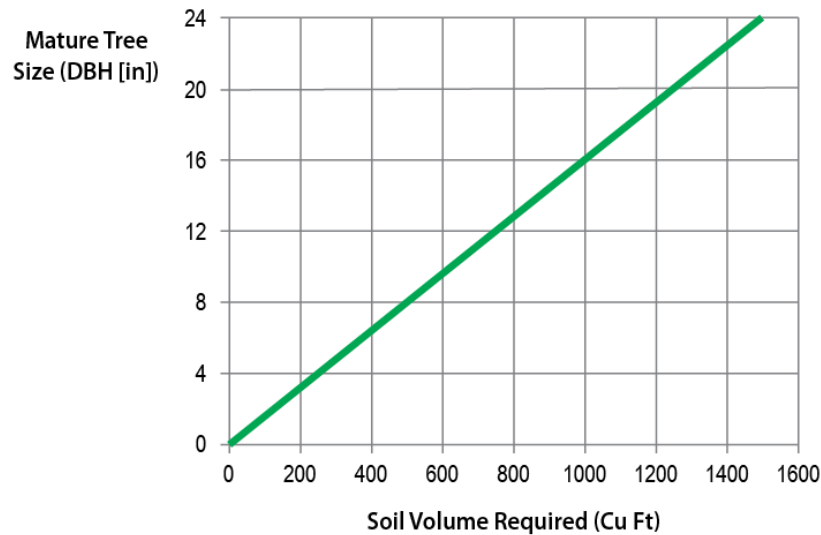
1. EXACT RPM DIMENSIONS TO BE DETERMINED BY PROJECT ARBORIST
2. ARBORIST TO COORDINATE WITH SITE SUPERINTENDENT FOR PIPE LAYOUT, DEPTH, SIZE OF EQUIPMENT, WIDTH OF TRENCH, AND OVERDIG TO DETERMINE LOCATION AND LAYOUT OF TREE PROTECTION.
3. ARBORIST TO COORDINATE WITH SITE SUPERINTENDENT FOR OVERHEAD CLEARANCE ISSUES. MAY REQUIRE SELECT PRUNING OR TEMPORARY GUYING.
4. ARBORIST TO MONITOR BACK FILL AND RESTORATION ADJACENT TO PROTECTED TREES.

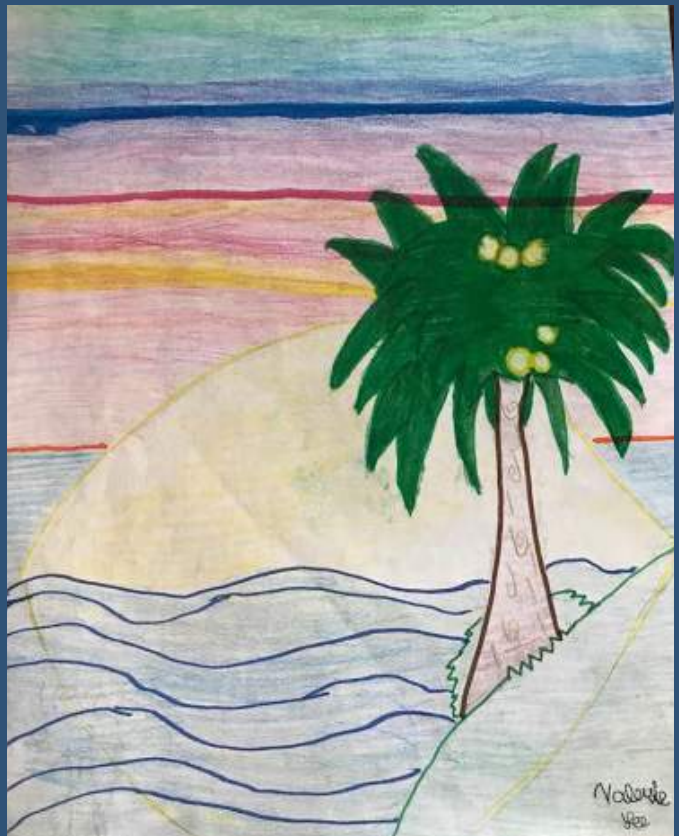
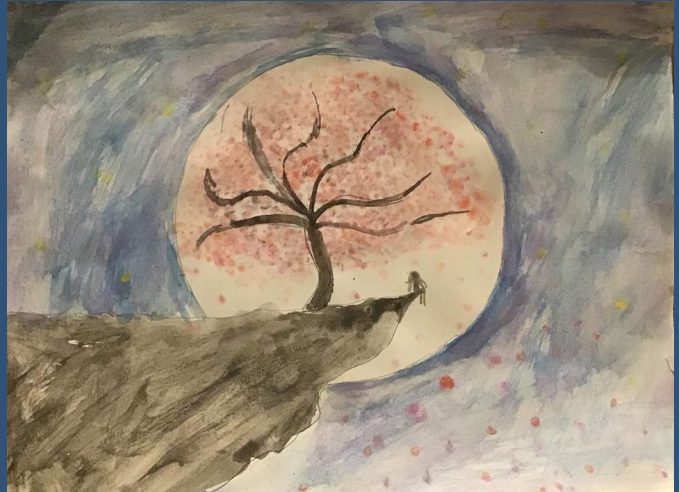
6 TP1	TREE PROTECTION FOR UNDERGROUND UTILITY (TYP) SCALE: NTS
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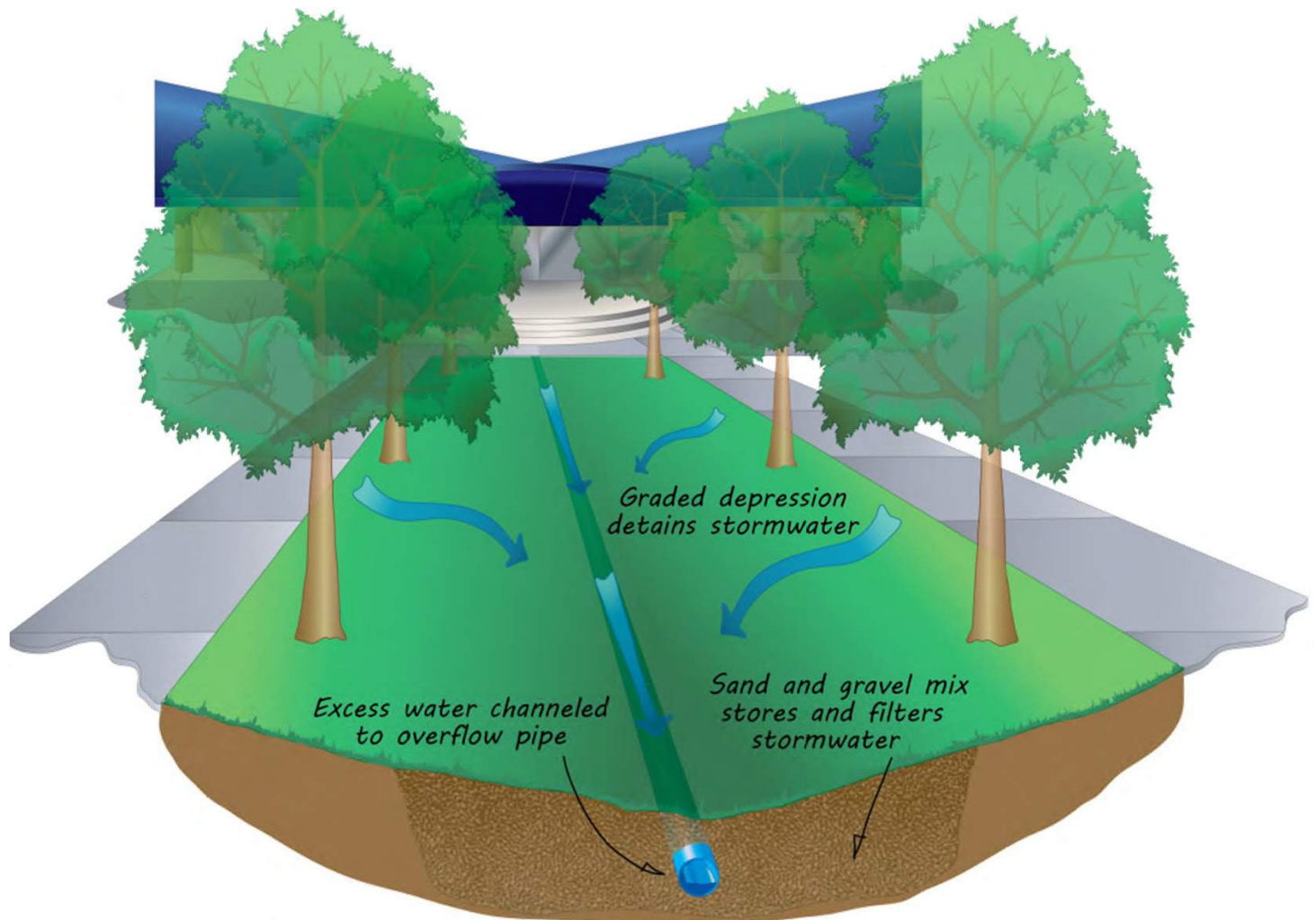
Appendix F: Soil Volume and Tree Stature

Tree growth is limited by soil volume. Larger stature trees require larger volumes of uncompacted soil to reach mature size and canopy spread (Casey Trees, 2008).





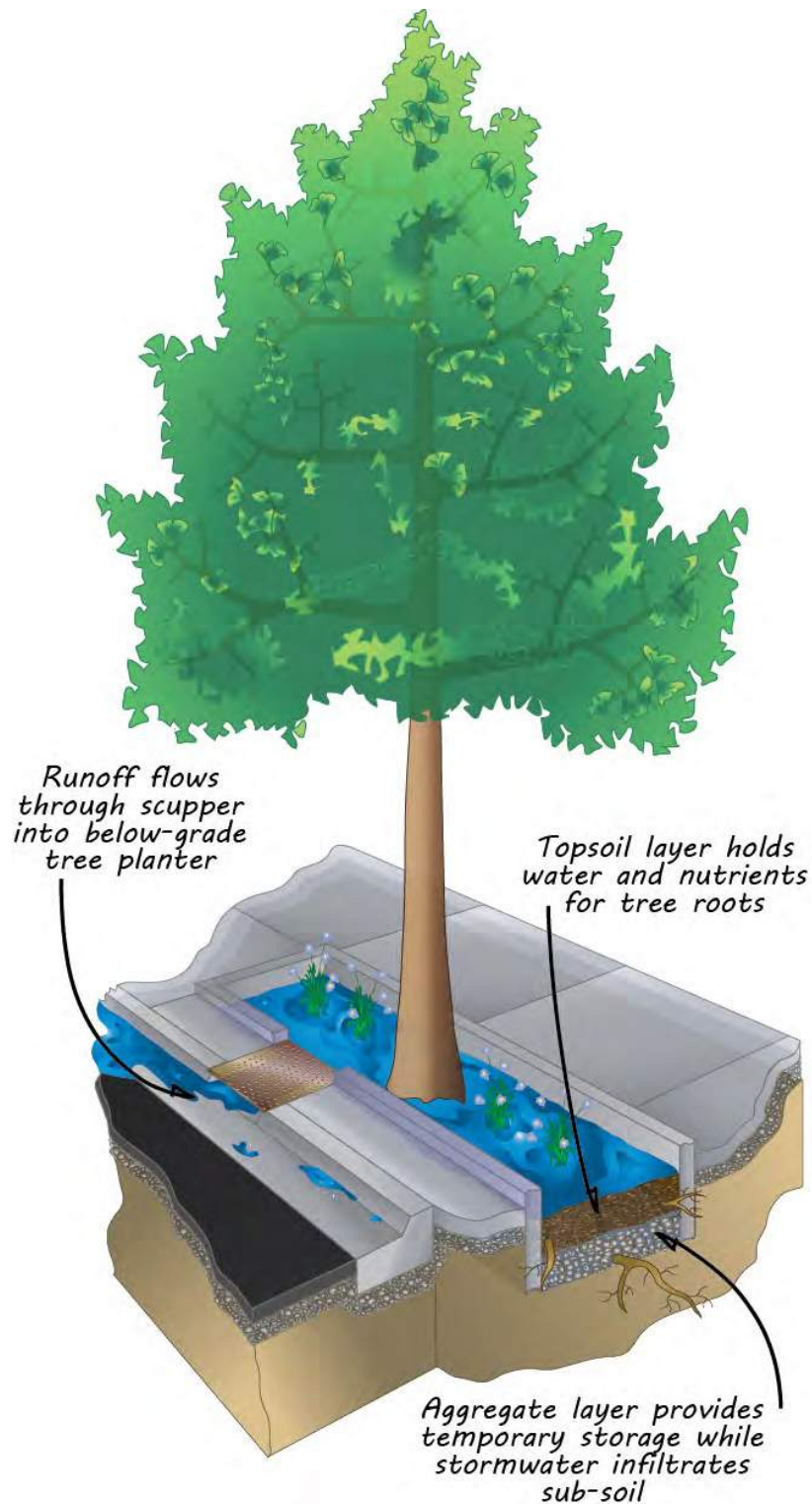
Appendix G: Alternative Planter Designs



Increased soil volume and vegetation, including trees, maximizes potential for absorption, bioremediation, and phytoremediation

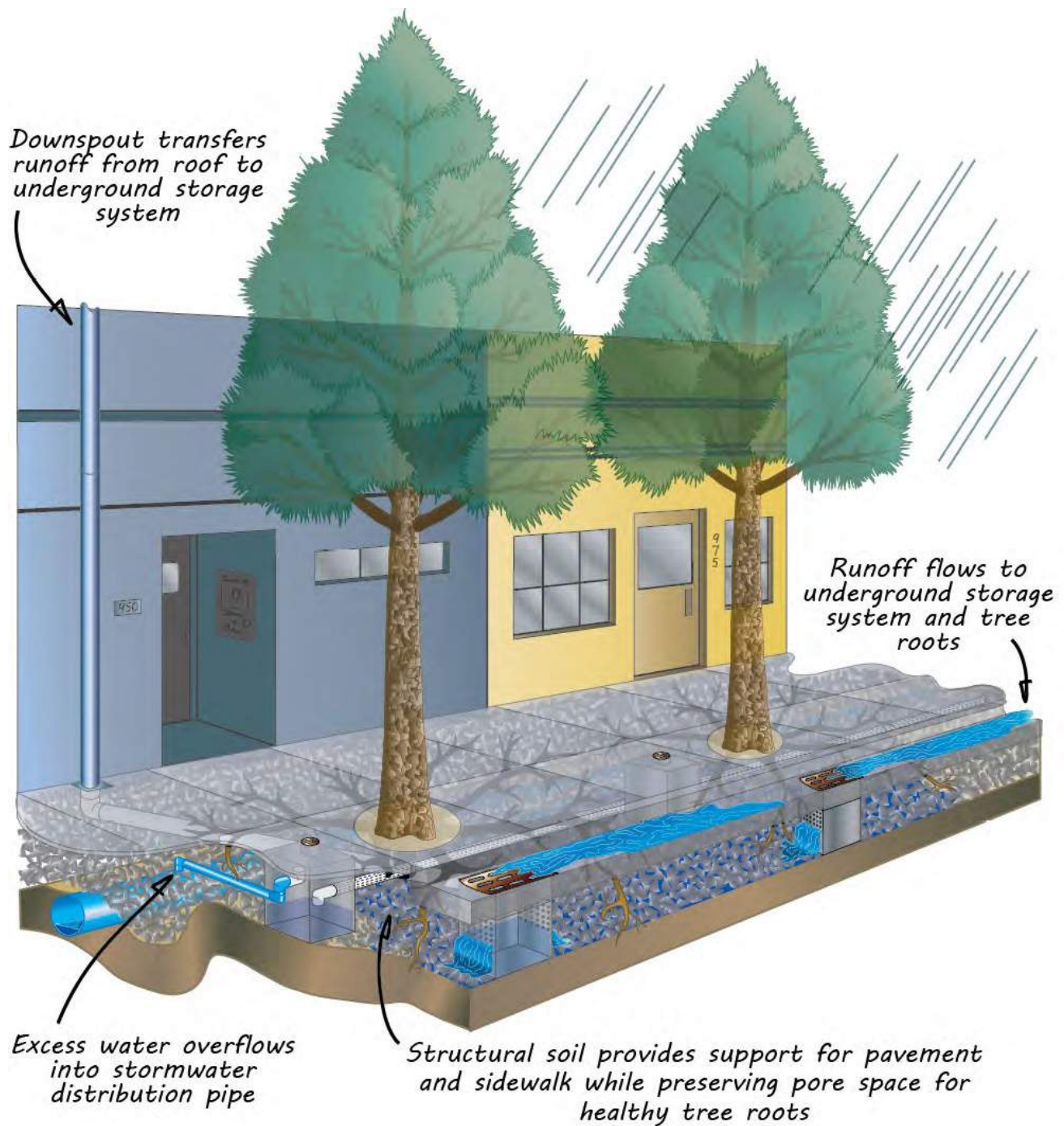
Above: Bioswales are landscaped drainage areas with gently sloped sides designed to provide temporary storage while runoff infiltrates the soil. They reduce off-site runoff and trap pollutants and silt.





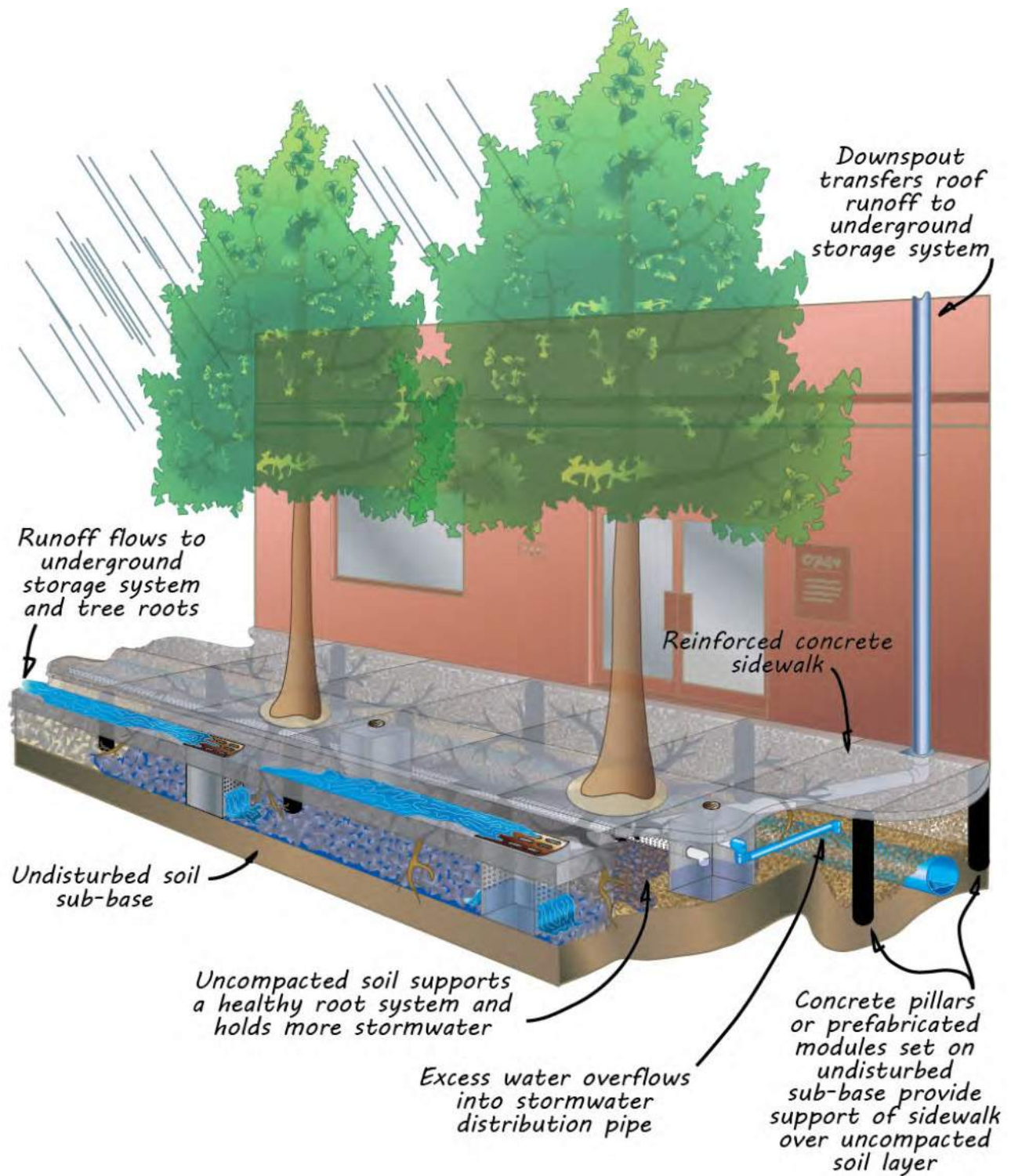
Above: Stormwater tree pits are designed to collect runoff from streets, parking lots, and other impervious areas. Stormwater is directed into scuppers that flow into below-grade planters that then allow stormwater to infiltrate soils to supplement irrigation.





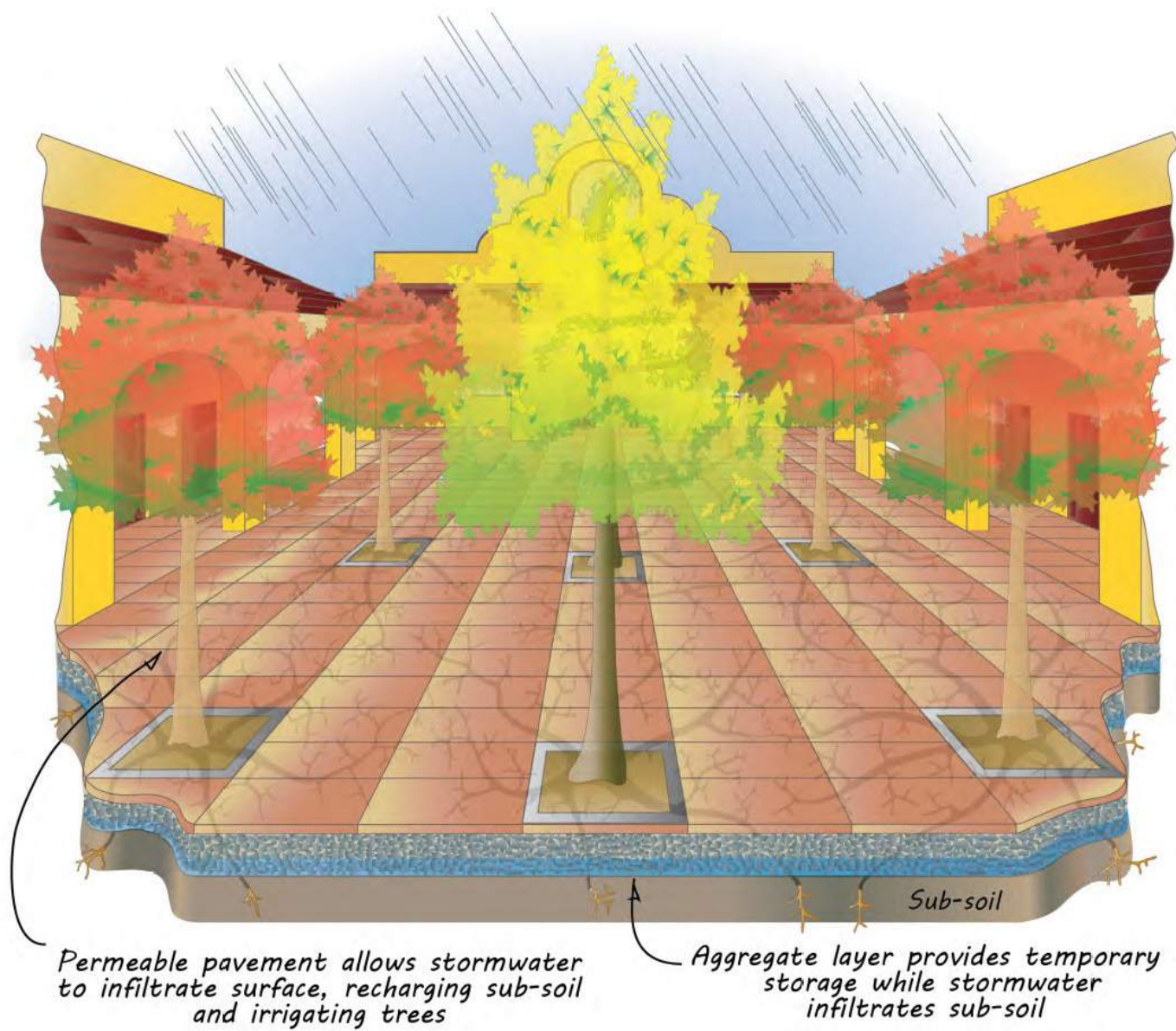
Above: Structural soil is a highly porous, engineered aggregate mix, designed for use under asphalt and concrete as a load-bearing and leveling layer. The created spaces allow for water infiltration and storage, in addition to root growth.





Above: Suspended sidewalks use pillars or structured cell systems to support reinforced concrete, increasing the volume of uncompacted soil in subsurface planting areas and enhancing both root growth and stormwater storage.





Above: Permeable pavements allow stormwater and oxygen to infiltrate the surface, promoting tree health and groundwater recharge.



Appendix H: Community Survey

1. Trees are important to the quality of life in Garden Grove.

	Response %	Response Count
Very true	93.1	285
True	5.9	18
Not sure	0.3	1
Not true	0.3	1
Definitely, not true	0.3	1
Total		306 (0 skipped)

2. Trees provide numerous benefits to the community and the environment. Understanding which benefits are most appreciated by residents can help guide long-term management strategies. Which benefits provided by trees do you value most? Please select the top three (3) benefits.

	Response %	Response Count
Improved air quality	68.3	209
Bird, butterfly, other wildlife habitat	55.9	171
Privacy/screening	8.8	27
Energy savings	8.5	26
Increased property values	15.0	46
Reduced greenhouse gases	27.5	84
Improved human health	31.7	97
Reductions in stormwater	3.6	11
Improved water quality	2.3	7
Shade	37.6	115
Noise buffering	10.1	31
Aesthetics	27.8	85
Other (please specify)	2.9	9
A tribute to California agricultural past		
All of the above		
All of the above! They are essential! Please keep Riverview a natural green setting. Do not develop it into another concrete monstrosity.		
Climbing		
Fruit		
Fruit bearing		
None		
Oxygen		
The idea that is not just helping us humans survive but helping our birds, bugs, butterfly's etc. ; not only that but keeps our environment clean and safe the animals we have here in garden grove.		
Total		306 (0 skipped)



3. Optional. Use this space to provide additional comments on the benefits of Garden Grove's trees.

- Can we add additional trees to our background
- 30 years ago, my mother visited Garden Grove during her travels to the US from Australia, where she had citizenship. The greenery and community informed her decision to immigrate here in 2009, yet she tells me of the disappointment with the increased urbanization she saw compared to her initial impression of Garden Grove. We are both residents who value nature and greenery, and want to see a future Garden Grove that places community gardens, parks, conservation, horticulture, and the community cultivating these values at its pride.
- A city called garden grove has ugly mixed match random gardens. Poor watering system and no landscape services.
- A focus on indigenous trees and other plants is important. The birds and insects from this area cannot often make use of non native plants as food. It would be nice to restore the native environment and limit artificial irrigation to establishing new plants.
- a good variety of trees makes our city beautiful and provides homes for many types of wildlife that are needed to keep our city green and exciting
- A green area foe walking would be great!
- Adding the right trees will help. Or cherry blossom like in Washington DC. This will represent our community well, among other trees.
- Aesthetic
- All the options above apply. I'm just unable to check them all.
- Beautifies the city
- Beautiful
- Beautify the city
- Beauty
- Beauty increases property value and attract visitors
- Beauty, property value, tons more
- Besides additional trees, the city should have as part of its building permits large amounts of green space between street and buildings if for nothing else, than to help with water retention.
- Better air quality and much needed greenery, shade and a haven for wildlife. We need more trees and greenery to mitigate the concrete and urban atmosphere that is pervasive in Garden Grove.
- Breaks up the monotony of buildings
- can be better place to visit with family.
- City beautification
- Drainage, shade, aesthetic value as well as reduced energy costs . Beautify city getting rid of concrete sprawl appearance. Allows shade and cleaner air for all but promotes more foot traffic.
- Focus on improving city safety instead
- Fruit trees could also benefit food banks.
- GG is in desperate need of more green open space. It's such a shitty city right now. No trails. Nothing. Need more parks!!!
- Green Peace!
- Have lived in GG my whole life. Would LOVE to beautify our city, but I am very concerned about the safety of this new endeavor. I foresee people sleeping in this urban forest, leaving discarded needles, trash, danger.
- Help cool down the city during summer
- Help reduce heat
- Help to detract from unsightly back yards and alleys, maybe encourage property owners to maintain their space.



- Hopefully will stop over building!
- How beautiful it is looking out and seeing green trees vs building structures,
- I am so excited to hear of this urban forest plan! I think trees provide an overall peaceful feel to a city so I'm excited to see more of that around the city.
- I am very happy that the city of Garden Grove is doing this project. Bring Garden Grove back to what it once was many years ago.
- I like trees
- I lived on Morrie Ln as a kid and still live in the city. As kids we played at the tracks between lampson & Brookhurst. We had a lot of fun there! It would be nice if today's kids had a place better than a dirt path to play in.
- I love the idea of implementing smart concepts that have numerous benefits such as natural drainage & bioswales, cutaway curbs for medians that are planted as raingardens that prevent/minimize intersection flooding & run-off, planting trees/plants that are native to this area & help restore the ecosystem while being drought-tolerant, planting native trees that are allowed to grow tall & provide habitat for predatory birds that keep rodent populations down, etc. I also like the idea of public streets including beautiful design that creates a calming effect on people.
- I love the large trees in the city. My street is lined with Chinese Elm and try are beautiful. Plant more large trees. Coast live oaks are important to the native wildlife
- I noticed a bulk of these trees are slated for the PE right if way. Isn't that a bit short sighted given the likelihood the OC Streetcar and MTA plans will likely link by building rail here within a decade of planting these trees?
- I will be Garden Grove instead f Garbage Grove.
- I would also say trees provide a sense a peace as we balance our daily rush rush lives with the serene beauty of nature.
- I would love to see GG parks adopt the idea of food forests in our public spaces to help feed our hungry neighbors, organize collection for local food banks, and all the other benefits trees bring.
- I'm China the cherry blossom tree shows a lot of different meanings. Us in Garden Grove CA can have different kinds of free even if they come from different cultures. This shows we are open to any idea of different plants and tree in order to have us citizens happy and feel welcome in our home. The trees provide so much for us that we should not take advantage of them but help them survive in new climate with global warming it's hard to keep trees and plants alive now but this shows we just need to put in a little more effort.
- If you look at a city like Irvine, there is no reason (except budget) why we should not be green and beautiful like that type of city. We need more clean air which means more green!
- Improve health
- Investment in nature in our city is important and related to see this come to fruition.
- It all depends on where and how. And how they are maintained.
- It makes our city more aesthetically pleasing.
- it nice to walk around and have some shade and fresh air
- It provides more nature into an urban area without many scenic nature views
- It seems important to plant more native plants, but trees especially as they tend to be the apex of plant life.
- It will encourage residents to go outside, enjoy the scenery, and appreciate the landscape. We don't have a lot of beautiful areas that create this level of appreciation that more folks could enjoy.
- It would work best in very busy commercial intersections to counteract the impact of so many cars in that area (ie. Westminster Blvd and Brookhurst St).
- Let's beautify the city!
- Living in a forest (albeit an artificial one) is a delight compared to living in a desert.
- Look at other cities such as mission Viejo and how it has enhanced the community
- Looks nice



- make people relax when see trees
- Makes our habitat more pleasant
- Many dog walkers appreciate the trees for tree cover.
- Mature, well-placed trees can offer benefits for generations.
- More nature walks and time with the family
- More trees and butterfly friendly habitat improve our quality of life as well as encourage outdoor exercise.
- More trees will contribute to the "Garden Grove" look.
- N/a
- Na
- Nature makes us feel more human
- On our Purdy St they put in the worst messiest trees ever. Every season left a bug mess. The city cut some down and never replaced them. The street looks so empty and plain without some nice trees. Will we ever get them again???
- Our city should live up to its name and not become cement city. Greenery is important to mental and physical health.
- Our properties in West Grove would look so much nicer with more trees, but neighbors keep cutting them down as nuisance
- Please create a residential city tree program like Riverside, Ca.
- Please plant more trees!
- Quality of Life
- Reduce crime. Emphasize use of natives like scrub oak and Coast live Oak
- Reduces heat island effect
- Seriously? Trees were here before humans. They are worth every penny imaginable.
- Shade, aesthetics, depends on the type of tree- privacy
- Thank you for focusing on this important issue!!
- The city should encourage property owners in Garden Grove to plant trees by offering help purchasing them at a discount. Maybe even provide help planting the trees on their property.
- The percent of quality green space in Garden Grove is incrementally diminishing with no consistent replenishment seen on the horizon. This would be a welcome relief for our beleaguered city. Garden Grove...where's the garden...where's the grove?????
- The trees can help us to get shade and more green
- The trees on our street is what made us buy the house 15 years ago.
- They are also very helpful in providing learning opportunities for underserved communities when local wildlife interact with the trees.
- They are beautiful and needed
- They provide an all around improved quality of life.
- TheyCities name is Garden Grove so shouldn't have lots of trees
- This is an excited time to hear the city of Garden Grove investing in trees for the community. Trees will provide better landscape and more air quality.
- This is going to bring out so many people as there will finally be something different to look forward to in Garden Grove!
- This will go a long way in improving Garden Grove.
- To have nice landscape n to provide air quality
- To make our vity feel and seem more homey, friendly, and inviting
- Tree lined streets are so lovely and makes communities look rich, even if they are not.



- Trees = Life
- Trees also add shade and make a statement. We would never buy a home on a barren street.
- Trees also improve property values as nice trees will also make the city more appealing
- Trees are beautiful. More trees please. Fruit trees would be amazing.
- Trees are calming and add beauty to our community
- Trees are life
- Trees are life
- Trees are life
- Trees benefit overall health
- Trees help alleviate impact of noise and air pollution from the 22 fwy.
- Trees increase the beauty of the city and should be everywhere.
- Trees lower greenhouse effects, improve air quality and provide Shaw as well as beauty.
- Trees require maintenance but the benefits are worth the resources.
- Trees show that garden grove cares about its community and residents with beautiful and fu yup so trees
- Trees that are esthetically pleasing would be nice. The type that are mostly green and do not leave too much trash behind.
- Trees would help "soften" the visual environment of our city.
- Tress are needed! For life. We need trees
- Tribute to the past garden grove
- Two concerns. 1. Addressing water conservation at the same time, understanding our arid climate and being responsible to the changing water supply, 2. Connections/integration with greenways to the ocean, river trails would add great value for all
- Vegetable and fruit trees feed our community in a healthy manner!!
- Walkable Garden Grove Streets
- Walking paths
- We could use more nice trees that provide shade for our streets. We could also consider converting overhead power lines for power and street lighting to underground placement. This would avoid the problem of trees growing into the lines.
- We desperately need more trees in our city.
- we have fresh air in the park.
- We need more trees! We also need to carefully trim trees rather than completely cutting them down to branches
- We need this forest!
- We need to avoid trees unfriendly because of roots to sidewalks
- We need trees but a city tree is tearing up my sidewalk and driveway. Big problem
- We purchased our house 50 years ago partially because of the tree lined street. Through the years we have valued the shade, the beauty, the birds and every aspect of Garden Grove trees. I mourn as I drive down the city streets and see tree after tree removed. It takes years to grow replacements. I strongly urge Garden Grove decision makers to plant more and more trees in our city!!! Thank you for caring for the stately, beautiful trees we have!
- Well kept trees making area more pleasing to living.
- West Garden Grove needs more residential trees
- Why aren't there fruit trees being grown?
- Will help beautify the city's landscape
- With the city name being Garden Grove, one would think it would be a very green city.



4. Are there enough trees in Garden Grove?

	Response %	Response Count
Yes, there are enough trees	2.4	7
No, there are not enough trees	89.2	263
There are too many trees	0.3	1
Not sure	8.1	24
Total		295 (11 skipped)

5. Where would you like to see more trees planted? Select your top three (3) areas.

	Response %	Response Count
Parks	61.0	180
Retail/Commercial areas	45.8	135
Private property	30.2	89
Streets	74.6	220
Trails	40.3	119
Schools	43.1	127
Other (please specify)	5.1	15
All of the above!		
along all street with or without sidewalks		
Along Springdale and Chapman. The bushes are dying and privacy to those home is extremely important, especially with children.		
Any open space		
By "streets", I mean the parkway strips along the sidewalks.		
Everywhere. Make it mandatory at shopping centers.		
Garden Grove Park		
In neighborhoods instead of removing our trees in front of our houses!!		
Nature center or path in the city		
near bus stops		
On the city side of the sidewalks in front of our homes with nearby property owner permission		
On the side of freeways where its mostly dirt and litter		
The CORRECT types of trees should be planted along sidewalks and along thoroughfares in this city. Through the years, there apparently have been too many, mostly "cheaper" trees planted that guzzle water, destroy sidewalks, and do absolutely nothing to improve habitat for NATIVE wildlife, birds, butterflies, etc		
There are enough! Too many pulling up sidewalks and streets		
Trees and other plants should be planted in vacated or city owned plots. It will look nicer and also contribute to the over all health of residents.		
Total		295 (11 skipped)



6. What canopy goal should Garden Grove adopt?

	Response %	Response Count
15%	66.2	217
10%	11.9	39
8%, no net-loss / maintain the current level of canopy cover	3.4	11
Other (please specify)	18.6	61
20%		
20%		
20 %		
20%		
20%		
20%		
25%		
25%		
29%		
30%		
40%		
40%		
50%		
20 to 25% canopy		
20%.		
20-25%		
30% or more. We have far too few trees in our city. Disneyland has more trees than our city.		
35% is an attainable goal to achieve better health.		
50% We're named Garden Grove. Why is it a misnomer?		
As great a canopy as is possible while incorporating smart and beautiful design that also allows for enough light (dappled, choice of tree for specific areas, etc.) to grow as much (safe, non-poisonous) native plants species as possible...greater than 15%		
As much as feasible, 15% minimum		
as much as is feasible		
at least		
Don't know		
Follow Fullerton and Orange for older cities with trees		
I would encourage as high a percentage as possible. We should not be happy reaching a goal of some %. That just encourages us to stop planting when we reach it.		
I'm too ignorant on ideal canopy covers for particular milieus.		
Minimum 17%		
more if posible		
no opinion		
Should be similar to mission vijeo		
the Jacarandas are all dying and messy. Replant in front of homes. Advertise more		
The more, the better		
Total		295 (11 skipped)



7. Optional. Please use this space for any additional comments about canopy cover in Garden Grove.

- 15% minimum
- A large Eucalyptus tree was recently removed from our street and there was no replacement...There is now a barren spot where the stump was ground down. Make this city green (like other well highly regarded cities i.e. Laguna Niguel, Pasadena, Yorba Linda and more).
- Add tree canopy to the new bike path on the Pacific Electric Right-of-way
- Bike trails should be ample distant and well shaded. The trail on Stanford is a waste of money and never ever utilized by the locals and unsafe for families.
- Canopies can cool the climate and help reduce cooling cost in homes and businesses
- Canopies provide shade and aesthetics. Please plant more.
- City should mandate new construction to reserve a large percentage of street frontage property be lined with flora. Required in all high valued areas in Orange County.
- Community gardens would also be a good spot for more trees
- Elaborated in a prior response
- Employ more traffic diet strategies to create more spaces to plant more trees.
- Garden Grove is very plain and landscaping is needed to improve the look of the city. It's needs a cleaning as well. Remove old trees that doesn't fit to the overall city aesthetic. Lots of people needs to clean and cut their front and backyard tree as well
- Garden Grove leads the Nation as Tree City
- Garden Grove Park is very sparse. If we could add more trees, with a paved path for strollers & wheelchairs and picnic tables, more residents can enjoy that park.
- Garden Grove should become known for its large number of trees
- Great protection for seniors from sun heat
- I agree we should have more canopy. Thank you!!
- I feel that there should be more opportunities for canopy covers especially for summer months. This includes retail spaces like the Promenade off Chapman Ave, Main St, etc.
- I have lived in GG from 20 years and have seen many trees removed, especially in residential neighborhoods but have seen very few new trees planted. I would like to see this change.
- I know that a lot of the hesitation about trees is always a concern that they will damage a property in the case of wind or storms. If there was a way to alleviate those fears I think people would be more excited about increasing the number of trees.
- I think it's great that we have this but too much of everything can over power and dominate and I don't think we want that
- I would encourage the city to plant trees along streets in the city to provide shade for cooler temperatures and cleaner air.
- If nearby communities have an average of 14% canopy cover, we must aim to reach BEYOND that. It is disappointing that Garden Grove is at the low end of this range.
- It would be lovely to see more native trees that provide greater canopy such as oaks and pines as well as colorful trees such as sycamores. Variety is beautiful. It would be AWESOME if ALL palms were to be removed from city, county, & public spaces to allow native trees to replace them & provide greater canopy coverage, be drought-tolerant, and benefit this ecosystem.
- It's nice to have some park space without trees (for kite flying) but more trees overall are welcome. It makes the neighborhoods look nicer to have large beautiful trees on the parking strip
- It's axiomatic that if we are trying to create an urban forest we adopt canopy coverage minimums that at least reflect the baseline of coverage of a park. Our city should put forward best efforts to maximize the amount of carbon sequestration that takes place during this project.



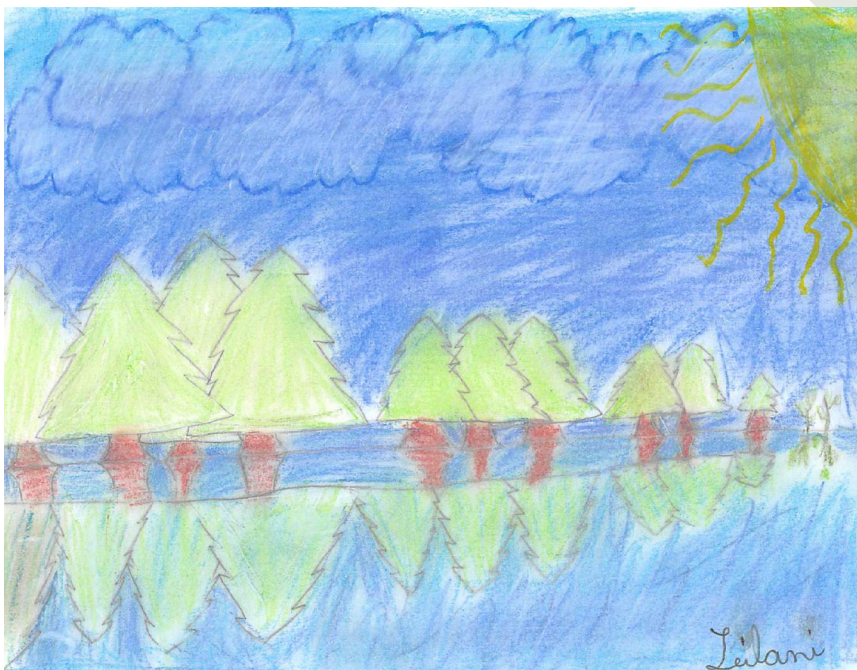
- I've lived here 35 years, and GG has gotten uglier and uglier. We keep cutting down mature trees and replacing them with little twigs (or don't replace them at all). None of the street trees that blew down in storms in the last 5 years have been replaced. :(
- Let's live up to the name of our city. Let's put the garden and the grove back in Garden Grove!!
- Library
- Like to see more canopy at the park where the kid play ground n exercise equipment
- Make a difference in climate and public health
- More flowering trees
- More trees please in West Garden Grove
- more tress on sidewalks and near bus stops and commercial center with more trees
- NA
- NA
- Need education to GG about importance of greenery
- None
- PARTNER WITH OTHER GOVERMENT LIKE OCTA/PRIVATE FUND BY GGCF LEADER TO ACCEPT DONATIONS EVEN A BRICK BY BRICK DONATION DOLLAR TAX WRITE OFF
- Plant tree canopies in the correct locations, if space is limited, small canopies, if space is open, large canopies.
- private areas
- Remove the tall ugly non native palms that provide no shade and make a mess with dropping seeds. Plus they do not provide wildlife much of a habitats except for rats and sometimes crows.
- Should not be near power lines. Ones that have the least amount of debris fallout
- Spread idea to other cities...corridor of trees for wildlife.
- Stop building houses and ADU's
- Studies show crime goes down with more nature
- Thank you for this opportunity
- The benefits are immense! We should go above and beyond a proposed 15%
- The city doesn't need to be a forest, but places for birds and insects to live, plus, provides natural cooling via shade. Dappled light is best, and ideally not more Jacaranda trees!!
- The city needs to strive for the Arbor Foundation's "Tree-City USA" designation
- The mini park, 76, on Lampson and Brookhurst is an excellent example of drought resistant and butterfly friendly plants with large, established trees.
- The more canopy we can achieve, the better for us all. Trees beautify areas.
- The more the better
- The more the better!!!!
- The shade is nice on a hot day
- The sooner the better, we need to grow more trees while we can
- The streets with canopy cover are the prettiest of all. But when you choose trees please use those that have a beautiful benefit such as colorful fall leaves such as chinese pistache or flowers like crepe myrtle. Forget the ones planted on 9th street. They have some kind of nuts that drop and people fall on them. So dirty and such a nuisance .
- There are a lot of tree just not enough
- There is not enough canopy in garden grove. Every home should have at least one or two trees in front of the house. Owners cannot cut down mature trees in the house.



- To realize anything like that photo (which is probably taken where there is three times the rain So Cal gets), the city will need to maintain an adequate water supply to the area.
- Trees and greenery cool the land and actually conserve water. We are closer to being a costal area more than a dry arid land. Being back trees!!
- Trees are not trimmed properly...they are butchered. Trees should be allowed to grow in a manner that they look natural and offer a good size canopy.
- Trees reduce green house gas
- We need more
- We need more trees planted on residential streets in West Garden Grove
- We need more trees! :)
- We need shade to reduce energy costs
- We need to double our existing canopy
- We need trees, more greenery and the canopy is a great idea .
- What
- Will there be resources to clean up the leaves/maintenance? Clogged storm drains from leaves? Tree trimming?
- Would be nice as a resident to have credits for % cover relative to a residential goal.
- Would like to see it doubled, of what we currently have.

8. Do you support the petition process for the removal of public trees that are otherwise healthy?

	Response %	Response Count
Yes	30.6	88
No	35.4	102
Not sure	11.8	34
Need more information	22.2	64
Total		288 (18 skipped)



9. Garden Grove Municipal Code requires the removal of dead, decayed, diseased or hazardous trees on public and private property. For public trees, Code prohibits releasing pollutants that are harmful to trees, restricts electrical wires from coming into contact with trees, and outlines tree protections during construction. What other items would you like to see revised or defined in future tree protection policy (public trees)? Please check all that apply.

	Response %	Response Count
Higher standards for removal	36.8	106
Replacement requirements	66.3	191
Fines for illegal removals	43.1	124
I am satisfied with the current Municipal Code	19.1	55
None of the above	3.8	11
Other (please specify)	6.6	19
Aesthetic reasoning should not be enough to remove a tree.		
And		
Education		
Greater standards for tree trimming as well		
I don't feel sufficiently informed to choose the best answer here. Please educate us further.		
If roots disrupt sidewalks the trees might need to be moved, if no other option, but replacement tree should be planted.		
If you want a healthy public tree removed you should be required to replace the tree or, pay a fine equal to the cost of replacement. Public trees are just that, public, and the money used to plant them is also public, ergo, the public at large is losing the benefit of the tree, and the city increases its carbon foot print in its removal.		
indigenous species, more regular maintenance, sidewalk/road/parking lot issues		
is there a list of approved tress what are the costs		
Need to force people to clean their backyard trees		
Private trees should not negatively public space, or city appeal		
Putting electrical wires underground		
Remove ALL palms & invasive water-guzzlers. Plant native trees that provide as much canopy as possible to reduce heat, clean the air, provide habitat for native species...& do so in a well-designed, beautiful way.		
Replacement tree must have a similar canopy		
Some trees present safety hazards such as regular falling palm fronds		
The trees should be replaced with other trees.		
W		
When a tree is removed from a city parkway in front of a house, a tree should be REQUIRED to be replaced. It should not be left to the resident to refuse a replacement but rather ONLY to chose what tree type to have replanted.		
Wildlife preservation.		
Total		288 (18 skipped)



10. If a public tree is removed, do you support the requirement to replace the tree or an optional contribution to a tree fund?

	Response %	Response Count
Yes	76.7	221
No	4.9	14
Not sure	7.6	22
Need more information	10.8	31
Total		288 (18 skipped)

11. Do you support fines for illegal removal of public trees?

	Response %	Response Count
Yes	74.3	214
No	8.0	23
Not sure	11.5	33
Need more information	6.3	18
Total		288 (18 skipped)

12. Would you support stronger standards for the issuance of tree removal permits?

	Response %	Response Count
Yes	51.4	148
No	13.2	38
Not sure	16.0	46
Need more information	19.4	56
Total		288 (18 skipped)



13. Describe your awareness and/or interactions with Garden Grove's urban forest program.
Please check all that apply.

	Response %	Response Count
I was aware that the city responds to tree emergencies.	38.2	108
I have seen City crews working on trees.	65.4	185
I have used the city website or called for tree information.	14.5	41
I did not know that the city had a program to care for trees.	37.5	106
I have read about the program in city-wide newsletters.	8.1	23
Other (please specify)	3.5	10
adopting a tree or purchasing a city tree is not something that I think is publicized enough. when I purchased my two trees I had several neighbors excited to hear about it.		
City crews have responded to tree emergencies at my home and i have interacted with them. They are wonderful.		
I hadn't noticed, but naturally assume tree maintainance is regular		
I have had a tree removed and cooperated in the replacement program. Very satisfied until someone stole our new tree in the middle of the night! Wow!		
I have had my rotting tree replaced.		
I purchased 8 trees to line my residential street through the discount program		
I was made aware about city's program through Tree Art Contest booth at latest Art in the Park event		
My grandparents' house in GG is located in a neighborhood with no sidewalks & very few trees. Increasing the canopy should include installing sidewalks & creating median strips that are planted with native, drought-tolerant trees - designed to descend in the center, layered with small rocks, smaller pebbles, sand, and drainage to clean rainwater as it soaks into the ground...that include cut-out curbs that allow rainwater to drain into the raingarden median strips. Also built including a drip system if possible (could GG provide minimal water to these new trees by using drip system?). Native plants surrounding the new trees - NOT invasive grass.		
Need to have trained tree trimmers so as not to trim at wrong time of from too aggressively		
Want to know more about tree program		
Total		283 (23 skipped)



14. What level of care for public trees would you prefer?

	Response %	Response Count
Current (service request, contractor scheduled pruning, emergency response)	30.7	87
Reduced service (address hazards, clearance, reactive maintenance)	2.5	7
Increased service (pruning cycles, care for significant tree populations)	62.9	178
None	1.1	3
Other	2.8	8
Other (please specify)		11
Dont prune trees at the wrong time of the year. I have seen trees pruned when they are in full bloom. We wait all years to see the flowers only for them to be cut at their prettiest time. So disappointing.		
I'm not familiar enough with the program to have an opinion.		
Increased service so long as wildlife shelter is surveyed and protected.		
Not well enough informed to know what is best for caring for a greater # of trees. I do think that there should be a large variety of native plants (especially milkweed) planted with the trees & in a beautiful landscaped/ designed way. Not just a random tree every so many meters standing lonesome next to the curb/street.		
Please plant more trees, especially at parks and commercial intersections with lots of cars like Brookhurst St and Westminster		
Pruning at the correct time of year.		
Some trees need more care, others less. Can funds be designed per tree (type of tree)?		
Tree pruning should be done better as usually what is left after the trimming looks odd and the tree is left way too thin and unnatural looking.		
Trees trimmed, not hacked by untrained workers		
Use certified artists to supervise tree pruning and care. Lot of our trees not pruned correctly.		
Years ago they used to run a root cutting saw along the edge if the sidewalk to keep the tree roots from lifting the sidewalk and curbs. Many years ago.the		
Total		283 (23 skipped)



15. Optional. Please use this space for any additional comments about the care of trees.

- A healthy society needs trees and greenery.
- A public tree in front of our property was not pruned in a timely manner and a limb fell on one of our family vehicles, requiring repair. An improved pruning cycle would be recommended, not just to protect resident's property, but also to protect the city from liability in case of similar incidents happening in the future.
- AVOID WIND SAIL FROM LACK OF TREE MAINTANCE/ AND PINE TREES NEED MORE CARE
- Careful consideration of tree type and long term effect to sewers and oavement
- Cities with tree lined streets have greater property values
- Cleaning up dead foliage from trees is important.
- Education
- Garden grove needs to be better about maintenance
- Healthy trees should not be removed because the resident is tired of cleaning up leaves. A healthy tree needs to stay and the petition process not apply.
- I don't love the "slashing" method of tree trimming. (I'm a real bird lover.). I don't put birds over people, but in public land, we might consider animal habitats.
- I live on Central and frequently drive on Galway. Not a tree in sight except at the Episcopal church. Galway needs a tree on every lawn. I cry (mourn) when trees are cut down as 3 or 4 were at the corner of Central and Gilbert. And what were they replaced with - NOTHING! What is the legal line between home owners and the city when trees are removed? There should be a law that requires tree replacement. That I would support!!!
- I see houses in my neighborhood with no trees. This is an undesirable look.
- I talked to the tree crew and they informed us that they have 4 employees ful time for the entire city and that is about half of what is needed
- I think that the design element surrounding the trees is really important. When the tree is presented beautifully (whether with a nicely patterned iron grate at its base or enclosed in a jasmine hedge or large planter), it might encounter more appreciation & less vandalism.
- I would be interested in creating a community tree care program and have community members work with professionals on caring for their local neighborhood trees.
- I've lived here for 5 years. I never knew we could call for tree pruning in public spaces.
- if several trees are being removed from a street, the neighborhood should be notified why there are being removed.
- If they would use the root saw on the tree lawn trees the sidewalks wouldn't lift and they wouldnt have to replace them.
- If you plant trees as described you're going to have to care for and protect them.
- Increased care is an investment in the community. Raise property values
- Introduce a program for trees on private property to be included with the public tree maintenance. Perhaps the property owner could pay a fee to be included. This would encourage private tree maintenance.
- It is important to provide the replacement of trees that get cut down.
- Make tren trimming and maintenance a standard. I have neighbors whos tree is leaning to my yard and also to the electrical.
- Making sure sidewalks are safe... tree roots
- NA
- Na
- Need to do a better job clearing power lines of trees
- None

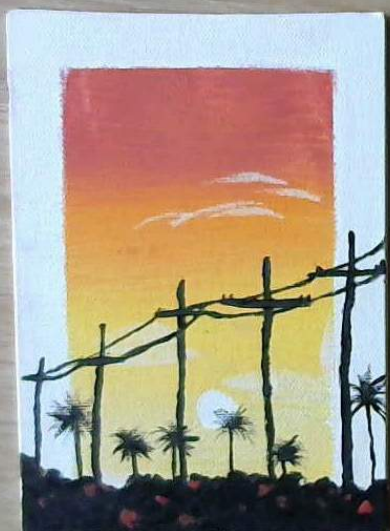


- Please continue maintaining trees.
- Please make sure that those who prune trees are properly trained to do so for the species they are caring for.
- Please remove tall trees that has things falling off damaging properties
- Please stop the hacking of trees they do not look good and it is not beneficial. And it is always during the warm months when shade is valued
- Pruning should be done more often
- Replacement of trees would be more important than contributing to a fund.
- The city need to have regular landscape and watering programs. In addition, they should hire professionals to beautify the city. Sadly proper value does not reflected in the city landscape and physical appeal. More flowering trees and colors needs to liven up the city. Drought resistant doesn't have to be ugly. Look at Costa Mesa and Santa Ana or west gg for examples
- The guy in charge of trees knows his business.
- They should be allowed to grow naturally and cared for to encourage healthy growth. However, maintenance should be reserved for hazard prevention rather than routine pruning for aesthetics.
- Topping is horrible
- Trees are trimmed at the wrong time of year and by crews that have no clue how to properly trim trees
- Trees that are removed need to be replaced, not a cop out contribution to a fund instead of teplacing.
- Trim trees according to their optimum requirements.
- Upgrade. There are lots of public trees without care. Perhaps an updated schedule to get to each tree and replace those damaged ASAP.
- We have a very tall palm tree on city property in front of our house and it needs pruning more often. During any wind there is always fronds crashing to the ground - could do damage if hit anyone
- West Garden Grove residents seem to not know of your services. The cost to add etc. More advertisements



16. What education topics about trees interest you? Please select up to three (3).

	Response %	Response Count
Species selection	67.3	189
How to plant a tree	29.9	84
Irrigation and watering	47.3	133
How to water a tree during drought	37.7	106
Basic pruning for young/small trees	52.7	148
Benefits of trees	30.6	86
Other (please specify)	4.3	12
All of the above and city sponsored tree plant program.		
Benefits of trees re climate change and city's carbon footprint		
Correct fertilizing & care		
GGUSD TREE CITY EDUCATION CAMPAIGN		
How the public can contribute (time or funding)		
How to safely rid trees of pests. (insects)		
I would like to see a focus on trees that do not need irrigation.		
None		
Private property codes and requirement to up keep especially for neighbors who bring down property value and park on lawns even		
protecting from disease and tree killing insects		
Tree Identification would be so lovely! I would love to see educational tools/resources for the widespread use of field guides.		
Where to plant trees in relation to structures/houses, what types & sizes to plant in various locations of a yard & why...to provide shade/ windbreak/privacy/prevent soil erosian/etc.		
Total		281 (25 skipped)



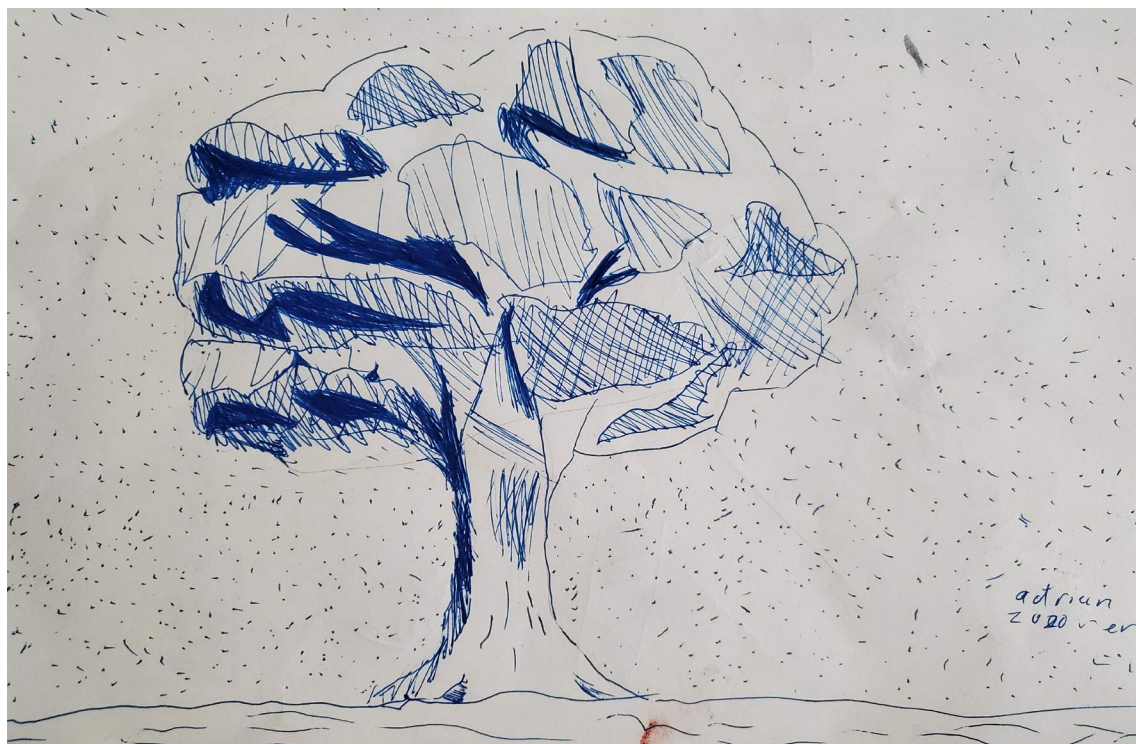
In the future, I hope to see MORE trees and LESS uses of Green House Gases. Green House Gases damage the Earth that WE live on. But, trees clean the air WE breathe without hurting the planet. So, which option is heathier for US?



17. What methods for education/outreach do you prefer?

Please select up to three (3).

	Response %	Response Count
Web or App-based (electronic)	70.46	198
Pamphlets, Newsletters (hard copy)	26.69	75
Workshops	31.67	89
Public tree plantings (Arbor Day, etc.)	50.18	141
Farmers Market (urban forestry info booth)	19.93	56
Self-guided tours or demonstration gardens	27.76	78
Engagement through schools	44.84	126
Other (please specify)	2.85	8
email newsletters, not hard copy		
Emails		
Establish volunteers in each neighborhoods to go door to door to educate home owners and businesses		
Online web		
Reimagine events, public TV, partnership with other cities, counties and state.		
Teach school kids benefits and care so they'll hopefully be disinclined to damage them		
There are these old-fashioned word-squares called "books".		
Urban garden regular training or meeting at the library		
Total		281 (25 skipped)



18. Optional. What other challenges or opportunities do you think the Management Plan should address?

- As stated in a previous response: the city needs to INTELLIGENTLY select trees for the vicinity in which they are to be planted. Too many that exist in our city are water-guzzling, destructive, and are not correct species for our current climate-challenged environment
- Citizens remove trees thinking cost of maintenance is too expensive. Teach benefits of lower energy costs: a/c, heating, noise reduction, property value and beautification of city. Provide wildlife like birds, bees, squirrels safe living nesting which helps reseed, pollinate and teach children of their usefulness to a healthy environment.
- City should make having or planting a parkway tree a requirement for any building permit exceeding \$1,000 in value. Other cities have this requirement and it helps repopulate the urban forest.
- community farming to increase local produce and healthy produce for healthy diets.
- Discounts on trees for residential planting in our homes
- drought-tolerant landscaping, landscape design around/including the trees, install drip systems in public spaces/median strips, remove invasive water-guzzlers (including palms), prevent water run-off, prevent flooding by designing planting areas to be efficiently permeable, incorporate cut-out curbs at intersections & flood-prone areas, install solar-powered lighting to enhance trees & provide sidewalk safety lighting (ambient instead of harsh), diversity of tree/plant selection (of native species), discard invasive species from "approved" tree/plant lists for government/public spaces, run info. booths on the benefits of trees, native trees/plants, etc. at community festivals/events.
- For example, encouraging home owners along Galway to plant trees. I'd be happy to knock on doors and if the city would provide the trees, I'd be happy to talk to my neighbors about tree maintenance, watering, tree value, etc.
- Give people an opportunity to ask for more questions. Where to find info and who they can reach out to.
- Graffiti, RV/trailers parking in streets- more than a week, fireworks-safety, noise, trash, trees on condo/ townhome complexes should be trimmed especially if the trees are very tall and may fall on houses nearby
- Homeless encampments in forested areas should be considered.
- how can the trees be planted and not have the sidewalks be damaged during growth?
- How to contact city to help with their own trees that are on public property
- I live in west Garden Grove off Knott and Stanford. Our homes were built in about 62 or 63 and the city planted matching trees along our parkways. By the early 80s, when I was a little girl, many of our parkway trees on my street were damaged and removed. The spots remained bare and I have always been sad my tree in front was gone. I JUST learned a few months ago, in 2020 that the city will bring me a new tree to our family home and I can even choose the type! I'm mentioning this because it took decades to learn that we were allowed to A. Replace our tree on the city parkway and B. That the city even had a program for providing trees to residents! Someone mentioned it in a fb group with the info. I think that the city could be more proactive about letting residents know about their trees, the replacement and maintenance programs and general care of trees on our property. Maybe some info 2x a year in our water bills would be helpful to pass along this information to residents. Also, we are all terribly confused about what to do regarding trees and wires in our backyards. Facebook neighborhood groups are scrambling for answers on a regular basis about tree/wire hazards in their yards and who is responsible to assist with trimming them. Residents also need to be better informed about this subject either via the city or SCE/utility companies.
- Idk
- If there is a Urban Forestry Booth at the Farmer's Market, how will the citizens of Garden Grove know?
- Introduce a program for trees on private property to be included with the public tree maintenance. Perhaps the property owner could pay a fee to be included. This would encourage private tree maintenance. Many privately owned trees become dilapidated as the owner's maintenance lapses.
- Lack of public awareness of a management plan.
- More thought on which trees are chosen.
- Native Plants and trees that are drought resistant need to be the priority for future landscaping on public and private property.



- Native trees versus other ornamental trees. Focus should be on planting natives like oaks.
- Non native trees that require constant watering may need to be replaced.
- None
- Not aure
- Nothing. At. All. Do not expand your mission, please. No mission-creep!
- Notification of website availability
- OCTA OWNS 95 % OF PE RIGHT AWAY ACCROSS The city OF GARDEN GROVE SINCE STATE OF CALIF GOVERNOR NEWSOM EXCETIVE ORDER ON CLIMATE CHANGE IN SEPT 2019. REQUEST A LETTER FROM THE MAYOR STEVE JONES WITH CITY COUNCIL WRITE IN SUPPORT ASKING OCTA ADDRESS THE BUS ROUTES AND THE RAIL CORRIDOR TO PLANT TREES AND FUND THE WATERING AND MAINTANCE. MOST CITIES WITH SCHOOLS ARE FACING FINANCIAL HARD SHIPS THUS HAVING NEGATIVE IMPACT ON CLIMATE CHANGE. THUS CREATES SHADE FOR COOLER TO WALK/BIKING.
- Opportunity to plant trees at Garden Grove Park, with additional picnic tables and paved path so residents can enjoy.
- Overhead wires are the reason we have fewer trees in GG. The reason people remove healthy public trees is because the species is wrong for the neighborhood. I have a very ugly and annoying tree outside my house that drops leaves half the year. Most of this unsightly species have been removed from my street but mine is the biggest and does offer some shade although it's barely worth keeping. Species selection is very important. We can't just go with whatever people chose 60 years ago.
- Patrol for vandalism
- pest prevention/monitoring--bees, rats, etc. that inhabit trees
- Places with no sidewalks. Sidewalks cracked a raised up by roots.
- Plant more trees!
- Please reduce paper products
- Private palm trees not maintained causing fire danger to neighbors.
- Provide assistance to residence who would like trees planted in the area between the sidewalk and the street in front of there homes.
- Providing a list of correct trees for the area and/or region.
- Removal of all sycamore trees and replanting of less allergenic species
- Rental housing tends to remove all greenery including grass as well as cementing in front yards. This needs to be addressed. It creates blight and impacts property values.
- Replacing trees on streets where trees have been removed and not replaced afterwards.
- Residential tree removal ordinance and enforcement.
- Right now? Social distancing is obviously key.
- The amount of open space left in the cuty
- The city needs solar panels on ALL of its government buildings i.e. city hall, police stations, public works etc. which will lower energy costs and help mitigate climate change
- The homeless taking over the areas
- The management plan should be executed using local labor. There should be a public program aspect that encourages community participation/ educating the youngsters
- There are many private brush hanging over public walkways, there should be more control here so we can walk freely without physical damage. Thank you.
- There are too many bare spots on public and residential streets where trees once stood. Every residential street should have at least one street tree in front of the home.
- Type of trees along streets... particularly finding types that do not drop seeds, pods or other things into bike lanes that can cause flats, slips, or other problems. The Carrotwood trees for instance are a big mess most months of the year!



- Underground pipes and tree roots.
- We need to encourage the planting and replacement of trees
- Well thought out long term maintenance plan. Some native trees can die from too much summer water. After established and adequate winter rain, summer water not needed. Look up technique Afforestation.
- West Garden Grove needs trees to look nicer. We have so many shopping centers nearly closed. If the City Manager can't help that at least plant more trees
- When people remove trees to build a second home on their property, replacement trees should be planted.

19. What is your age?

	Response %	Response Count
Under 18	1.08	3
18-24	8.99	25
25-34	19.78	55
35-44	23.02	64
45-54	14.03	39
55-64	21.22	59
65+	11.87	33
Total		278 (28 skipped)

20. Please check all that are true about you.

	Response %	Response Count
I live in Garden Grove	0.917	255
I work in Garden Grove or I come to Garden Grove often	0.266	74
I have planted public trees as a volunteer	0.094	26
I have participated in the Adopt a Tree Program or the Memorial Tree Program	0.058	16
I have planted trees in my own yard or I've convinced neighbors to plant trees in their yards	0.486	135
None of the above	0.011	3
Total		278 (28 skipped)



21. Optional. Please provide any additional comments or feedback.

- As a woodworker an urban logging program would be phenomenal. Trees that have to come down anyway should be available to woodworkers/furniture makers/etc ...
- CITY OF GG FLAWED EFFORTS/COMMUNITY RELATION MEDIA RELATIONS
- Garden grove needs more trees. It's in our name, but the neighborhoods and businesses are so stark and cold
- Home owners need to know more about Garden Grove services
- i am excited about having more trees in GG!
- I do not use garden grove park for family outings. There are no parks with nice playground, bike route, picnic areas or rental equipments like a Central Park area. We end up spending money in another city. In addition, we live up to our public image of "Garbage Grove" and not proud to say I live in this city. The city needs to revamp the image, have professional logos, artist and professional artwork or display more colors to brighten up the city. I recommend street lights on every street and more garden or holiday attractions to bring in more visitors. Recommend street light displays, holiday decorations or festivities and city wide walk way like Irvine or decorated intersections like Newport Beach.
- I have started a comprehensive workforce development program through my agency that involve farming and community gardens. I would love for an opportunity to present and partner with the city to reimagine Garden Grove with urban forest throughout the city.
- I just happened to run into a city employee and was told about this Urban Forest Meeting by accident. Somehow the public needs to be well informed in a timely manner.
- I like that certain streets are subject to certain trees. It looks uniform. Some homeowners not knowing of the program planted their own trees. Less desirable.
- I love that GG is performing this survey!!! I wish that Santa Ana would do the same. I maintain the website for the neighborhood (bordering GG) in which I live & would like to provide more information on how to improve our community with more trees & plants. Please keep me informed! RiverviewWest.weebly.com
- If the city were to advertise tree planting opportunities I would help when possible.
- It is a burden on families seniors to afford the water needed for trees and bushes when the city structures fees for water use without taking into account how much water is needed to keep trees and bushes healthy and stress free!
- Need more parks and trails
- None
- Pest control is essential. I have lost four pine trees to a bark beetle.
- Please provide a parkway tree free as do the other cities. Residents feel that they are already paying for water and fertilizer and should not be charged for a tree planted on city property in front of their home. Long Beach and other cities give SEVERAL trees free to their residents so why can't Garden Grove?
- Please, let's plant more trees!
- Provide tree information, such as: a photograph; how to plant, prune, and water; type of soil additives; provide information on the maximum trunk, height, and canopy size.
- So glad you are embarking on this!
- Thank you for asking our residents through this survey.
- Thank you for bringing knowledge about the importance of our urban forests to Garden Grove! Thanks also for giving residents the opportunity to be informed and give their input about it!
- Thank you for the work you do.
- Thank you for this!
- The city desperately needs more trees, having grown up in Lakewood/Long Beach I was shocked by the lack of trees here when I moved here. Poor urban areas like Compton and Watts have similarly sparse trees, conversely areas like Rossmore and Pasadena have numerous trees. What kind of city do we want to be?

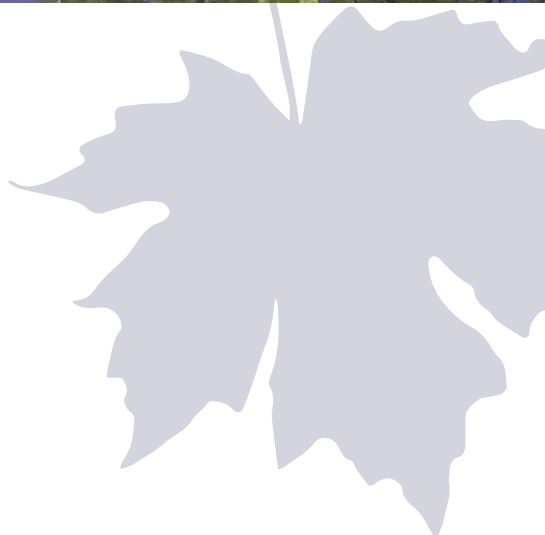


- The tree department is doing their best but they lack the personnel to be effective in the city
- Three children attend St. Columban school and we care for family that reside in Garden Grove.
- Too many trees are cut down. They might be older, or “in the way” but if that is the case they should be replaced. Too many homes are covering their yards with cement.
- Too many trees in Garden Grove have destroyed sidewalks and streets but the city does not remove them
- Trees are important
- Trees near electrical lines, who to call? City? SCE? Cost?
- We need pro active environmental people on the City Council and in all positions of leadership, especially the planning department.

“REPLACING ALL OF GARDEN GROVE’S COMMUNITY TREES WITH TREES OF EQUIVALENT SIZE, SPECIES, AND CONDITION WOULD COST MORE THAN \$62.7 MILLION.”

URBAN FOREST FACT





Appendix I: Indicators of a Sustainable Urban Forest for Garden Grove

Indicators of a Sustainable Urban Forest		Assessed Performance Level		
		Low	Medium	High
The Trees	Urban Tree Canopy			
	Equitable Distribution			
	Size/Age Distribution			
	Condition of Public Trees - Streets, Parks			
	Condition of Public Trees - Natural Areas			
	Trees on Private Property		NA	
	Species Diversity			
	Suitability			
	Space and Volume			
The Players	Neighborhood Action			
	Large Private & Institutional Landholder Involvement			
	Green Industry Involvement			
	City Department/Agency Cooperation			
	Funder Engagement			
	Utility Engagement			
	State Engagement			
	Public Awareness			
	Regional Collaboration			
The Mgmt Approach	Tree Inventory			
	Canopy Assessment			
	Management Plan			
	Risk Management Program			
	Maintenance of Publicly-Owned Trees (ROWs)			
	Maintenance Program of Publicly-Owned Natural Areas		NA	
	Planting Program			
	Tree Protection Policy			
	City Staffing and Equipment			
	Funding			
	Disaster Preparedness & Response			
	Communications			
Totals		18	5	6



THE TREES				
Indicators of a Sustainable Urban Forest	Overall Objective or Industry Standard	Performance Levels		
		Low	Medium	High
Urban Tree Canopy	Achieve the desired tree canopy cover according to goals set for the entire city and neighborhoods. Alternatively, achieve 75% of the total canopy possible for the entire city and in each neighborhood.	Canopy is decreasing. - and/or - No canopy goals have been set.	Canopy is not dropping, but not on a trajectory to achieve the established goal.	Canopy goal is achieved, or well on the way to achievement.
Location of Canopy (Equitable Distribution)	Achieve low variation between tree canopy and equity factors citywide by neighborhood. Ensure that the benefits of tree canopy are available to all, especially for those most affected by these benefits.	Tree planting and public outreach and education is not determined by tree canopy cover or benefits.	Tree planting and public outreach and education is focused on neighborhoods with low tree canopy.	Tree planting and public outreach and education is focused in neighborhoods with low tree canopy and a high need for tree benefits.
Age of Trees (Size and Age Distribution)	Establish a diverse-aged population of public trees across the entire city and for each neighborhood. Ideal standard: 0-8" DBH: 40% 9-17" DBH: 30% 18-24" DBH: 20% Over 24" DBH: 10%	No current information is available on size. - OR - Age distribution is not proportionally distributed across size classes at the city level.	Size classes are evenly distributed at the city level, though unevenly distributed at the neighborhood level.	Age distribution is generally aligned with the ideal standard diameter classes at the neighborhood level.
Condition of Publicly Owned Trees (<i>trees managed intensively</i>)	Possess a detailed understanding of tree condition and potential risk of all intensively-managed, publicly-owned trees. This information is used to direct maintenance actions.	No current information is available on tree condition or risk.	Information from a partial or sample or inventory is used to assess tree condition and risk.	Information from a current, GIS-based, 100% complete public tree inventory is used to indicate tree condition and risk.
Condition of Publicly-Owned Natural Areas (<i>trees managed extensively</i>)	Possess a detailed understanding of the ecological structure and function of all publicly-owned natural areas (such as woodlands, ravines, stream corridors, etc.), as well as usage patterns.	No current information is available on tree condition or risk.	Publicly-owned natural areas are identified in a sample-based "natural areas survey" or similar data.	Information from a current, GIS-based, 100% complete natural areas survey is utilized to document ecological structure and function, as well as usage patterns.
Trees on Private Property	Possess a solid understanding of the extent, location and general condition of trees on private lands.	No data is available on private trees.	Current tree canopy assessment reflects basic information (location) of both public and private canopy combined.	Detailed information available on private trees. Ex. bottom-up sample-based assessment of trees.
Diversity	Establish a genetically diverse population of publicly-owned trees across the entire city and for each neighborhood. Tree populations should be comprised of no more than 30% of any family, 20% of any genus, or 10% of any species.	No current information is available on species. - OR - Fewer than five species dominate the entire tree population citywide.	No species represents more than 20% of the entire tree population citywide.	No species represents more than 10% of the entire tree population citywide.
Climate Resilience/Suitability	Establish a tree population suited to the urban environment and adapted to the overall region. Suitable species are gauged by exposure to imminent threats, considering the "Right Tree for the Right Place" concept and invasive species.	No current information is available on species suitability. - OR - Less than 50% of trees are considered suitable for the site.	50% to 75% of trees are considered suitable for the site.	More than 75% of trees are considered suitable for the site.
Space and Soil Volume	Establish minimum street tree soil volume requirements to ensure there is adequate space and soil for street trees to thrive. Minimum soil volumes by mature size: 1000 cubic feet for large trees; 600 cubic feet for medium trees; 300 cubic feet for small trees.	Minimum street tree soil volumes have not been established.	Minimum street tree soil volume has been established based on mature size of tree.	Minimum street tree soil volumes have been established and are required to be adhered to for all new street tree planting projects.



THE PLAYERS				
Indicators of a Sustainable Urban Forest	Overall Objective or Industry Standard	Performance Levels		
		Low	Medium	High
Neighborhood Action	Citizens understand, cooperate, and participate in urban forest management at the neighborhood level. Urban forestry is a neighborhood-scale issue.	Little or no citizen involvement or neighborhood action.	Some active groups are engaged in advancing urban forestry activity, but with no unified set of goals or priorities.	The majority of all neighborhoods are organized, connected, and working towards a unified set of goals and priorities.
Large Private & Institutional Landholder Involvement	Large, private, and institutional landholders embrace citywide goals and objectives through targeted resource management plans.	Large private land holders are unaware of issues and potential influence in the urban forest. No large private land management plans are currently in place.	Education materials and advice is available to large private landholders. Few large private landholders or institutions have management plans in place.	Clear and concise goals are established for large private land holders through direct education and assistance programs. Key landholders and institutions have management plans in place.
Green Industry Involvement	The green industry works together to advance citywide urban forest goals and objectives. The city and its partners capitalize on local green industry expertise and innovation.	Little or no involvement from green industry leaders to advance local urban forestry goals.	Some partnerships are in place to advance local urban forestry goals, but more often for the short-term.	Long-term committed partnerships are working to advance local urban forestry goals.
City Department and Agency Cooperation	All city departments and agencies cooperate to advance citywide urban forestry goals and objectives.	Conflicting goals and/or actions among city departments and agencies.	Informal teams among departments and agencies are communicating and implementing common goals on a project-specific basis.	Common goals and collaboration occur across all departments and agencies. City policy and actions are implemented by formal interdepartmental and inter-agency working teams on all city projects.
Funder Engagement	Local funders are engaged and invested in urban forestry initiatives. Funding is adequate to implement citywide urban forest management plan.	Little or no funders are engaged in urban forestry initiatives.	Funders are engaged in urban forestry initiatives at minimal levels for short-term projects.	Multiple funders are fully engaged and active in urban forestry initiatives for short-term projects and long-term goals.
Utility Engagement	All utilities are aware of and vested in the urban forest and cooperates to advance citywide urban forest goals and objectives.	Utilities and city agencies act independently of urban forestry efforts. No coordination exists.	Utilities and city agencies have engaged in dialogues about urban forestry efforts with respect to capital improvement and infrastructure projects.	Utilities, city agencies, and other stakeholders integrate and collaborate on all urban forestry efforts, including planning, site work, and outreach/education.
State Engagement	State departments/agencies are aware of and vested in the urban forest and cooperates to advance citywide urban forest goals and objectives.	State departments/agencies and City agencies act independently of urban forestry efforts. No coordination exists.	State department/agencies and City agencies have engaged in dialogues about urban forestry efforts with respect to capital improvement and infrastructure projects.	State departments/agencies, City agencies, and other stakeholders integrate and collaborate on all urban forestry efforts, including planning, site work, and outreach/education.
Public Awareness	The general public understands the benefits of trees and advocates for the role and importance of the urban forest.	Trees are generally seen as a nuisance, and thus, a drain on city budgets and personal paychecks.	Trees are generally recognized as important and beneficial.	Trees are seen as valuable infrastructure and vital to the community's well-being. The urban forest is recognized for the unique environmental, economic, and social services it provides to the community.
Regional Collaboration	Neighboring communities and regional groups are actively cooperating and interacting to advance the region's stake in the city's urban forest.	Little or no interaction between neighboring communities and regional groups.	Neighboring communities and regional groups share similar goals and policy vehicles related to trees and the urban forest.	Regional urban forestry planning, coordination, and management is widespread.



THE MANAGEMENT				
Indicators of a Sustainable Urban Forest	Overall Objective or Industry Standard	Performance Levels		
		Low	Medium	High
Tree Inventory	Comprehensive, GIS-based, current inventory of all intensively-managed public trees to guide management, with mechanisms in place to keep data current and available for use. Data allows for analysis of age distribution, condition, risk, diversity, and suitability.	No inventory or out-of-date inventory of publicly-owned trees.	Partial or sample-based inventory of publicly-owned trees, inconsistently updated.	Complete, GIS-based inventory of publicly-owned trees, updated on a regular, systematic basis.
Canopy Assessment	Accurate, high-resolution, and recent assessment of existing and potential city-wide tree canopy cover that is regularly updated and available for use across various departments, agencies, and/or disciplines.	No tree canopy assessment.	Sample-based canopy cover assessment, or dated (over 10 years old) high resolution canopy assessment.	High-resolution tree canopy assessment using aerial photographs or satellite imagery.
Management Plan	Existence and buy-in of a comprehensive urban forest management plan to achieve city-wide goals. Re-evaluation is conducted every 5 to 10 years.	No urban forest management plan exists.	A plan for the publicly-owned forest resource exists but is limited in scope, acceptance, and implementation.	A comprehensive plan for the publicly owned forest resource exists and is accepted and implemented.
Risk Management Program	All publicly-owned trees are managed for maximum public safety by way of maintaining a city-wide inventory, conducting proactive annual inspections, and eliminating hazards within a set timeframe based on risk level. Risk management program is outlined in the management plan.	Request-based, reactive system. The condition of publicly-owned trees is unknown.	There is some degree of risk abatement thanks to knowledge of condition of publicly-owned trees, though generally still managed as a request-based reactive system.	There is a complete tree inventory with risk assessment data and a risk abatement program in effect. Hazards are eliminated within a set time period depending on the level of risk.
Maintenance Program of Publicly-Owned Trees (trees managed intensively)	All intensively-managed, publicly-owned trees are well maintained for optimal health and condition in order to extend longevity and maximize benefits. A reasonable cyclical pruning program is in place, generally targeting 5 to 7 year cycles. The maintenance program is outlined in the management plan.	Request-based, reactive system. No systematic pruning program is in place for publicly-owned trees.	All publicly-owned trees are systematically maintained, but pruning cycle is inadequate.	All publicly-owned trees are proactively and systematically maintained and adequately pruned on a cyclical basis.



THE MANAGEMENT				
Indicators of a Sustainable Urban Forest	Overall Objective or Industry Standard	Performance Levels		
		Low	Medium	High
Maintenance Program of Publicly-Owned Natural Areas <i>(trees managed extensively)</i>	The ecological structure and function of all publicly-owned natural areas are protected and enhanced while accommodating public use where appropriate.	No natural areas management plans are in effect.	Only reactive management efforts to facilitate public use (risk abatement).	Management plans are in place for each publicly-owned natural area focused on managing ecological structure and function and facilitating public use.
Planting Program	Comprehensive and effective tree planting and establishment program is driven by canopy cover goals, equity considerations, and other priorities according to the plan. Tree planting and establishment is outlined in the management plan.	Tree establishment is ad hoc.	Tree establishment is consistently funded and occurs on an annual basis.	Tree establishment is directed by needs derived from a tree inventory and other community plans and is sufficient in meeting canopy cover objectives.
Tree Protection Policy	Comprehensive and regularly updated tree protection ordinance with enforcement ability is based on community goals. The benefits derived from trees on public and private property are ensured by the enforcement of existing policies.	No tree protection policy.	Policies are in place to protect trees, but the policies are not well-enforced or ineffective.	Protections policies ensure the safety of trees on public and private land. The policies are enforced and supported by significant deterrents and shared ownership of city goals.
City Staffing and Equipment	Adequate staff and access to the equipment and vehicles to implement the management plan. A high level urban forester or planning professional, strong operations staff, and solid certified arborist technicians.	Insufficient staffing levels, insufficiently-trained staff, and/or inadequate equipment and vehicle availability.	Certified arborists and professional urban foresters on staff have some professional development, but are lacking adequate staff levels or adequate equipment.	Multi-disciplinary team within the urban forestry unit, including an urban forestry professional, operations manager, and arborist technicians. Vehicles and equipment are sufficient to complete required work.
Funding	Appropriate funding in place to fully implement both proactive and reactive needs based on a comprehensive urban forest management plan.	Funding comes from the public sector only, and covers only reactive work.	Funding levels (public and private) generally cover mostly reactive work. Low levels of risk management and planting in place.	Dynamic, active funding from engaged private partners and adequate public funding are used to proactively manage and expand the urban forest.
Disaster Preparedness & Response	A disaster management plan is in place related to the city's urban forest. The plan includes staff roles, contracts, response priorities, debris management and a crisis communication plan. Staff are regularly trained and/or updated.	No disaster response plan is in place.	A disaster plan is in place, but pieces are missing and/or staff are not regularly trained or updated.	A robust disaster management plan is in place, regularly updated and staff is fully trained on roles and processes.
Communication	Effective avenues of two-way communication exist between the city departments and between city and its citizens. Messaging is consistent and coordinated, when feasible.	No avenues are in place. City departments and public determine on an ad-hoc basis the best messages and avenues to communicate.	Avenues are in place, but used sporadically and without coordination or only on a one-way basis.	Avenues are in place for two way communication, are well-used with targeted, coordinated messages.



Appendix J: Gantt Chart

City of Garden Grove Urban Forest Management Plan

Goals & Objectives

Goal 1: Plan for trees before planting.

Objective 1.1: Set emphasis on the right tree in the right place.

Objective 1.2: Develop planter improvement and design strategies for mitigating conflicts and increasing soil volume.

Goal 2: Support tree health and good structure.

Objective 2.1: Ensure community trees are maintained according to industry standards to promote tree health, longevity, and public safety.

Objective 2.2: Establish a risk management policy.

Objective 2.3: Employ multiple tools and strategies to prevent and/or manage pests and pathogens.

Goal 3: Repurpose woody materials whenever possible.

Objective 3.1: Identify a wood reutilization policy.

Existing Policy 1: Understand the structure and composition of Garden Grove's community tree resource.

Objective 1.1: Maintain a tree inventory that can be used to manage the community tree resource.

Goal 4: Increase uniformity between City policies, documents, and Departments.

Objective 4.1: Communicate and coordinate with other city departments.

Objective 4.2: Unify guiding documents to transcend departmental changes, promote consistency, and shared vision.

Goal 5: Recognize trees as green infrastructure.

Objective 5.1: Plan for trees to limit future grey infrastructure conflicts.

Objective 5.2: Create and enforce policies that protect trees.

Existing Policy 2: Encourage a culture of safety.

Objective 2.1: Implement policies and procedures that make that tree work as safe as possible.

Objective 2.2: Encourage employees to engage in professional development.

Goal 6: Promote tree preservation and protection.

Objective 6.1: Revise and amend Municipal Code to promote the protection of community trees.

Objective 6.2: Monitor contractor services.

Objective 6.3: Optimize the Trees Division's ability to address maintenance needs.

Objective 6.4: Monitor for pests and pathogens.

Goal 7: Enhance community aesthetics.

Objective 7.1: Encourage the expansion of the urban forest through tree plantings on public property.

Objective 7.2: Encourage the expansion of the urban forest through tree plantings on private property.

Goal 8: Expand and diversity tree canopy to increase the environmental benefits received by the community.

Objective 8.1: Reach 15% tree canopy cover by 2040.

Objective 8.2: Promote species diversity to build a more sustainable community tree resource.

Existing Policy 3: Encourage the establishment of trees through efficient and sustainable irrigation solutions.

Objective 3.1: Promote the efficient use of tree planting funds.

Objective 3.2: Support established and mature trees.

Objective 3.3: Establish a more water-wise urban forest.

Objective 3.4: Ensure trees receive adequate water.

Goal 9: Celebrate the importance of community trees.

Objective 9.1: Re-establish the Tree City USA designation.

Goal 10: Support community engagement and stewardship of the urban forest.

Objective 10.1: Promote the Urban Forest Management Plan.

Objective 10.2: Update the website for the Trees & Flood Control Section on the city Website.

Objective 10.3: Encourage community involvement and stewardship for the urban forest.

Objective 10.4: Encourage the expansion of the urban forest through tree plantings on both public and private property.

Objective 10.5: Support the formation of a community-led tree ad-hoc committee.

\$ = less than \$25,000

\$\$ = \$25,000-\$100,000

\$\$\$ = more than \$100,000

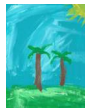
Cost	2020 2024	2025 2029	2030 2034	2035 2039	2040 2044	2045 2049	2050 2054	2055 2060	Timeframe	Priority
\$									Ongoing	High
\$ \$ \$									1–5 Years	Moderate
\$									Ongoing	High
\$									1–5 Years	High
\$									Ongoing	Moderate
\$									5–10 Years	Low
\$									Ongoing	Moderate
\$									Ongoing	High
\$									Ongoing	Moderate
\$									10 Years	High
\$									1–5 Years	High
\$									1–5 Years	High
\$									Ongoing	Low
\$									1–5 Years	High
\$									Ongoing	Moderate
\$ \$ \$									Ongoing	High
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\$									Ongoing	Moderate
\$									Ongoing	Moderate
\$									Ongoing	Moderate
\$									Ongoing	Moderate
\$									Ongoing	High
\$ \$ \$									10 Years	High
\$									1 Year	Low-Moderate
\$									Ongoing	Low
\$									1 Year	Moderate
\$									Ongoing	Low
\$									Ongoing	Moderate
\$									10 Years	Low



Appendix K: Photo Credits

As part of the development of the UFMP, the city organized the “Tree Art Contest” a youth art and photo contest with help from the Garden Grove Unified School District and the Boys and Girls Club. The city created the contest to highlight the different ways that Garden Grove youth appreciate and celebrate the city’s urban forest. Approximately 100 photo and art entries were submitted to the Tree Art Contest.

GRADES K-3



PAGE ii
Adam Guidry



PAGE viii
Alexander Rivera Sosa



PAGE 127
Alexis Cori



PAGE iii
Amore’ Ma’ae



PAGE 14
Andrew Nguyen



PAGE 100
Anthony Huynh



PAGE COVER
Audrey Gigi LHeureux



PAGE 100
Audrie Trachier



PAGE 53
Aurora Shein



PAGE 33
Aveline Lee



PAGE 103
Avery Nichols



PAGE 79
Brandon Phanel



PAGE 48
Camila Pineda



PAGE 111
Camilla Hernandez



PAGE 75
Celine Tran



PAGE 99
Charlotte Phanel



PAGE 18
Dahlia Kinno



PAGE 100
Damian Barajas



PAGE 65
Dave Luu



PAGE 13
Diana Lam



PAGE 89
Dulce Cuevas



PAGE 12
Edwards Escamilla



PAGE 18
Eli Olea



PAGE 108
Elizabeth Yu



PAGE 89
Emily Zamora



PAGE v11
Emmanuel De Gante



PAGE 156
Eva Hidalgo



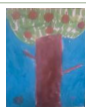
PAGE 146
Gabriel Hernandez Chavez



PAGE 33
George Rhoades



PAGE 63
Hannah Nguyen



PAGE 69
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PAGE 18
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Iyanna Sanata



PAGE 111
Jason Lai



PAGE 100
Jayden Ngo



PAGE 146
Jesabelle Nava



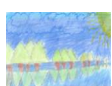
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Julian Alvarez



PAGE 57
Keon Nguyen



PAGE 100
Lando Ngo



PAGE 147
Leilanie Ayapantecatl



PAGE 93
Lily Muratalla



PAGE 137
Logan Mendez



PAGE 36
Lolbeh Ayala



PAGE 67
Makenzie Lee



PAGE 89
Matilda Thieu



PAGE 111
Michaela Montano



PAGE 127
Monika Cantoran



PAGE 31
Noah Clarke



PAGE viii
Pedro Argenal



PAGE 75
Royce Amavizca



PAGE 156
Sage Singleton



PAGE 87
Sofia Arzate



PAGE 18
Sydney Freeman



PAGE 127
Valerie Lee



PAGE 2
William Richardson



PAGE 79
Yareli A. Sandoval



GRADES 4-6



PAGE 85
Abigail Enriquez



PAGE 149
Addie Fajardo



PAGE 150
Adrian Vera



PAGE 37
Alyson Hensley



PAGE 79
Amelia Maczynski



COVER
Analia



PAGE 83
Andrea Binkes



PAGE 83
Aylin Velazquez Melendez



PAGE 65
Crystal Clarke



PAGE 72
Ivy Nguyen



PAGE 48
Jamie Lee



PAGE 77
Jaqueline Morales



PAGE 79
Jessalyn Nguyen



PAGE 144
Katie La



PAGE 85
Lucille Lai



PAGE 148
Michael Perez



PAGE 57
Muska Momand



PAGE vii
Paige Dalton



PAGE 112
Simran Sharma



GRADES 7-9



PAGE 12
Anh Nguyen



PAGE 19
April Funk



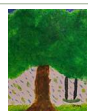
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PAGE 65
Edgar



PAGE 94
Grace Fleischmann



PAGE 2
Joshua Munger



COVER
Katelyn Seidmeyer



PAGE 1
Lauren Nguyen



PAGE 42
Lily Nguyen



COVER
Madeleine Huang



PAGE 88
Marcy Bernal



PAGE 23
Niema Hussain



PAGE iv
Ryan Thach



PAGE 29
Sally Montano

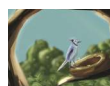
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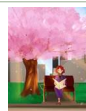
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PAGE 29
Amy Joo



PAGE 56
Daniel Tran



PAGE 48
Evelyn Serrato



PAGE iv
Jhoana Jimenez



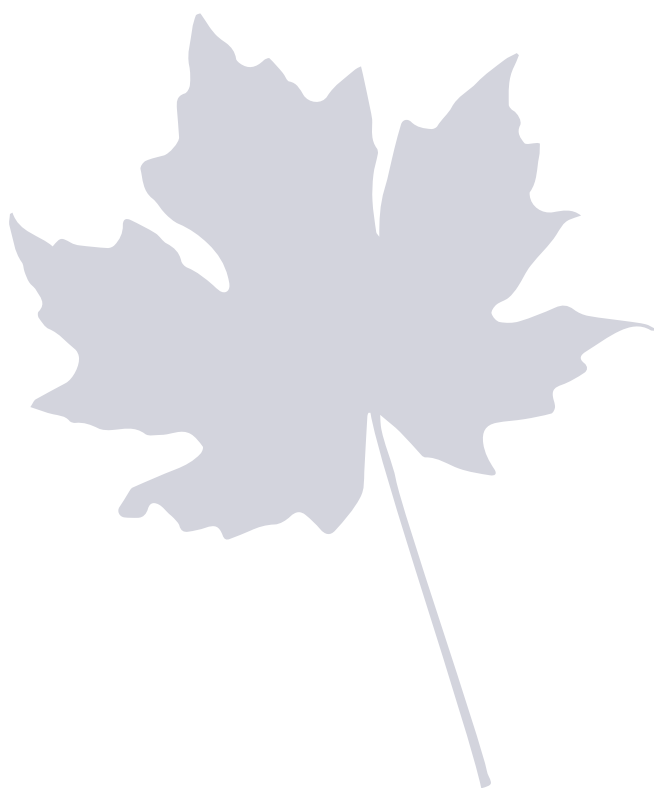
PAGE 26
Kylie Favro



PAGE 127
Mireyda Marin



PAGE 18
Natalia Nguyen





GARDEN GROVE CITY COUNCIL

RESOLUTION NO.

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDEN GROVE,
CALIFORNIA APPROVING AND ADOPTING THE 2020 URBAN FOREST
MANAGEMENT PLAN**

WHEREAS, on March 8, 2018, the City received grant funding from CAL FIRE (California Department of Forestry and Fire Protection) under the California Climate Investments (Greenhouse Gas Reduction Fund) in the amount of \$573,931.00. The project required the development of a comprehensive Urban Forest Management Plan; City Tree Ordinance update; canopy cover assessment; and, greenhouse gas calculations related to the grant funded 363 trees planted along the four segments of the OCTA Pacific Electric Right-of-Way from Nelson to Brookhurst Street; and

WHEREAS, on June 11, 2019, the City awarded a contract with Davey Resource Group, Inc. to complete the Urban Forest Management Plan, Tree Ordinance update, canopy cover assessment, and greenhouse gas calculations; and

WHEREAS, in conjunction with the implementation of the Urban Forest Management Plan, the CAL FIRE grant required an update to the City's Tree Ordinance, to amend Chapter 11.32 of the Municipal Code to align the City efforts to manage, enhance, and grow the Garden Grove urban forest and the community tree resource for the next 40 years.

NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GARDEN GROVE, AS FOLLOWS:

Section 1 The City Council of the City Garden Grove hereby approves and adopts the 2020 City of Garden Grove Urban Forest Management Plan attached hereto and incorporated herein by reference.

ORDINANCE NO. ____

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF GARDEN GROVE AMENDING CHAPTER 11.32 OF TITLE 11 OF THE GARDEN GROVE MUNICIPAL CODE PERTAINING TO TREES ON PUBLIC PLACES.

City Attorney Summary

This Ordinance amends Chapter 11.32 (Trees) of Title 11 (Public Property) of the Garden Grove Municipal Code to help preserve, protect and promote the health, safety and general welfare of the public by providing for the regulation of trees located on public places.

THE CITY COUNCIL OF THE CITY OF GARDEN GROVE DOES HEREBY ORDAIN AS FOLLOWS:

SECTION 1 Chapter 11.32 (Trees) of Title 11 (Public Property) of the Garden Grove Municipal Code is hereby amended in its entirety as stated in the revised Chapter 11.32 attached hereto and incorporated herein by reference.

SECTION 2: If any section, subsection, subdivision, sentence, clause, phrase, word, or portion of this Ordinance is, for any reason, held to be invalid or unconstitutional by the decision of any court of 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 adopted this Ordinance and each section, subsection, subdivision, sentence, clause, phrase, word, or portion thereof, irrespective of the fact that any one or more sections, subsections, subdivisions, sentences, clauses, phrases, words or portions thereof be declared invalid or unconstitutional.

SECTION 3: The Mayor shall sign and the City Clerk shall certify to the passage and adoption of this Ordinance and shall cause the same, or the summary thereof, to be published and posted pursuant to the provisions of law and this Ordinance shall take effect thirty (30) days after adoption.

Chapter 11.32 TREES

11.32.010 Purpose and Intent

- A. It is the purpose of this chapter to preserve, protect and promote the health, safety and general welfare of the public by providing for the regulation of trees located on thoroughfares, parks and public areas owned or controlled by the City. These regulations also apply to new developments and alterations to previous developments on private property.
- B. It is the intent of this chapter to:
 - 1. Preserve, maintain, and care for trees on public property.
 - 2. Regulate the planting, maintenance and removal of trees.
 - 3. Establish tree planting standards to ensure that newly planted trees thrive.
 - 4. Protect the community from personal injury and property damage caused or threatened by improper planting, pruning, maintenance or removal of trees.
 - 5. Emphasize the importance of trees and vegetation as both visual and physical buffers.
 - 6. Improve air quality by reducing air pollution and carbon dioxide levels in the atmosphere.
 - 7. Reduce the effects of heat, noise, and glare from traffic and lights.
 - 8. Provide and preserve shade and tree canopy to reduce ambient temperatures and heat island effects.
 - 9. Prevent soil erosion.

11.32.020 Definitions

Words and phrases used in this chapter that are not specifically defined in this section shall be interpreted so as to give them the meaning they have in common usage and to give this chapter its most reasonable application. The following words, terms and phrases, when used in this chapter, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

“Adjacent property owners” means the owners of property directly adjacent to the parcel on which the subject tree is located. If the tree is located on City-owned property or right-of-way owned in fee, the “adjacent property owners” include the owners of propert(ies) within ten (10) feet of the tree and the parcels adjacent thereto.

“Arborist” an individual who is a specialist in the care and maintenance of trees and is certified by the International Society of Arboriculture (ISA) or is a registered consulting arborist certified by the American Society of Consulting Arborists (ASCA) in good standing.

“City Manager” means the City Manager of the City or his/her designee.

“Park” includes all existing public parks and those to be developed in the future.

“Park Tree” includes all trees, shrubs and other woody vegetation growing in existing public parks and those to be developed in the future.

“Public places” includes all other areas owned by the City or to which the public has free access.

“Public thoroughfare” includes all land lying between property lines on either side of all City streets, alleys, and boulevards.

“Root protection zone” means, generally, 18 inches (18”) to 24 inches (24”) deep and a distance from the trunk of a tree equal to one-half its height or its drip line, whichever is greater.

11.32.020 City Jurisdiction and Authority

- A. The City Manager shall have the jurisdiction, authority, control, supervision and direction over all trees planted or growing in the City, except where exempted in this chapter.
- B. The City Manager shall prepare and publish guidelines and specifications for tree planting, tree species selection, care, maintenance, removal and landscape design in a document entitled "Tree Ordinance Guidelines" for reference and use by property owners, developers, consultants and the general public in furtherance of the requirements and intent of this chapter. The Tree Ordinance Guidelines shall be reviewed periodically by the Planning Commission.
- C. The City Manager shall review all applications for permits for any planting, removal and/or trimming or cutting of trees subject to this chapter and shall have the authority to grant or deny permits and to attach reasonable conditions to the granting of a permit.

11.32.030 Nuisance Abatement

- A. A tree, shrub, or part thereof shall be declared a nuisance, if one or more of the following conditions are met:
 - 1. Interferes with the use of any public thoroughfare, park or public place.
 - 2. Is unsafe and constitutes a hazard to the life, health, safety, or property of the public.
 - 3. Constitutes a center of infection for disease or insects that may endanger the health and life of other trees or shrubs.
- B. In the event of a nuisance, the owner shall be notified in writing of the existence of such public nuisance and given reasonable time for its correction or removal. If not corrected or removed within the time allowed, the City Manager shall cause said nuisance to be corrected or removed, and initiate such procedures or court action as necessary to defray all cost resulting therefrom.

11.32.040 Protection for Trees on Public Property

- A. No person shall spray, fertilize, remove, destroy, cut, top, or otherwise severely prune, including the root system, or treat any tree or shrub having all or any portion of its trunk in or upon any public property without first obtaining a written permit from the City, and without complying strictly with the provisions of the permit, this chapter, and the "Tree Ordinance Guidelines."
- B. No person shall plant any tree or shrub on any public street right-of-way or public property without first obtaining a permit from the City and without complying strictly with the provisions of the permit, the provisions of this chapter and the "Tree Ordinance Guidelines."
- C. No person shall damage, cut, or carve any tree or shrub having all or any portion of its trunk in or upon any public property; attach any object, including, but not limited to, rope, wire, nail, chain or sign to any such tree or shrub, or to the guard or stake intended for the protection of such tree.
- D. No person shall place, store, deposit, or maintain, upon the ground in any public street or public place, any compacted stone, cement, brick, sand or other materials which may impede or obstruct the free passage of air, water and fertilizer to the roots of any tree or shrub growing in any such street or public place without written authorization from the City.
- E. No person shall change the natural drainage; excavate any ditches, tunnels, or trenches; or lay any drive within the root protection zone of any tree having all or any portion of its trunk in or upon any public property without obtaining a permit from the City and without strictly complying with the provisions of the permit and provisions of this Chapter.
- F. No person shall perform, or contract with another to perform, excavation or construction work within the drip line of any tree having all or any portion of its trunk in or upon any public property without first obtaining a permit in accordance with this chapter.
- G. No person shall place salt, oil, or any other substance injurious to plant growth upon any public thoroughfare, park, or public place in such manner as to injure any tree or shrub growing thereon.
- H. No person shall build any fire or station any engine in any public place in such a manner that the heat, vapors, or fumes therefrom may injure the trees or shrubs growing thereon.
- I. No person shall permit any leak to exist in any gas pipe or main within the root zone of any tree or shrub.
- J. No person shall allow or continue to pollute the air surrounding any tree or shrub with toxic smoke, gases, or other injurious chemicals that may be harmful to the health or life of such tree or shrub.
- K. Liability for damages or injuries to any tree or shrub having all or any portion of its trunk in or upon public property resulting from a violation of this chapter shall be determined by the City in accordance with section 11-32-160. The person performing the work, the property owner and the person contracting for the performance of the work shall be jointly and severally liable for

any penalties or other enforcement action imposed pursuant to this chapter, or other provisions of law on account of work performed in violation of this chapter. However, no claims shall be made more than five (5) years after damage can be proven to have occurred.

- L. Any tree service performing tree pruning or removal activities on public property must have an arborist or authorized City employee, as defined in this chapter, present onsite to perform or oversee the work.

11.32.050 Permit Application and Issuance

- A. No permit shall be issued under this chapter until the application is submitted and the appropriate fee is paid, not less than two (2) weeks in advance of the time the work is to be done, unless otherwise permitted by the City Manager to abate an immediate hazard.
- B. The City Manager shall issue the appropriate permit as provided for herein if, in his or her judgment, the proposed work adheres to specifications contained in this chapter and in the Tree Ordinance Guidelines.
- C. The person receiving the permit shall abide by all conditions stated on the permit and by the standards established in the Tree Ordinance Guidelines.
- D. Any Tree Permit granted shall contain a definite date of expiration. The work shall be completed in the time allowed on the permit, and only in the manner as therein described.
- E. Notice of completion shall be given within five (5) days to the City Manager for inspection.
- F. Where a Tree Permit for removal has been denied, the property owner may appeal the decision to the City Manager within ten (10) days of the denial. The appeal may be heard by an official or designee not involved in the denial of the permit. The decision of the official or designee shall be final.

11.32.060 Resident Petition for Street Tree Removal and Replacement

A petition may be presented by citizen action in a given area for the removal and replacement of existing City trees, if in the opinion of the petitioners, the trees are undesirable. The following conditions must be met:

- 1. The petition must be signed by the adjacent property owners in accordance with the following percentage schedule based upon the number of trees involved:
 - a. 0 to 15 Trees 75%
 - b. 16 to 25 Trees 80%
 - c. 26 trees and over 85%
- 2. All costs for removal and mitigation will be borne by the petitioner. Mitigation may include replacement with an approved species, or payment of fees as established by resolution of the City Council.

3. The work is to be performed by contract, under City specifications and administered by the City. The cost will be determined by the City Manager, and would be placed on deposit with the City prior to removal being initiated.
4. It will be the responsibility of the petitioners to collect and deposit the necessary funds with the City to cover the cost of the project.
5. In that granting requests initiated by petitions is discretionary, each petition request will be considered individually, and will be determined on the merits of the individual request.

11.32.070 Construction and Utility Projects

The City Manager shall review and approve all plans and City permits for construction, installation, altering, moving, or razing of all buildings, utilities, sidewalks, sewers, or other operations where trees or shrubs, or parts thereof are involved. Plans and permits shall include a tree protection plan that includes the following:

1. Location, species, size, height, canopy, condition of trees, and irrigation infrastructure within the work area.
2. Identification/location of root protection zone for each tree greater than ten (10) feet diameter four and one-half (4 ½) feet above the average ground level.
3. Identification of trees to be preserved.
4. Identification, description and location of tree protection measures (e.g. fencing, trunk protection, mulch blanket, root barrier, etc.).

11.32.080 Protecting Trees or Shrubs Prior to Construction or Repair

- A. All tree protection measures on an approved plan and/or permit shall be in place and installed to the satisfaction of the City Manager, prior to the commencement of any construction activities, including but not limited to: erecting, altering, repairing, demolishing, trenching, digging, or grading.
- B. All building materials, equipment, dirt or other debris shall be kept outside the root protection zone. Tree protection measures shall not be removed unless or until the City Manager authorizes it to be removed.

11.32.090 Protection from Electrical Wiring

No person shall permit any wire designed to carry electric current to come in contact with any tree or shrub unless protected by methods approved by the City Manager. Further, any person having or maintaining such electric service shall maintain them in such a manner safeguarding the trees and shrubs and shall make periodic adjustments whenever necessary to prevent damage to the trees and shrubs.

11.32.100 Moving Building or Object—Tree Repair, Removal or Replacement Responsibility

When the moving of any building or object along a public highway will injure, threaten, or necessitate the removal of any tree or shrub on public property, the owner or contractor shall apply for a permit, and if approved shall assume full responsibility for such removal, replacement, repair, or alteration of such trees or shrubs.

11.32.110 Protection Responsibility in Public Places

It shall be the duty of the person maintaining services or structures in a public highway, park, or public place to assume responsibility for the protection of such facilities during the progress of tree operations deemed necessary by the City Manager provided prior notice has been given said person of the existence of such tree operations.

11.32.120 Compliance with Regulations

Full compliance with all regulations of the City shall be required in reference to this chapter.

11.32.130 Enforcement

- A. It shall be the responsibility of the City Manager to see that all the provisions of this chapter are obeyed, and all complaints as to the violation of this chapter shall be presented in writing, and prosecution for all violations of this chapter shall be instituted by and shall be prosecuted in the name of the City.
- B. The City Manager may assign an inspector to supervise the provisions of all permits herein involved, and the cost of such service shall be charged to the person involved.

11.32.140 Correction Responsibility

Any person violating any of the provisions of this chapter shall assume full responsibility for the removal, replacement, repair, or alteration of such trees and shrubs according to the specifications deemed necessary by the City Manager.

11.32.150 Interference with Authority

No person shall hinder, prevent, or interfere with the agents or employees of the City while engaged in carrying out the provisions of this chapter.

11.32.160 Penalties

- A. Generally. Any person who violates any of the provisions of this chapter, or rules or orders adopted or issued pursuant to this chapter, shall be subject to any one, all, or a combination of the civil penalties prescribed by this section. Penalties assessed under this chapter are in addition to and not in lieu of compliance with the requirements of this chapter. The person performing the work, the property owner and the person contracting for the performance shall be jointly and severally liable for any penalty or other enforcement action imposed pursuant to

this chapter or other provisions of law on account of work performed in violation of this chapter.

B. Civil penalties. Civil penalties for violations of this Chapter shall be assessed pursuant to the following:

1. Failure to plant original or replacement trees in accordance with this chapter shall be subject to a fine of \$50.00 for each tree not planted. No civil penalty shall be assessed until the person alleged to be in violation has been notified of the violation and given an opportunity within a reasonable time to correct the violation. If the site is not brought into compliance within the time specified in the notice of violation, a civil penalty may be assessed from the date the notice of violation is received. The failure to plant each individual tree shall constitute a separate, daily and continuing violation.
2. Injury or damage to, or destruction of, trees and shrubs protected by sections 11.32.070 and 11.32.080 that result in the total loss of the tree or shrub shall be assessed in accordance with generally accepted industry evaluation methods for the loss of the trees and shrubs. However, the maximum civil penalty for each tree injured, damaged or destroyed shall not exceed \$20,000.00. No notice of violation is necessary prior to the assessment of a civil penalty issued pursuant to this subsection.
3. Injury or damage to, or destruction of, trees and shrubs protected by sections 11.32.070 and 11.32.080 that do not result in the total loss of the trees shall be assessed for each tree or shrub in accordance with generally accepted industry evaluation methods. However, the maximum amount of the penalty shall not exceed \$1,000.00. No notice of violation is necessary prior to the assessment of a civil penalty issued pursuant to this subsection.
4. Failure to install or maintain required tree protection measures in accordance with 11.32.070 and 11.32.080 shall be subject to \$1,000.00 fine. No civil penalty shall be assessed until the person has been notified of the violation and given an opportunity within a reasonable time to correct the violation. If the site is not brought into compliance within the time specified in the notice of violation, a civil penalty may be assessed from the date the notice of violation is received. The failure to install the required tree protection measures shall constitute a separate, daily and continuing violation. Injury or damage to, or destruction of, trees in the tree protection zone and tree save area resulting from inadequate or omitted tree protection measures constitutes a separate violation which may subject the violator to any other applicable penalty set forth in this section.
5. Any other action that constitutes a violation of this chapter may subject the violator to a civil penalty of \$50.00, and each day of continuing violation shall constitute a separate violation. However, the maximum amount of the penalty shall not exceed \$1,000.00.

C. Nonmonetary penalty. A nonmonetary penalty, in the form of increased or additional planting requirements, may be assessed in addition to or in lieu of any monetary penalties prescribed under this section.

11.32.170 City Council Review

Where practical difficulties or unnecessary hardships inconsistent with the purposes of this part result from its literal interpretation or enforcement, the City Council may waive, modify, or delay the enforcement of these provisions upon written request of the developer or the property owner, which request shall be in writing and filed with the City Clerk and shall contain any and all facts that are offered in support of said request.

Chapter 11.32 TREES

11.32.010 ~~Definitions~~ Purpose and Intent

- A. It is the purpose of this chapter to preserve, protect and promote the health, safety and general welfare of the public by providing for the regulation of trees located on thoroughfares, parks and public areas owned or controlled by the City. These regulations also apply to new developments and alterations to previous developments on private property.
- B. It is the intent of this chapter to:
1. Preserve, maintain, and care for trees on public property.
 2. Regulate the planting, maintenance and removal of trees.
 3. Establish tree planting standards to ensure that newly planted trees thrive.
 4. Protect the community from personal injury and property damage caused or threatened by improper planting, pruning, maintenance or removal of trees.
 5. Emphasize the importance of trees and vegetation as both visual and physical buffers.
 6. Improve air quality by reducing air pollution and carbon dioxide levels in the atmosphere.
 7. Reduce the effects of heat, noise, and glare from traffic and lights.
 8. Provide and preserve shade and tree canopy to reduce ambient temperatures and heat island effects.
 9. Prevent soil erosion.

11.32.020 Definitions

~~For the purposes of this chapter the following terms are defined unless from the context~~
Words and phrases used in this chapter that are not specifically defined in this section shall be interpreted so as to give them the meaning they have in common usage and to give this chapter its most reasonable application. The following words, terms and phrases, when used in this chapter, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning~~is intended~~:

~~“Park” includes all existing public parks having individual names and those to be developed in the future.~~
Adjacent property owners” means the owners of property directly adjacent to the parcel on which the subject tree is located. If the tree is located on City-owned property or right-of-way owned in fee, the “adjacent property owners” include the owners of propert(ies) within ten (10) feet of the tree and the parcels adjacent thereto.

~~“Private street or vehicular thoroughfare” includes all nonpublic ways, streets, alleys, or drives that serve as primary access to five or more dwelling units.~~ Arborist” an individual who is a specialist in the care and maintenance of trees and is certified by the International Society of Arboriculture (ISA) or is a registered consulting arborist certified by the American Society of Consulting Arborists (ASCA) in good standing.

“City Manager” means the City Manager of the City or his/her designee.

“Park” includes all existing public parks and those to be developed in the future.

“Park Tree” includes all trees, shrubs and other woody vegetation growing in existing public parks and those to be developed in the future.

“Public places” includes all other areas owned by the City or to which the public has free access.

“Public thoroughfare” includes all land lying between property lines on either side of all City streets, alleys, and boulevards.

~~“Trees and shrubs” includes all woody vegetation. (2804 § 2, 2011; 768 § 2, 1964; prior code § 7200)~~ Root protection zone” means, generally, 18 inches (18”) to 24 inches (24”) deep and a distance from the trunk of a tree equal to one-half its height or its drip line, whichever is greater.

11.32.020-Permits City Jurisdiction and Authority

~~Written permission of the City Manager or his or her authorized agents shall be obtained by all persons before committing any of the following acts:~~

- A. ~~Removing, cutting, pruning, breaking, injuring, defacing, or in any other way interfering with any tree or shrub, or any part thereof, either above or below the ground, growing on any public thoroughfare, park, or public place.~~ The City Manager shall have the jurisdiction, authority, control, supervision and direction over all trees planted or growing in the City, except where exempted in this chapter.
- B. ~~Planting any tree or shrub on any public thoroughfare, park, or public place until such tree or shrub be approved and the planting space designated.~~ The City Manager shall prepare and publish guidelines and specifications for tree planting, tree species selection, care, maintenance, removal and landscape design in a document entitled "Tree Ordinance Guidelines" for reference and use by property owners, developers, consultants and the general public in furtherance of the requirements and intent of this chapter. The Tree Ordinance Guidelines shall be reviewed periodically by the Planning Commission.
- C. ~~Spraying with any chemical any tree or shrub on any public thoroughfare, park, or public place.~~ The City Manager shall review all applications for permits for any planting, removal and/or trimming or cutting of trees subject to this chapter and shall have the authority to grant or deny permits and to attach reasonable conditions to the granting of a permit.
- D. ~~Securing any rope, wire, sign, or other device on or about such tree or shrub.~~

E. ~~Removing or injuring any guard or device on or about the base of a tree or shrub to permit access of water, air, and/or fertilizer.~~

F. ~~Closing or obstructing any open space provided about the base of a tree or shrub to permit access of water, air, and/or fertilizer. (2804 § 2, 2011; prior code § 7201)~~

11.32.030 Nuisance Abatement

~~Any~~A A tree, shrub, or part thereof ~~in the City that interferes~~shall be declared a nuisance, if one or more of the following conditions are met:

1. Interferes with the use of any public thoroughfare, park, or public place ~~or is.~~

2. Is unsafe and constitutes a hazard to the life, health, safety, or property of the public, ~~or constitutes.~~

3. Constitutes a center of infection for disease or insects that may endanger the health and life of other trees or shrubs ~~shall be declared a public.~~

B. In the event of a nuisance ~~and the owner thereof shall be required to correct or remove it. The,~~
the owner shall be notified in writing of the existence of such public nuisance and given reasonable time for its correction or removal. If not corrected or removed within the time allowed, the City Manager ~~or his or her designee~~ shall cause said nuisance to be corrected or removed ~~at once~~, and initiate such procedures or court action as necessary to defray all cost resulting therefrom. ~~(2804 § 2, 2011; prior code § 7202)~~

11.32.040 ~~Placing Injurious Substance~~ Protection for Trees on Public ~~Place~~ Property

A. No person shall spray, fertilize, remove, destroy, cut, top, or otherwise severely prune, including the root system, or treat any tree or shrub having all or any portion of its trunk in or upon any public property without first obtaining a written permit from the City, and without complying strictly with the provisions of the permit, this chapter, and the "Tree Ordinance Guidelines."

B. No person shall plant any tree or shrub on any public street right-of-way or public property without first obtaining a permit from the City and without complying strictly with the provisions of the permit, the provisions of this chapter and the "Tree Ordinance Guidelines."

C. No person shall damage, cut, or carve any tree or shrub having all or any portion of its trunk in or upon any public property; attach any object, including, but not limited to, rope, wire, nail, chain or sign to any such tree or shrub, or to the guard or stake intended for the protection of such tree.

D. No person shall place, store, deposit, or maintain, upon the ground in any public street or public place, any compacted stone, cement, brick, sand or other materials which may impede or obstruct the free passage of air, water and fertilizer to the roots of any tree or shrub growing in any such street or public place without written authorization from the City.

E. No person shall change the natural drainage; excavate any ditches, tunnels, or trenches; or lay any drive within the root protection zone of any tree having all or any portion of its trunk in or upon any public property without obtaining a permit from the City and without strictly complying with the provisions of the permit and provisions of this Chapter.

F. No person shall perform, or contract with another to perform, excavation or construction work within the drip line of any tree having all or any portion of its trunk in or upon any public property without first obtaining a permit in accordance with this chapter.

G. No person shall place salt, oil, or any other substance injurious to plant growth upon any public thoroughfare, park, or public place in such manner as to injure any tree or shrub growing thereon. ~~(2804 § 2, 2011; prior code § 7203(a))~~

~~11.32.050 Injury from Fire or Fumes~~

H. No person shall build any fire or station any engine in any public place in such a manner that the heat, vapors, or fumes therefrom may injure the trees or shrubs growing thereon. ~~(2804 § 2, 2011; prior code § 7203(b))~~

~~11.32.060 Leak in Gas Pipe or Main~~

I. No person shall permit any leak to exist in any gas pipe or main within the root zone of any tree or shrub. ~~(2804 § 2, 2011; prior code § 7203(c))~~

~~11.32.070 Injurious Chemicals~~

J. No person shall allow or continue to pollute the air surrounding any tree or shrub with toxic smoke, gases, or other injurious chemicals that may be harmful to the health or life of such tree or shrub. ~~(2804 § 2, 2011; prior code § 7203(d))~~

K. Liability for damages or injuries to any tree or shrub having all or any portion of its trunk in or upon public property resulting from a violation of this chapter shall be determined by the City in accordance with section 11-32-160. The person performing the work, the property owner and the person contracting for the performance of the work shall be jointly and severally liable for any penalties or other enforcement action imposed pursuant to this chapter, or other provisions of law on account of work performed in violation of this chapter. However, no claims shall be made more than five (5) years after damage can be proven to have occurred.

L. Any tree service performing tree pruning or removal activities on public property must have an arborist or authorized City employee, as defined in this chapter, present onsite to perform or oversee the work. [Query: Is this compliant with our tree trimming contract?]

11.32.050 Permit Application and Issuance

A. No permit shall be issued under this chapter until the application is submitted and the appropriate fee is paid, not less than two (2) weeks in advance of the time the work is to be done, unless otherwise permitted by the City Manager to abate an immediate hazard.

- B. The City Manager shall issue the appropriate permit as provided for herein if, in his or her judgment, the proposed work adheres to specifications contained in this chapter and in the Tree Ordinance Guidelines.
- C. The person receiving the permit shall abide by all conditions stated on the permit and by the standards established in the Tree Ordinance Guidelines.
- D. Any Tree Permit granted shall contain a definite date of expiration. The work shall be completed in the time allowed on the permit, and only in the manner as therein described.
- E. Notice of completion shall be given within five (5) days to the City Manager for inspection.
- F. Where a Tree Permit for removal has been denied, the property owner may appeal the decision to the City Manager within ten (10) days of the denial. The appeal may be heard by an official or designee not involved in the denial of the permit. The decision of the official or designee shall be final.

11.32.060 Resident Petition for Street Tree Removal and Replacement

A petition may be presented by citizen action in a given area for the removal and replacement of existing City trees, if in the opinion of the petitioners, the trees are undesirable. The following conditions must be met:

- 1. The petition must be signed by the adjacent property owners in accordance with the following percentage schedule based upon the number of trees involved:
 - a. 0 to 15 Trees 75%
 - b. 16 to 25 Trees 80%
 - c. 26 trees and over 85%
- 2. All costs for removal and mitigation will be borne by the petitioner. Mitigation may include replacement with an approved species, or payment of fees as established by resolution of the City Council.
- 3. The work is to be performed by contract, under City specifications and administered by the City. The cost will be determined by the City Manager, and would be placed on deposit with the City prior to removal being initiated.
- 4. It will be the responsibility of the petitioners to collect and deposit the necessary funds with the City to cover the cost of the project.
- 5. In that granting requests initiated by petitions is discretionary, each petition request will be considered individually, and will be determined on the merits of the individual request.

11.32.080 Permit Certification Where Trees or Shrubs Are Involved

11.32.070 Construction and Utility Projects

The City Manager ~~or his or her designee~~ shall ~~certify~~review and approve all plans and City permits for construction, installation, altering, moving, or razing of all buildings, utilities, sidewalks, sewers, or other operations where trees or shrubs, or parts thereof are involved. ~~(2804 § 2, 2011; prior code § 7204(a))~~
Plans and permits shall include a tree protection plan that includes the following:

1. Location, species, size, height, canopy, condition of trees, and irrigation infrastructure within the work area.
2. Identification/location of root protection zone for each tree greater than ten (10) feet diameter four and one-half (4 ½) feet above the average ground level.
3. Identification of trees to be preserved.
4. Identification, description and location of tree protection measures (e.g. fencing, trunk protection, mulch blanket, root barrier, etc.).

11.32.080 Protecting Trees or Shrubs Prior to Construction or Repair

~~**11.32.090 Protecting Trees or Shrubs Prior to Construction or Repair**~~

- A. All tree protection measures on an approved plan and/or permit shall be in place and installed to the satisfaction of the City Manager, prior to the commencement of any construction activities, including but not limited to: erecting, altering, repairing, demolishing, trenching, digging, or grading.

~~Prior to the erection, altering, repairing, or razing of any building, sidewalk, or other structure the owner or contractor thereof shall place guards around all public trees and shrubs as will effectually prevent injury to such trees and shrubs. (2804 § 2, 2011; prior code § 7204(b))~~

- B. All building materials, equipment, dirt or other debris shall be kept outside the root protection zone. Tree protection measures shall not be removed unless or until the City Manager authorizes it to be removed.

~~**11.32.100**~~ **11.32.090 Protection from Electrical Wiring**

No person shall permit any wire designed to carry electric current to come in contact with any tree or shrub unless protected by methods approved ~~methods; further~~by the City Manager. Further, any person having or maintaining such electric service shall maintain them in such a manner ~~as will safeguard~~safeguarding the trees and shrubs and shall make periodic adjustments whenever necessary to prevent damage to ~~same. (2804 § 2, 2011; prior code § 7204(c))~~the trees and shrubs.

~~**11.32.110**~~ **11.32.100 Moving Building or Object—Tree Repair, Removal or Replacement Responsibility**

When the moving of any building or object along a public highway will injure, threaten, or necessitate the removal ~~or injury or threaten the safety~~ of any tree or shrub on public property, the owner or contractor ~~thereof~~shall apply for a permit, and if approved shall assume full responsibility for such removal, replacement, repair, or alteration of such trees or shrubs. ~~(2804 § 2, 2011; prior code § 7204(d))~~

~~**11.32.120**~~ **11.32.110 Protection Responsibility in Public Places**

It shall be the duty of the person maintaining services or structures in a public highway, park, or public place to assume responsibility for the protection of such facilities during the progress of tree operations deemed necessary by the City Manager ~~or his or her designee providing~~ provided prior notice has been given said person of the existence of such tree operations. ~~(2804 § 2, 2011; prior code § 7204(e))~~

~~11.32.130~~ 11.32.120 **Compliance with Regulations**

Full compliance with all regulations of the City shall be required in reference to this chapter. ~~(2804 § 2, 2011; prior code § 7204(f))~~

~~11.32.140~~ 11.32.130 **Enforcement**

- A. It shall be the ~~duty~~ responsibility of the City Manager ~~or his or her designee~~ to see that all the provisions of this chapter are obeyed, and all complaints as to the violation of this chapter shall be presented in writing, and prosecution for all violations of this chapter shall be instituted by and shall be prosecuted in the name of the City.
- B. The City Manager ~~or his or her designee reserves the right to~~ may assign an inspector to supervise the provisions of all permits herein involved, and the cost of such service shall be charged to the person involved. ~~(2804 § 2, 2011; prior code § 7205)~~

~~11.32.150~~ 11.32.140 **Correction Responsibility**

Any person violating any of the provisions of this chapter shall assume full responsibility for the removal, replacement, repair, or alteration of such trees and shrubs according to the specifications deemed necessary by the City Manager ~~or his or her designee~~. ~~(2804 § 2, 2011; prior code § 7206)~~.

~~11.32.160~~ 11.32.150 **Interference with Authority**

No person shall hinder, prevent, or interfere with the agents or employees of the City while engaged in carrying out the provisions of this chapter. ~~(2804 § 2, 2011; prior code § 7207)~~

11.32.160 Penalties

- A. Generally. Any person who violates any of the provisions of this chapter, or rules or orders adopted or issued pursuant to this chapter, shall be subject to any one, all, or a combination of the civil penalties prescribed by this section. Penalties assessed under this chapter are in addition to and not in lieu of compliance with the requirements of this chapter. The person performing the work, the property owner and the person contracting for the performance shall be jointly and severally liable for any penalty or other enforcement action imposed pursuant to this chapter or other provisions of law on account of work performed in violation of this chapter.
- B. Civil penalties. Civil penalties for violations of this Chapter shall be assessed pursuant to the following:

1. Failure to plant original or replacement trees in accordance with this chapter shall be subject to a fine of \$50.00 for each tree not planted. No civil penalty shall be assessed until the person alleged to be in violation has been notified of the violation and given an opportunity within a reasonable time to correct the violation. If the site is not brought into compliance within the time specified in the notice of violation, a civil penalty may be assessed from the date the notice of violation is received. The failure to plant each individual tree shall constitute a separate, daily and continuing violation.
 2. Injury or damage to, or destruction of, trees and shrubs protected by sections 11.32.070 and 11.32.080 that result in the total loss of the tree or shrub shall be assessed in accordance with generally accepted industry evaluation methods for the loss of the trees and shrubs. However, the maximum civil penalty for each tree injured, damaged or destroyed shall not exceed \$20,000.00. No notice of violation is necessary prior to the assessment of a civil penalty issued pursuant to this subsection.
 3. Injury or damage to, or destruction of, trees and shrubs protected by sections 11.32.070 and 11.32.080 that do not result in the total loss of the trees shall be assessed for each tree or shrub in accordance with generally accepted industry evaluation methods. However, the maximum amount of the penalty shall not exceed \$1,000.00. No notice of violation is necessary prior to the assessment of a civil penalty issued pursuant to this subsection.
 4. Failure to install or maintain required tree protection measures in accordance with 11.32.070 and 11.32.080 shall be subject to \$1,000.00 fine. No civil penalty shall be assessed until the person has been notified of the violation and given an opportunity within a reasonable time to correct the violation. If the site is not brought into compliance within the time specified in the notice of violation, a civil penalty may be assessed from the date the notice of violation is received. The failure to install the required tree protection measures shall constitute a separate, daily and continuing violation. Injury or damage to, or destruction of, trees in the tree protection zone and tree save area resulting from inadequate or omitted tree protection measures constitutes a separate violation which may subject the violator to any other applicable penalty set forth in this section.
 5. Any other action that constitutes a violation of this chapter may subject the violator to a civil penalty of \$50.00, and each day of continuing violation shall constitute a separate violation. However, the maximum amount of the penalty shall not exceed \$1,000.00.
- C. Nonmonetary penalty. A nonmonetary penalty, in the form of increased or additional planting requirements, may be assessed in addition to or in lieu of any monetary penalties prescribed under this section.

11.32.170 City Council Review

Where practical difficulties or unnecessary hardships inconsistent with the purposes of this part result from its literal interpretation or enforcement, the City Council may waive, modify, or delay the enforcement of these provisions upon written request of the developer or the property owner, which

request shall be in writing and filed with the City Clerk and shall contain any and all facts that are offered in support of said request. ~~(2804 § 2, 2011; 768 § 2, 1964; prior code § 7213)~~

Document comparison by Workshare 9.5 on Friday, March 12, 2021 6:08:55 PM

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Document 2 ID	interwovenSite://DMS-WSS-LAW.ONACP.COM/IMDB1/1563868/2
Description	#1563868v2<IMDB1> - GGMC Chapter 11.32 RE TREES 2021 REV
Rendering set	Standard

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Deletion	
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Style change	
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Moved deletion	
Inserted cell	
Deleted cell	
Moved cell	
Split/Merged cell	
Padding cell	

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Deletions	65
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Moved to	1
Style change	0
Format changed	0
Total changes	173

City of Garden Grove

INTER-DEPARTMENT MEMORANDUM

To: Scott C. Stiles From: William E. Murray
Dept.: City Manager Dept.: Public Works
Subject: Award of a contract to CT&T Concrete Paving, Inc. for On-
Call Concrete Construction,
IFB No. S-1281. (Cost:
\$600,000 each year for 5
years) (*Action Item*)

OBJECTIVE

To receive City Council approval to award a contract to CT&T Concrete Paving Inc. for the On-Call Concrete Construction IFB No. S-1281 on various city streets and right-of-way.

BACKGROUND

The City's goal is to replace high severity defects in residential sidewalks, driveway approaches, wheel chair ramps and cross-gutters to reduce slip, trip, and fall claims. The repair of damaged curbs and gutters will also help ensure proper storm and nuisance water drainage, which will aid in efficient stormwater movement and mosquito control.

DISCUSSION

In response to prescribed bidding procedures, three (3) bids were received and were deemed responsive. The bid results are as follows:

Contractor	Option A	Option B	Total Bid (A&B)
CT&T Concrete Paving, Inc. Diamond Bar, CA	\$1,506,350	\$1,715,314	\$3,221,664
CJ Concrete Construction Santa Fe Springs, CA	\$1,735,000	\$2,171,588	\$3,906,588
Onyx Paving Company, Inc. Anaheim CA	\$2,190,000	\$3,417,620	\$5,607,620

Staff has examined the bids received and determined that the lowest responsible bidder is CT&T Concrete Paving Inc. Upon researching the proposed contractor's service history, no discrepancies were found in customer service.

Bid prices for Option A (work completed using a combination of City crews and contractor) will not be utilized. Option B, (contractor completes all work) was submitted by bidders with the understanding that all work quantities given by the City were estimates. The project quantities are anticipated amounts that were used as a basis for bidding purposes. Actual available resources are limited to \$600,000 for the first year and \$600,000 per year for up to four (4) additional one-year extensions

FINANCIAL IMPACT

Funding for this project is available in the Fiscal Year 2021/2022 Street Division Budget with a not-to-exceed amount per year of \$600,000 with a total contract for five (5) years of \$3,000,000. A termination clause has been included in the contract should funding become unavailable.

RECOMMENDATION

It is recommended that the City Council:

- Award the contract to the lowest responsible bidder, CT&T Concrete Paving Inc., in the amount of \$600,000 for the first year, and four option years at \$600,000 per year, for On-Call concrete construction; and
- Authorize the City Manager to execute the agreement on behalf of the City and make minor modifications as appropriate.

By: Raul Leyva, Streets Supervisor

ATTACHMENTS:

Description	Upload Date	Type	File Name
CT&T Concrete Paving, Inc. contract	5/3/2021	Agreement	CT_T_Concrete_Paving_Inc._contract.pdf

SECTION 4 - AGREEMENT

PROJECT AGREEMENT

THIS AGREEMENT is made this ____ day of _____, 2021 by the CITY OF GARDEN GROVE, a municipal corporation, ("CITY"), and CT&T Concrete Paving, Inc., hereinafter referred to as ("CONTRACTOR").

RECITALS:

The following recitals are a substantive part of this Agreement:

This Agreement is entered into pursuant to Garden Grove COUNCIL AUTHORIZATION, DATED _____.

CITY desires to utilize the services of Furnish All Labor, Material and Equipment for On-Call Concrete Construction at Various Locations for the City of Garden Grove per City standards and specifications.

CONTRACTOR is qualified by virtue of experience, training, education, and expertise to accomplish services.

AGREEMENT

THE PARTIES MUTUALLY AGREE AS FOLLOWS:

4.0 **Compensation.** CONTRACTOR shall be compensated as follows: Compensation under this agreement shall be a Not to exceed (NTE) amount of Six Hundred Thousand Dollars (\$600,000.00), per year, payable in arrears and in accordance with Bid Proposal (Attachment B), which is attached and is hereby incorporated by reference. Payment for work under this Agreement shall be made per invoice or request for work completed subject to Section 4.11 hereof. All work shall be in accordance with Bid No. S-1281 and the Plans and Specifications (Attachment A and Appendix A), which are attached and are hereby incorporated by reference.

Pricing shall remain firm for the first year of the performance period. Thereafter, contractor may request pricing increase prior to the signing of each option year.

At the request of the CONTRACTOR, the CITY may adjust all item prices by the amount in the increase or decrease during the previous twelve (12) months in the Los Angeles, Anaheim, Riverside All Urban Consumers Index. To determine the percent increase or decrease, the term "previous twelve months" shall mean the twelve-month period ending March 31 of that year, or if not available, the prior month. The City shall then have the option of increasing the rate of compensation, decreasing the scope of work, or terminating the agreement.

4.1 General Conditions. CONTRACTOR certifies and agrees that all the terms, conditions and obligations of the Contract Documents as hereinafter defined, the location of the job site, and the conditions under which the work is to be performed have been thoroughly reviewed, and enters into this Contract based upon CONTRACTOR'S investigation of all such matters and is in no way relying upon any opinions or representations of CITY. It is agreed that this Contract represents the entire agreement. It is further agreed that the Contract Documents including the Notice Inviting Bids, Special Instructions to Bidders, if any, Plans and Specifications, and Contractor's Proposal, are incorporated in this Contract by reference, with the same force and effect as if the same were set forth at length herein, and that CONTRACTOR and its subcontractors, if any, will be and are bound by any and all of said Contract Documents insofar as they relate in any part or in any way, directly or indirectly, to the work covered by this Contract.

"**Project**" as used herein defines the entire scope of the work covered by all the Contract Documents. Anything mentioned in the Specifications and not indicated in the Plans, or indicated in the Plans and not mentioned in the Specifications, shall be of like effect as if indicated and mentioned in both. In case of discrepancy in the Plans or Specifications, the matter shall be immediately submitted to City's Engineer, without whose decision CONTRACTOR shall not adjust said discrepancy save only at CONTRACTOR'S own risk and expense. The decision of the Engineer shall be final.

4.2 Materials and Labor. CONTRACTOR shall furnish, under the conditions expressed in the Plans and Specifications, at CONTRACTOR'S own expense, all labor and materials necessary, except such as are mentioned in the Specifications to be furnished by the CITY, to complete the project, in good workmanlike and substantial order. If CONTRACTOR fails to pay for labor or materials when due, CITY may settle such claims by making demand upon the surety to this Agreement. In the event of the failure or refusal of the surety to satisfy said claims, CITY may settle them directly and deduct the amount of payments from the Contract price and any amounts due to CONTRACTOR. In the event CITY receives a stop notice from any laborer or material supplier alleging non-payment by CONTRACTOR, CITY shall be entitled to deduct all of its costs and expenses incurred relating thereto, including but not limited to administrative and legal fees.

4.3 Project. The PROJECT is described as Furnish All Labor, Material and Equipment for On-Call Concrete Construction at Various Locations for the City of Garden Grove per City standards and specifications.

4.4 Plans and Specifications. The work to be done is described in a set of detailed Plans and Specifications for: Furnish All Labor, Material and Equipment for On-Call Concrete Construction at Various Locations for the City of Garden Grove per City standards and specifications

Said Plans and Specifications and any revisions, amendments or addenda thereto are attached hereto and incorporated herein as part of this Contract and referred to by reference. The work to be done must also be in accordance with the General Provisions, Standard Specifications and Standard Plans of City which are also incorporated herein and referred to by reference.

4.5 Time of Commencement and Completion. The term of this agreement shall be in effect from May 24, 2021 to May 23, 2022, with an option authorizing the City Manager or Designee to continue said agreement on a year-to-year basis to a maximum of four (4) additional years. In order to exercise this option, the CITY shall provide CONTRACTOR thirty (30) days' notice prior to May 23, 2022 and May 23 of each subsequent year (if applicable), of its desire to extend the agreement. CONTRACTOR agrees to provide the services described in attached bid sheet for said additional period, should the CITY give the required notice. This agreement may be terminated by the CITY without cause. CONTRACTOR agrees to commence the Project within TEN (10) calendar days from the date set forth in the "Notice to Proceed".

4.6 Time is of the Essence. Time is of the essence of this Contract. As required by the Contract Documents, CONTRACTOR shall prepare and obtain approval of all shop drawings, details and samples, and do all other things necessary and incidental to the prosecution of CONTRACTOR'S work in conformance with an approved construction progress schedule. CONTRACTOR shall coordinate the work covered by this Contract with that of all other contractors, subcontractors and of the CITY, in a manner that will facilitate the efficient completion of the entire work in accordance with Section 4.5 herein. CITY shall have complete control of the premises on which the work is to be performed and shall have the right to decide the time or order in which the various portions of the work shall be installed or the priority of the work of other subcontractors, and, in general, all matters representing the timely and orderly conduct of the work of CONTRACTOR on the premises.

4.7 Excusable Delays. CONTRACTOR shall be excused for any delay in the prosecution or completion of the Project caused by acts of God; inclement weather; damages caused by fire or other casualty for which CONTRACTOR is not responsible; and act, neglect or default of CITY; failure of CITY to make timely payments to CONTRACTOR; late delivery of materials required by this CONTRACT to be furnished by CITY; combined action of the workers in no way caused by or resulting from default or collusion on the part of CONTRACTOR; a lockout by CITY; or any other delays unforeseen by CONTRACTOR and beyond CONTRACTOR'S reasonable control.

City shall extend the time fixed in Section 4.5 herein for completion of the Project by the number of days CONTRACTOR has thus been delayed, provided that CONTRACTOR presents a written request to CITY for such time extension within fifteen (15) days of the commencement of such delay and CITY finds that the delay is justified. CITY'S decision will be conclusive on the parties to this Contract.

Failure to file such request within the time allowed shall be deemed a waiver of the claim by CONTRACTOR.

No claims by CONTRACTOR for additional compensation or damages for delays will be allowed unless CONTRACTOR satisfies CITY that such delays were unavoidable and not the result of any action or inaction of CONTRACTOR and that CONTRACTOR took all available measures to mitigate such damages. Extensions of time and extra compensation as a result of incurring undisclosed utilities will be determined in accordance with Section 9-103A of the State of California Department of Transportation Standard Specifications. The CITY'S decision will be conclusive on all parties to this Contract.

4.8 Extra Work. The Contract price includes compensation for all work performed by CONTRACTOR, unless CONTRACTOR obtains a written change order signed by a designated representative of CITY specifying the exact nature of the extra work and the amount of extra compensation to be paid all as more particularly set forth in Section 4.9 hereof. CITY shall extend the time fixed in Section 4.5 for completion of the Project by the number of days reasonably required for CONTRACTOR to perform the extra work, as determined by CITY'S Engineer. The decision of the Engineer shall be final.

4.9 Changes in Project.

4.9.1 CITY may at any time, without notice to any surety, by written order designated or indicated to be a change order, make any change in the work within the general scope of the Contract, including but not limited to changes:

- a. in the Specifications (including drawings and designs);
- b. in the time, method or manner of performance of the work;
- c. in the City-furnished facilities, equipment, materials, services or site; or
- d. directing acceleration in the performance of the work.

4.9.2 A change order shall also be any other written order (including direction, instruction, interpretation or determination) from the CITY which causes any change, provided CONTRACTOR gives the CITY written notice stating the date, circumstances and source of the order and that CONTRACTOR regards the order as a change order.

4.9.3 Except as provided in this Section 4.9, no order, statement or conduct of the CITY or its representatives shall be treated as a change under this Section 9 or entitle CONTRACTOR to an equitable adjustment.

4.9.4 If any change under this Section 4.9 causes an increase or decrease in CONTRACTOR'S actual, direct cost or the time required to perform any part of the work under this Contract, whether or not changed by any order, the CITY shall make an equitable adjustment and modify the

Contract in writing. Except for claims based on defective specifications, no claim for any change under paragraph (4.9.2) above shall be allowed for any costs incurred more than 20 days before the CONTRACTOR gives written notice as required in paragraph (4.9.2). In the case of defective specifications for which the CITY is responsible, the equitable adjustment shall include any increased direct cost CONTRACTOR reasonably incurred in attempting to comply with those defective specifications.

4.9.5 If CONTRACTOR intends to assert a claim for an equitable adjustment under this Section 4.9, it must, within thirty (30) days after receipt of a written change order under paragraph (4.9.1) or the furnishing of a written notice under paragraph (4.9.2), submit a written statement to the CITY setting forth the general nature and monetary extent of such claim. The CITY may extend the 30-day period. CONTRACTOR may include the statement of claim in the notice under paragraph (4.9.2) of this Section 4.9.

4.9.6 No claim by CONTRACTOR for an equitable adjustment shall be allowed if made after final payment under this Agreement.

4.9.7 CONTRACTOR hereby agrees to make any and all changes, furnish the materials and perform the work that CITY may require without nullifying this Contract. CONTRACTOR shall adhere strictly to the Plans and Specifications unless a change therefrom is authorized in writing by the CITY. Under no condition shall CONTRACTOR make any changes to the Project, either in additions or deduction, without the written order of the CITY and the CITY shall not pay for any extra charges made by CONTRACTOR that have not been agreed upon in advance in writing by the CITY. CONTRACTOR shall submit immediately to the CITY written copies of its firm's cost or credit proposal for change in the work. Disputed work shall be performed as ordered in writing by the CITY and the proper cost or credit breakdowns therefor shall be submitted without delay by CONTRACTOR to CITY.

4.10 Liquidated Damages for Delay. The parties agree that if the total work called for under this Contract, in all parts and requirements, is not completed within the time specified in Section 4.5 herein, plus the allowance made for delays or extensions authorized under Section 4.7, 4.8 and 4.9 herein, the CITY will sustain damage which would be extremely difficult and impractical to ascertain. The parties therefore agree that CONTRACTOR will pay to CITY the sum of two hundred and fifty dollars (\$250.00) per day for each and every calendar day during which completion of the Project is so delayed. CONTRACTOR agrees to pay such liquidated damages and further agrees that CITY may offset the amount of liquidated damages from any moneys due or that may become due CONTRACTOR under the Contract.

4.11 Contract Price and Method of Payment. CITY agrees to pay and the CONTRACTOR agrees to accept as full consideration for the faithful performance of this Contract, subject to any subsequent additions or deductions as provided in approved change orders, the sum as itemized in the bid proposal. Progress payments shall be made to the CONTRACTOR per month for each successive month as the work progresses. The CONTRACTOR shall be paid such sum as will bring the total payments received since the commencement of the work up to ninety five percent (95%) of the value of the work completed, less all previous payments, provided that the CONTRACTOR submits the request for payment prior to the end of the day required to meet the payment schedule. The CITY will retain five percent (5%) of the amount of each such progress estimate and material cost until 30 days after the recordation of the Notice of Completion.

Payments shall be made on demands drawn in the manner required by law, accompanied by a certificate signed by the CITY'S Engineer, stating that the work for which payment is demanded has been performed in accordance with the terms of the Contract. Partial payments of the Contract price shall not be considered as an acceptance of any part of the work.

4.12 Substitution of Securities in Lieu of Retention of Funds. Pursuant to California Public Contract Code Section 22300, the CONTRACTOR will be entitled to post approved securities with the CITY or an approved financial institution in order to have the CITY release funds retained by the CITY to ensure performance of the Contract. CONTRACTOR shall be required to execute an addendum to this Contract together with escrow instructions and any other documents in order to effect this substitution.

4.13 Completion. CITY may require affidavits or certificates of payment and/or releases from any subcontractor, laborer or material supplier in connection with Stop Notices, which have been filed under the provisions of the statutes of the State of California.

4.14 Contractor's Employee Compensation.

4.14.1 General Prevailing Rate. CITY has ascertained CONTRACTOR shall comply with all applicable requirements of Division 2, Part 7, Chapter 1 of the California Labor Code and all applicable federal requirements respecting the payment of prevailing wages. If there is a difference between the minimum wage rates predetermined by the Secretary of Labor and the prevailing wage rates determined by the Director of the Department of Industrial Relations (DIR) for similar classifications of labor, the CONTRACTOR and its Subcontractors shall pay not less than the higher wage rate. The DIR will not accept lower State wage rates not specifically included in the Federal minimum wage determinations. This includes "helper" (or other classifications based on hours of experience) or any other classification not appearing in the Federal Wage determinations. Where Federal wage determinations do not contain the State wage rate determination otherwise available for use by the CONTRACTOR and

Subcontractors, the CONTRACTOR and its Subcontractors shall pay not less than the Federal Minimum wage rate which most closely approximates the duties of the employees in question.

4.14.2 Forfeiture for Violation. CONTRACTOR shall, as a penalty to the CITY, forfeit one hundred dollars (\$100.00) for each calendar day or portion thereof for each worker paid (either by the CONTRACTOR or any subcontractor under it) less than the prevailing rate of per diem wages as set by the Director of Industrial Relations, in accordance with Sections 1770-1780 of the California Labor Code for the work provided for in this Contract, all in accordance with Section 1775 of the Labor Code of the State of California.

4.14.3 Apprentices. Section 1777.5, 1777.6 and 1777.7 of the Labor Code of the State of California, regarding the employment of apprentices is applicable to this Contract and the CONTRACTOR shall comply therewith; provided, however, that this requirement shall not apply if and/or to the extent that the Contract of the general CONTRACTOR, or the contracts of specialty contractors not bidding for work through a general or prime contractor involves less than thirty thousand dollars (\$30,000.00).

4.14.4 Workday. In the performance of this Contract, not more than eight (8) hours shall constitute a day's work, and CONTRACTOR shall not require more than eight (8) hours of labor in a day from any person employed by him thereunder except as provided in paragraph (4.14.1) above. CONTRACTOR shall conform to Article 3, Chapter 1, Part 7 (Sections 1810 et seq.) of the Labor Code of the State of California and shall forfeit to the CITY as a penalty, the sum of twenty-five dollars (\$25.00) for each worker employed in the execution of this Contract by CONTRACTOR or any subcontractor for each calendar day during which any worker is required or permitted to labor more than eight (8) hours in any one calendar day and forty (40) hours in any one week in violation of said Article. CONTRACTOR shall keep an accurate record showing the name and actual hours worked each calendar day and each calendar week by each worker employed by CONTRACTOR in connection with the Project.

4.14.5 Record of Wages: Inspection. CONTRACTOR agrees to maintain accurate payroll records showing the name, address, social security number, work classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker or other employee employed by it in connection with the Project and agrees to require that each of its subcontractors does the same. The applicable CONTRACTOR or subcontractor or its agent having authority over such matters shall certify all payroll records as accurate. CONTRACTOR further agrees that its payroll records and those of its subcontractors shall be available to the employee or employee's representative, the Division of Labor Standards Enforcement, and the Division of Apprenticeship Standards and shall comply with all of the

provisions of Labor Code Section 1776, in general. CONTRACTOR shall comply with all of the provisions of Labor Code Section 1776, and shall submit payroll records to the Labor Commissioner pursuant to Labor Code section 1771.4(a)(3).

4.14.6 CONTRACTOR REGISTRATION; MAINTENANCE OF PAYROLL RECORDS; JOB SITE POSTING

4.14.6.1 **Contractor Registration.** CONTRACTOR and its subcontractors must be registered with the California Department of Industrial Relations pursuant to Labor Code Section 1725.5. This Agreement shall not be effective until CONTRACTOR provides proof of registration to the CITY.

4.14.6.2 **Payroll Records.** CONTRACTOR shall maintain accurate payroll records and shall comply with all of the provisions of Labor Code Section 1776, and shall submit payroll records to the Labor Commissioner pursuant to Labor Code section 1771.4(a)(3).

4.14.6.3 **Posting of Job Site Notices.** CONTRACTOR shall comply with the job site notices posting requirements established by the Labor Commissioner pursuant to Title 8, California Code of Regulations Section 16461(e) or other regulation promulgated pursuant to Labor Code Section 1771.4(a)(2).

4.14.6.4 **Notice of DIR Compliance Monitoring and Enforcement.** Pursuant to Labor Code Section 1771.4, this Project is subject to compliance monitoring and enforcement by the California Department of Industrial Relations.

4.15 Surety Bonds. CONTRACTOR shall, upon entering into performance of this Agreement, furnish bonds in the amount of one hundred percent (100%) of the Contract price bid, to guarantee the faithful performance of the work, and the other in the amount of one hundred percent (100%) of the Contract price bid to guarantee payment of all claims for labor and materials furnished. This Contract shall not become effective until such bonds are supplied to and approved by the CITY. The Surety Company must have an AM Best rating of A- VII or better.

4.16 Insurance.

4.16.1 CONTRACTOR is also aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for Workers' Compensation or undertake self-insurance with provisions of that Code and will comply with such provisions before commencing the performance of the work of this Contract.

4.16.2 CONTRACTOR and all subcontractors will carry and provide Workers' Compensation insurance for the protection of its employees during the progress of the work and *provide Employers Liability in an amount not less than \$1,000,000*. The insurer shall waive its rights of subrogation against the CITY, its officers, agents and employees and shall issue a certificate to the policy evidencing same.

4.16.3 For any claims related to this Agreement, CONTRACTOR'S insurance coverage shall be primary insurance as respects CITY, its officers, officials, employees, agents, and volunteers. Any insurance or self-insurance maintained by the CITY, its officers, officials, employees, agents, or volunteers shall by excess of the CONTRACTOR'S insurance and shall not contribute with it.

4.16.4 Before CONTRACTOR performs any work at, or prepares or delivers materials to, the site of construction, CONTRACTOR shall furnish certificates of insurance and endorsements evidencing the foregoing insurance coverage and such certificates of insurance and endorsements shall provide the name and policy number of each carrier and that the insurance is in force and will not be cancelled without 30 days written notice to the CITY. CONTRACTOR shall maintain all of the foregoing insurance in force until the work under this contract is satisfactorily and fully completed to the satisfaction of the CITY. The requirement for carrying the foregoing insurance shall not derogate from the provisions for indemnification of CITY by Contractor under Section 4.17 of this Contract. Notwithstanding nor diminishing the obligations of CONTRACTOR with respect to the foregoing, CONTRACTOR shall subscribe for and maintain in full force and effect during the life of this Contract, the following insurance in amounts not less than the amounts specified and issued by a company having a Best's Guide Rate of A-, Class VII or better (claims made and modified occurrence policies are not acceptable).

4.16.5 COMMENCEMENT OF WORK. CONTRACTOR shall not commence work under this Agreement until all certificates and endorsements have been received and approved by the CITY. All insurance required by this Agreement shall contain a Statement of Obligation on the part of the carrier to notify the CITY of any material change, cancellation, or termination at least thirty (30) days in advance. Contractor shall also provide a waiver of subrogation for each policy.

4.16.6 INSURANCE AMOUNTS. CONTRACTOR and all subcontractors shall maintain the following insurance in the amount and type for the duration of this Agreement:

- (a) Commercial general liability in an amount not less than \$3,000,000 per occurrence, and not excluding XCU; **(claims made and modified occurrence policies are not**

acceptable); Insurance companies must be acceptable to CITY and have an AM Best's Guide Rating of A-, Class VII or better, as approved by the CITY.

- (b) Automobile liability in an amount not less than \$1,000,000 combined single limit; **(claims made and modified occurrence policies are not acceptable)**; Insurance companies must be acceptable to CITY and have an AM Best's Guide Rating of A-, Class VII or better, as approved by the CITY.
- (c) Excess liability, follows form coverage, shall be provided for any underlying policy that does not meet the insurance requirements set forth herein.**(claims made and modified occurrence policies are not acceptable)** Insurance companies must be acceptable to CITY and have a Best's Guide Rating of A-Class VII or better, as approved by the CITY.

An Additional Insured Endorsement, **ongoing and products-completed operations**, for the policy under section 4.16.6 (a) shall designate CITY, its officers, officials, employees, agents, and volunteers for this contract and all public agencies from whom permits will be obtained and their directors, officers, agents, and employees, as determined by the CITY, as additional insureds for liability arising out of work or operations performed by or on behalf of the CONTRACTOR. CONTRACTOR shall provide to CITY proof of insurance and endorsement forms that conform to city's requirements, as approved by the CITY.

An Additional Insured Endorsement for the policy under section 4.16.6 (b) shall designate CITY, its officers, officials, employees, agents, and volunteers for this contract and all public agencies from whom permits will be obtained and their directors, officers, agents, and employees, as determined by the CITY, as additional insureds for automobiles owned, leased, hired, or borrowed by the CONTRACTOR. CONTRACTOR shall provide to CITY proof of insurance and endorsement forms that conform to CITY's requirements, as approved by the CITY.

In the event any of CONTRACTOR'S underlying policies do not meet policy limits within the insurance requirements, CONTRACTOR shall provide coverage under the excess liability policy in 4.16.6 (c). Policy must be a follows form excess/umbrella policy. CONTRACTOR shall provide the schedule of underlying policies for an excess liability policy, state that the excess policy follows form on the insurance certificate, and provide an additional insured endorsement for the excess liability policy designating CITY, its officers, officials, employees, agents, and volunteers for this contract and all public agencies from whom permits will be obtained and their directors, officers, agents, and employees, as determined by the CITY, as additional insureds.

For any claims related to this Agreement, CONTRACTOR's insurance coverage shall be primary insurance as respects CITY, its officers, officials, employees, agents, and volunteers for this contract and all public agencies from whom permits will be obtained and their directors, officers, agents, and employees. Any insurance or self-insurance maintained by the CITY, its officers, officials, employees, agents, or volunteers, for this contract and all public agencies from whom permits will be obtained and their directors, officers, agents, and employees, as determined by the CITY shall be excess of the CONTRACTOR's insurance and shall not contribute with it.

If CONTRACTOR maintains higher insurance limits than the minimums shown above, CONTRACTOR shall provide coverage for the higher insurance limits otherwise maintained by the CONTRACTOR.

4.17 Risk and Indemnification. All work covered by this Contract done at the site of the Project or in preparing or delivering materials to the site shall be at the risk of CONTRACTOR alone. CONTRACTOR agrees to save, indemnify and keep CITY, its Officers, Agents, Employees, Engineers, and Consultants for this Contract, and all public agencies from whom permits will be obtained and their directors, Officers, Agents and Employees harmless against any and all liability, claims, judgments, costs and demands, including demands arising from injuries or death of persons (CONTRACTOR'S employees included) and damage to property, arising directly or indirectly out of the obligations herein undertaken or out of the operations conducted by CONTRACTOR, save and except claims or litigation arising through the *active negligence* or sole willful misconduct of CITY and will make good to reimburse CITY for any expenditures, including reasonable attorneys' fees CITY may incur by reason of such matters, and if requested by CITY, will defend any such suits at the sole cost and expense of CONTRACTOR.

4.18 Termination.

4.18.1 This Contract may be terminated in whole or in part in writing by the CITY for its convenience, provided that the CONTRACTOR is given (1) not less than ten (10) calendar days written notice (delivered by certified mail, return receipt requested) of intent to terminate, and (2) an opportunity for consultation with the terminating party prior to termination. Termination of contract shall conform to Section 8-1.11 of the State of California, Department of Transportation Standard Specifications.

4.18.2 If termination for default or convenience is effected by the CITY, an equitable adjustment in the price provided for in this Contract shall be made, but (1) no amount shall be allowed for anticipated profit on unperformed services or other work, and (2) any payment due to the CONTRACTOR at the time of termination may be adjusted to cover any additional costs to the CITY because of the CONTRACTOR'S default. The equitable adjustment for any termination shall provide for payment to the

CONTRACTOR for services rendered and expenses incurred in accordance with section 8-1.11 of the State of California, Department of Transportation Standard Specifications.

4.18.3 Upon receipt of a termination action under paragraph (4.18.1) or (4.18.2) above, the CONTRACTOR shall (1) promptly discontinue all affected work (unless the notice directs otherwise), and (2) deliver or otherwise make available to the CITY all data, drawings, specifications, reports, estimates, summaries and such other information and materials as may have been accumulated by the CONTRACTOR in performing this Contract whether completed or in process.

4.18.4 Upon termination under paragraphs (4.18.1) and (4.18.2) above, the CITY may take over the work and may award another party an agreement to complete the work under this Contract.

4.19 Warranty. The CONTRACTOR agrees to perform all work under this Contract in accordance with the CITY'S designs, drawings and specifications.

The CONTRACTOR guarantees for a period of one (1) year from the date of the notice of completion of the work that the completed work is free from all defects due to faulty materials, equipment or workmanship and that he shall promptly make whatever adjustments or corrections which may be necessary to cure any defects, including repairs or any damage to other parts of the system resulting from such defects. The CITY shall promptly give notice to the CONTRACTOR of observed defects. In the event that the CONTRACTOR fails to make adjustments, repairs, corrections or other work made necessary by such defects, the CITY may do so and charge the CONTRACTOR the cost incurred. The performance bond shall remain in full force and effect through the guarantee period.

The CONTRACTOR'S obligations under this clause are in addition to the CONTRACTOR'S other express or implied assurances provided under this Contract and in no way diminish any other rights that the CITY may have against the CONTRACTOR for faulty materials, equipment or work.

4.20 Attorneys' Fees. If any action at law or in equity is necessary to enforce or interpret the terms of this Contract, *each party shall be responsible for their own attorneys' fees, costs and necessary expenses.* If any action is brought against the CONTRACTOR or any subcontractor to enforce a Stop Notice or Notice to Withhold, which named the CITY as a party to said action, the CITY shall be entitled to all attorneys' fees, costs and necessary disbursements arising out of the defense or such action by the CITY. The CITY shall be entitled to deduct its costs for any Stop Notice filed, whether court action is involved or not.

4.21 Notices. Any notice required or permitted under this Contract may be given by ordinary mail at the address set forth below. Any party whose address changes shall notify the other party in writing.

To CITY: City of Garden Grove
 City Attorney
 11222 Acacia Parkway
 Garden Grove, California 92840

To CONTRACTOR: CT&T Concrete Paving, Inc.
 Attention: Jose Carvajal, President
 324 S. Diamond Bar Blvd, PMB 275
 Diamond Bar, CA 91765

\\ \\ \\

(Agreement Signature Block on Next Page)

IN WITNESS THEREOF, these parties have executed this Project Agreement on the day and year shown below.

Date: _____

"CITY"
CITY OF GARDEN GROVE

By: _____
City Manager

ATTEST:

City Clerk

Date: _____

"CONTRACTOR"
CT&T Concrete Paving, Inc.

Contractor's State Lic. No. _____

Expiration Date: _____

By: _____

Title: _____

Date: _____

Tax ID No. _____

DIR Registration No. _____

If CONTRACTOR is a corporation, a Corporate Resolution and/or Corporate Seal is required. If a partnership, Statement of Partnership must be submitted to the CITY.

APPROVED AS TO FORM:

Garden Grove City Attorney

ATTACHMENT "A"

SPECIFICATIONS FOR IFB NO. S-1281

**Furnish All Labor, Material and Equipment for On-Call
Concrete Construction at Various Locations for the City of
Garden Grove per City Standards and Specifications.**

ATTACHMENT "A"
IFB S-1281
SPECIFICATIONS FOR:

**Furnish All Labor, Material and Equipment for On-Call Concrete
Construction at Various Locations for the City of Garden Grove per City
Standards and Specifications**

I. GENERAL INFORMATION

A. The City of Garden Grove Public Works Department is backlogged with maintenance repairs to sidewalks, curbs, gutters, cross gutters, wheel chair ramps, and driveway approaches in various locations throughout the City. This project is to combine work of CITY crews, which includes saw-cutting, removal of damaged concrete, root pruning to a depth of six (6) inches below existing concrete, root removal to a depth of six (6) inches below existing concrete, backfill, lawn replacement, sprinkler repair, and asphalt street repair adjacent to gutters with the work of the contractor who will provide forming, pouring, and finishing of concrete. In some instances, at the City's discretion, the contractor will be required to perform all of the aforementioned operations and that will be performed under "OPTION B."

B. The term of this agreement shall be in effect from May 24, 2021 to May 23, 2022, with an option authorizing the City Manager or Designee to continue said agreement on a year-to-year basis to a maximum of four (4) additional years. In order to exercise this option, the CITY shall provide CONTRACTOR thirty (30) days' notice prior to May 23, 2022 and May 23 of each subsequent year (if applicable), of its desire to extend the agreement. CONTRACTOR agrees to provide the services described in attached bid sheet for said additional period, should the CITY give the required notice.

At the request of the CONTRACTOR, the CITY may adjust all item prices by the amount in the increase or decrease during the previous twelve (12) months in the Los Angeles, Anaheim, and Riverside All Urban Consumers Index. To determine the percent increase or decrease, the term "previous twelve months" shall mean the twelve-month period ending March 31 of that year, or if not available, the prior month.

C. For program flexibility and effectiveness, the City is seeking two responses for this project. Under Option A, the City will perform all traffic control, root pruning to a depth of 12 inches and root removal as necessary, concrete and/or asphalt removal, hauling and disposal, grading, barricading of area, repair of damaged sprinklers and/or water lines, backfilling and finish grading, and asphalt repairs. The contractor will perform all forming, placing, finishing, stripping and removal of forms, and clean-up of all CONTRACTOR operations. Under Option B, the successful

CONTRACTOR will do ALL necessary operations. The City will not be involved in any actual work.

- D. CITY shall have the right to terminate this Agreement without cause, by giving not less than thirty (30) days written notice of termination.
- E. The work consists of furnishing all labor, materials, equipment and services as may be necessary to complete the proposed replacement of sidewalks, curbs, gutters, cross gutters, driveway approaches and wheel chair ramps at locations to be designated.

The CONTRACTOR shall be informed by the Public Works Director or Designee of the areas where the work is to be performed.

The CITY reserves the option to begin and complete the following portions of the project, or at times direct that they be performed by the CONTRACTOR.

1. Traffic control associated with all contractual work operations.
2. Removal of existing concrete and pavement.
3. Root pruning and/or removal to a depth of six (6) inches below existing concrete.
4. Installation of the new asphalt patch against the newly poured concrete gutter and/or cross gutter and/or wheel chair ramp.
5. Placement of backfill material.
6. Repair of sprinkler systems.
7. Adjust utility covers to grade.

The CONTRACTOR will be responsible for forming, compacting and pouring of the curb, gutter, cross gutters, driveway approaches, sidewalk, and wheel chair ramps and if requested, any or all of the aforementioned.

- F. Unless superseded by written specifications within this document, the CONTRACTOR shall perform all work and use methods in accordance with the applicable sections of the Standard Specifications for Public Works Construction, **latest edition which can be found in Appendix A** of this bid document. (Subsequently referred to as "The Green Book") and the City of Garden Grove Public Works Department Standard Plans, latest edition.

II. PROTECTION OF PERSONS AND PROPERTY

The CONTRACTOR shall:

- A. Initiate, maintain, and supervise all safety precautions and programs in connection with the work.
- B. Take all reasonable precautions for the safety of, and provide all reasonable protection, prevent damage, injury or loss to:
 - 1. All employees on the work and other persons who may be affected thereby;
 - 2. All the work and all materials and equipment to be incorporated therein; and
 - 3. Other property at the site and adjacent thereto.
- C. Give all notices and comply with all applicable laws, ordinances, rules, regulations and orders of any public authority bearing on the safety of persons and property, and their protection from damage, injury or loss.
- D. Promptly remedy all damage or loss to any property caused in whole or in part by the CONTRACTOR, any subcontractor, or any that may be liable, except damage or loss attributable to the acts or omissions of the owner or his/her representative or anyone directly or indirectly employed by either of them, or be anyone for whose acts either of them may be liable and not attributable to the fault or negligence of the CONTRACTOR.
- E. Provide protection so as to minimize interference with an interruption to the adjacent property owner/tenant's employees and production process.
- F. Advise the property owner/tenant whenever work is expected to be hazardous to the property owner's employees and production process.

III. INSPECTION OF WORK BY CITY

- A. All work performed and all materials furnished shall be subject to the inspection and approval of the Director of Public Works or his/her authorized representative, and the CONTRACTOR shall prosecute work only with said inspection and approval.
- B. Any work done without proper inspection will be subject to rejection. The Director of Public Works or his/her authorized representative shall at all times have access to work during its preparation and construction, and the CONTRACTOR shall furnish every reasonable facility for ascertaining that the materials used, methods employed, and the workmanship are in accordance with these specifications.

- C. The inspection of the work shall not relieve the CONTRACTOR of any obligation to fulfill all conditions of the contract.
- D. If any work should be covered up without approval or consent of the Director of Public Works, it shall be uncovered for examination and properly restored at the CONTRACTOR's expense.

IV. WORK INCLUDED

- A. Provide all materials, labor, and equipment to complete the specified replacement of sidewalks, curbs, gutters, cross gutters, driveway approaches, wheel chair ramps, including any applicable asphalt repairs and/or patching. Each project will consist of a minimum of 2,400 square feet of concrete or 200 lineal foot of curb. The aforementioned quantities may not be continual sections, but small sections and at times on various streets (**sporadic**).
- B. Install new sidewalks, curbs and gutter, cross gutters, driveway approaches, and wheel chair ramps at each site.
- C. Clean and remove any debris caused by CONTRACTOR'S construction activity.

V. GENERAL

- A. Under Option (A), the CITY shall properly barricade and delineate all areas from the time work begins until the work is complete and the area is opened for use. The CONTRACTOR will be responsible for furnishing traffic control in accordance with the provisions of the latest edition of the Work Area Traffic Control Handbook ("WATCH") during the performance of and up to and including the acceptance by the CITY of all CONTRACTOR completed operations.

Traffic Control: Pedestrian and vehicular traffic shall be allowed to pass through the work area, whenever possible to do so, safely and with as little inconvenience and delay as possible. The CONTRACTOR shall provide adequate flag persons as reasonably necessary for the safety of persons and vehicles. Under Option (B), the CONTRACTOR will do all of the above.

- B. The CONTRACTOR shall promptly clean up the construction area, remove debris, and hand sweep at all locations at the end of each day. If CONTRACT personnel do not begin cleanup prior to 8 a.m. of the day following completion, CITY will arrange to provide cleanup and charge expenses to the CONTRACTOR.
- C. The CONTRACTOR shall have three (3) working days to complete all sidewalk or curb and gutter or driveway approaches or wheelchair ramps

or bus pads and cleanup per project. The CONTRACTOR will be notified a minimum of 5 days before initiation of a project by the Public Works Director or designee.

- D. No work will be allowed outside regular working hours without the express permission of the Public Works Director or authorized representative, except work items relating to maintenance and cleanup of the work area for the purpose of public safety and convenience. In the event work outside regular hours is allowed, any extra expense incurred by the CONTRACTOR shall be considered as being included in his/her bid prices and no extra compensation will be due for such work; and CONTRACTOR is responsible for crediting CITY for inspector's salary, including overtime. Regular working hours will be 7 a.m. to 3 p.m., Monday through Thursdays and every other Friday as designated by the Director of Public Works.

Non-Working Days: Holidays, every other Friday and the days between Christmas Day and New Year's Day are non-working days for the CITY. CONTRACTOR shall make requests for time extensions to work on these days seven calendar days in advance and shall reimburse CITY for the actual cost of overtime inspection.

- E. The CONTRACTOR shall be responsible for protecting existing utilities and maintaining location of an access to all gate valves during construction. CONTRACTOR shall confer with the CITY inspector to provide an acceptable method for the prevention of utility cover embedment in or bonding to the concrete. In addition to Sections 5 and 306 of the Standard Specification, the CONTRACTOR shall also adhere to standards of each related utility.

Where damage is caused by the CONTRACTOR's operations, the CONTRACTOR shall, at his/her expense, repair or replace damaged facilities promptly, in accordance with appropriate standards. Should the CONTRACTOR fail to perform the required repairs or replacements, the cost of performing such repairs or replacements will be deducted from any monies due or to become due to the CONTRACTOR.

- F. Special attention is directed to possible flood hazards and/or nuisance water, such as irrigation and other runoff. The CONTRACTOR may be responsible for all injuries or damages to any portion of the work occasioned by the above causes and shall make good such injuries or damages at no cost to the CITY prior to the completion and acceptance of the work. **Best management practices** in accordance with the City's Local Implementation Plan shall be employed at all times.

- G. If rain is encountered during construction, the CONTRACTOR may bear all cost for the materials (including AC, AB, and over-excavation) which might be damaged by water, and shall take all necessary steps to protect the work site (including using sandbags to protect work site, pump to keep raining and nuisance water away from the open excavated area, and other necessary protecting methods. **Best management practices** in

accordance with the City's Local Implementation Plan shall be employed at all times.

Payment for the preceding shall be included in the various bid items of work, and no additional compensation will be allowed.

- H. The CONTRACTOR shall guarantee for a period of one year, after acceptance of the work by the CITY, all materials and workmanship against any defects whatsoever. CONTRACTOR shall be notified of any defects which CONTRACTOR shall promptly repair at the CONTRACTOR's expense. The CONTRACTOR will be charged for all costs incurred by the CITY if, during the guarantee period, the CITY determines any CONTRACTOR failure is an emergency. Permanent repair shall be done by CONTRACTOR thereafter at the CONTRACTOR's expense.
- I. Cooperation with Others: The CONTRACTOR shall endeavor to maintain good public relations at all times. The work shall be conducted in a manner which will cause the least possible interference without annoyance to the public.
- J. Supervision: The CONTRACTOR will assure that a qualified English speaking supervisor is present at all times when work is being performed. If a citizen has a complaint or concern about work being performed, the CONTRACTOR's supervisor shall make initial contact with the citizen and endeavor to resolve the problem. The supervisor shall report each daily work schedule to the Public Works Supervisor or duly appointed representative prior to 2:30 p.m., on the preceding afternoon.

VI. COMPACTION

- A. A relative compaction of 90 percent is required on subgrade material.
- B. Subgrade at each location shall be inspected prior to replacement of the concrete sidewalk.

VII. Any compaction tests will be made by the CITY at no additional expense to CONTRACTOR.

CONCRETE WORK

- A. Concrete work shall be per Standard Plans and Details, City of Garden Grove (see attached).
- B. Concrete shall be Class 520-C-2500 with a maximum slump of four (4) inches, except where noted on Standard Plans.
- C. Sidewalk surface shall have a light broom finish to match existing sidewalk and/or curb and gutter.

- D. If both ends of new construction abut existing sidewalk, the new construction shall be scored to match existing.
- E. Sidewalks longer than 30 feet in length shall have weakened plain joints per City Standard Plans.
- F. All excess concrete shall be removed from the work area.
- G. Strip and remove excess concrete debris and clean all edges of newly poured concrete.
- H. All work shall be stamped with a stamp approved by CITY with name of CONTRACTOR and year.
- I. Install weakened plain joints per City Standard Plans around tree wells as designated by the Engineer.
- J. 4" Colored P.C.C. Work shall consist of constructing 4" colored concrete as designated by the Engineer. Concrete shall be a 6-1/2 sack of cement per cubic yard of concrete with a compressive strength of 3,000 lbs. psi at 28 days. The coarse aggregate shall be 3/8" maximum and shall not be more than 30% by volume per cubic yard. The color shall be approved by the Engineer prior to application in field and shall be achieved by application of a Schofield Lithochrome color hardener or approved equal. Color shall be applied evenly with an approved shaker at the rate of 60 pounds per 100 square feet.

Colored P.C.C. shall be sprayed with a lithochrome (or approved equal) color wax matching the color of the concrete. It shall be applied to the finished surface at a minimum rate of 600 square feet per gallon of unthinned color wax, in accordance with the manufacturer's recommendations. Color hardeners and color wax shall be approved by the Engineer prior to construction. The CONTRACTOR shall submit as examples of accomplished work a minimum of five (5) locations at which he/she has done a similar type of construction. No construction of concrete shall commence prior to approval from the Engineer.

VIII. BILLING AND PAYMENT

- A. The CITY shall issue written notice of work to the CONTRACTOR with a list of the type of work required, showing location and quantity. The CONTRACTOR shall complete the requested work within the time period designated by the CITY and submit written billing within thirty (30) days of completion. The written billing shall show: Work issuance completion and invoice dates, plus an itemized list of the completed work showing location and quantity corresponding to that same item on the work order.

ATTACHMENT "B" (BID PROPOSAL) PAGE 1 OF 4

SECTION 2 - PROPOSAL

THE HONORABLE MAYOR AND CITY COUNCIL
CITY OF GARDEN GROVE
11222 ACACIA PARKWAY
GARDEN GROVE, CALIFORNIA 92840

To: THE HONORABLE MAYOR AND CITY COUNCIL

The undersigned having carefully examined the Plans and Specifications for: Furnish All Labor, Material and Equipment for On-Call Concrete Construction at Various Locations for the City of Garden Grove per City standards and specifications, HEREBY PROPOSE to finish all labor, materials, equipment and transportation, and do all the work required to complete work in accordance with the Plans and Specifications for the sum price of:

Option A. (Contractor to perform all required work to City Standards except, City crews will complete all saw-cutting, removal of concrete and/or asphalt, root pruning, root removal, backfill, lawn replacement, sprinkler repair, and asphalt street repair adjacent to gutters.)

<u>Items</u>	<u>Approximate Quantities Per Project</u>	<u>Description</u>	<u>Unit Price</u>	<u>Anticipated Quantity</u>
A.	2,400 Sq ft.	Replace sidewalk	<u>\$.99</u> /Sq ft	25,000 Sq ft <u>\$ 224,750</u>
B.	200 Lin. ft.	Replace curb & gutter		Up to: 8000 Ln.ft.
		in place (18" wide gutter)	<u>45</u> /Ln ft	<u>\$ 360,000</u>
C.	100 Lin ft.	Replace curb & gutter		Up to: 8000 Ln. ft.
		in place (24" wide gutter)	<u>48</u> /Ln ft	<u>\$ 384,000</u>
D.	As required.	Replace standard cross		Up to: 8000 Sq. ft.
		Gutter	<u>17</u> /Sq ft	<u>\$ 136,000</u>

ATTACHMENT "B" (BID PROPOSAL) PAGE 2 OF 4

E.	200 Sq. ft.	Replace driveway approach, excluding curb & gutter	<u>13.95</u> /Sq ft	Up to: 8000 Sq. ft. \$ <u>111,600</u>
F.	180 Sq. ft.	Replace wheelchair ramp excluding curb and gutter (6" thick)	<u>29</u> /Sq ft	Up to: 10,000 Sq. ft. \$ <u>290,000</u>

GRAND TOTAL (OPTION A.) \$ 1,506,350.⁰⁰

OPTION B. (Contractor to perform all required work to City Standards, no exceptions)

Items	Approximate Quantities Per Project	Description	Unit Price	Anticipated Quantity
A.	2,400 Sq. ft.	Replace sidewalk in place	<u>9.90</u> /Sqft	25,000 Sq. ft. \$ <u>247,500</u>
B.	200 Lin. ft.	Replace curb & gutter in place (18" wide gutter)	<u>45</u> /Lnft	Up to: 8,000 Ln. ft. \$ <u>360,000</u>
C.	100 Lin. ft	Replace curb & gutter in place (24" wide gutter).	<u>48</u> /Lnft	Up to: 8,000 Ln. ft. \$ <u>384,000</u>
D.	As required	Replace standard cross Gutter	<u>17</u> /Sqft	Up to: 8,000 Sq. ft. \$ <u>136,000</u>
E.	200 Sq. ft.	Replace driveway approach excluding curb & gutter	<u>14.50</u> /Sqft	Up to: 8,000 Sq. ft. \$ <u>116,000</u>

ATTACHMENT "B" (BID PROPOSAL) PAGE 3 OF 4

F.	180 Sq. ft.	Replace wheelchair ramp, excluding curb & gutter. (6" thick)	Up to: 10,000 Sq.ft.
		<u>29</u> /Sqft.	\$ <u>290,000</u>
G.	100 Lin. Ft.	Replace "A" Curb	Up to 4000 Ln. Ft.
		<u>45</u> /Lnft.	\$ <u>180,000</u>
H.	As Necessary	Over-excavate, remove and replace existing asphalt per specs	
		<u>25</u> Sq.ft.	\$ <u>25</u>
I.	As Necessary	Place, grade and compact Crushed aggregate base (CAB) At over-excavated asphalt areas	
		<u>230</u> Per Ton	\$ <u>230</u>
J.	As Necessary	Catch Basin-Small Up to 8 feet.	
		<u>678</u> /Sq Ft.	\$ <u>678</u>
K.	As Necessary	Catch Basin-Large Over 8 feet	
		<u>678</u> /Sq Ft.	\$ <u>678</u>
L.	As Necessary	Parkway Culvert	
		<u>203</u> /Sq Ft.	\$ <u>203</u>

GRAND TOTAL (OPTION B.)

\$ 1,715,314.00

TOTAL BID AMOUNT

OPTION A-\$ 1,506,350.00

OPTION B-\$ 1,715,314.00

TOTAL BID AMOUNT (PARTS A AND B COMBINED)-\$ 3,221,664.00

Total Bid Amount in Written Words:

Three Million, Two Hundred Twenty-One Thousand,
Six Hundred Sixty-Four Dollars and zero Cents

(In the event of an error, the written words will prevail.)

ATTACHMENT "B" (BID PROPOSAL) PAGE 4 OF 4

It is understood and agreed that:

(a) No verbal agreement or conversation with any officer, agent, or employee of CITY, either before or after the execution of the Agreement, shall affect or modify any of the terms or obligations of this Proposal.

(b) CITY will not be responsible for any errors or omissions on the part of the undersigned in making up his bid, nor will bidders be released on account of errors.

(c) The undersigned hereby certifies that this Proposal is genuine and is not sham or collusive, or made in the interest or in behalf of any person not herein named, and that the undersigned has not directly or indirectly induced or solicited any other bidder to put in a sham bid, or any other person, firm, or corporation to refrain from bidding, and that the undersigned has not in any manner sought, by collusion, to secure for himself an advantage over any other bidder.

(d) The undersigned is licensed in accordance with the laws of the State of California.

Check below where appropriate:

☐ Partnership: That _____ are partners, doing business under the firm name of _____, and that the co-partnership makes the accompanying proposal.

☒ Corporation: That Jose Carvajal of CT&T Concrete Paving Inc. make the accompanying proposal.

☐ Individual: That _____ is the bidder and makes the accompanying proposal.

CT&T Concrete Paving Inc.

Company Name

324 S. Diamond Bar Blvd PMB #275

Address

Diamond Bar, CA 91765

City - State - Zip Code

(909)629-8000

Telephone

875627

California Contractors License Number

Jose Carvajal

Bidder's Name (Please Print)

04/09/21

Date


Authorized Signature

Line Items

Discount Terms No Discount

Item #	Item Code	Type	Item Description	UOM	QTY	Unit Price	Line Total	Response	Comment
OPTION A							\$1,508,350.00		
1			Replace Sidewalk	SQ FT	25000	\$8.99	\$224,750.00	Yes	
2			Replace Curb and Gutter in place (18" wide gutter)	LN FT	8000	\$45.00	\$360,000.00	Yes	
3			Replace Curb and Gutter in place (24" wide gutter)	LN FT	8000	\$48.00	\$384,000.00	Yes	
4			Replace Standard Cross-Gutter as required	SQ FT	8000	\$17.00	\$136,000.00	Yes	
5			Replace Driveway Approach excluding curb & gutter	SQ FT	8000	\$13.95	\$111,600.00	Yes	
6			Replace Wheelchair Ramp excluding curb & gutter (6" thick)	SQ FT	10000	\$29.00	\$290,000.00	Yes	
OPTION B							\$1,715,314.00		
7			Replace Sidewalk in Place	SQ FT	25000	\$9.90	\$247,500.00	Yes	
8			Replace Curb and Gutter in place (18" wide gutter)	LN FT	8000	\$45.00	\$360,000.00	Yes	
9			Replace Curb and Gutter in place (24" wide gutter)	LN FT	8000	\$48.00	\$384,000.00	Yes	
10			Replace Standard Cross-Gutter as required	SQ FT	8000	\$17.00	\$136,000.00	Yes	
11			Replace Driveway Approach excluding curb & gutter	SQ FT	8000	\$14.50	\$116,000.00	Yes	
12			Replace Wheelchair Ramp excluding curb & gutter (6" thick)	SQ FT	10000	\$29.00	\$290,000.00	Yes	
13			Replace "A" Curb	LN FT	4000	\$45.00	\$180,000.00	Yes	
14			Over-Excavate, Remove and Replace Existing Asphalt per Specs as necessary	SQ FT	1	\$25.00	\$25.00	Yes	
15			Place, Grade, and Compact Crushed Aggregate Base (CAB) at Over-Excavated Asphalt Areas as necessary	TON	1	\$230.00	\$230.00	Yes	
16			Catch Basin Small-up to 8 feet-as necessary	SQ FT	1	\$678.00	\$678.00	Yes	
17			Catch Basin Large-as necessary	SQ FT	1	\$678.00	\$678.00	Yes	
18			Parkway Culvert-as necessary	SQ FT	1	\$203.00	\$203.00	Yes	

Line Item Subtotals

Section Title	Line Total
OPTION A	\$1,506,350.00
OPTION B	\$1,715,314.00
Grand Total	\$3,221,664.00

City of Garden Grove

INTER-DEPARTMENT MEMORANDUM

To:	Scott C. Stiles	From:	Tom DaRe
Dept.:	City Manager	Dept.:	Police
Subject:	Approval of a purchase order with Lenco Industries, Inc. for one public safety response vehicle, and approval to appropriate funding. (Cost: \$285,188.18) (<i>Action Item</i>)		
	Date:	5/11/2021	

OBJECTIVE

To obtain City Council approval to issue a purchase order to Lenco Industries, Inc., in the amount of approximately \$285,188.18, for a public safety rescue response vehicle (BearCat).

BACKGROUND

Every year the Police Department responds to a large number of calls for service that have a high potential for violent confrontations involving firearms. Additionally, many of the investigations by police investigators result in the identification and location of offenders with a violent criminal history involving firearm violations, which requires investigators and officers to use extreme caution when taking these individuals into custody. Oftentimes the SWAT team is activated to ensure officers with the required tactical training and weapon systems are on scene to serve both search and arrest warrants and effect such arrests.

The SWAT team is also tasked with handling responses to barricaded armed suspects, hostage situations, and potential terrorist threats; all of which could include the threat of IEDs, large caliber weapons, or mass casualty incidents with an ongoing, active threat to human life. The City of Orange recently utilized their armored rescue vehicle during a mass shooting incident that occurred in their city last month.

DISCUSSION

Armored rescue vehicles (ARVs) provide law enforcement the protection required to respond to violent calls with the mobility to shield, aggress and breach. However, armored vehicles also provide a de-escalation factor. Tactical armored vehicles like

the Lenco BearCat have become a necessary tool for modern policing. Not only does an armored vehicle protect officers, it empowers them to be more precise with de-escalation techniques. The armored response vehicle would be utilized to rescue victims, mitigate injury to officers and rescue personnel, with both mobility and survivability.

Garden Grove SWAT personnel have spent hours training on rapid deployment from the Lenco BearCat currently being used by neighboring agencies. While a few outside agencies will allow our Department to use their armored response vehicles, it often takes time to obtain the necessary authorization which is not practical during a rapidly evolving critical incident.

The Lenco BearCat is the same brand of armored vehicle currently utilized by law enforcement agencies throughout the nation as well as surrounding municipalities and agencies. The standardization of this vehicle allows for additional units from the police department and other agencies to be on scene, as officers from the city and other agencies have the necessary knowledge of how to operate them. By purchasing the same brand of armored vehicle, this eliminates the need for additional training and the associated costs on a different type of vehicle.

The City may utilize the cooperative price list from the U.S. General Services Administration (GSA) for the purchase of the Lenco BearCat. GSA price list number GS-07F-169DA offers substantive cost savings across the board on this purchase. The U.S. General Services Administration under its GSA Multiple Award Schedules (MAS) Program, establishes the largest government-wide contracts which allow agencies to acquire products and services directly from suppliers.

Additionally, the Lenco BearCat is the only armored rescue vehicle with a 131-inch wheelbase. This allows the compact vehicle to have a tighter turning radius than larger options. The smaller turning radius allows the user to navigate through city streets and traffic with greater maneuverability. Lenco is currently the only manufacture, distributor, authorized dealer or supplier of the extremely light weight ballistic panels used in their armored response vehicles for civilian law enforcement.

The Police Department's Mine Resistant Armored Personnel carrier (MRAP) will either be returned to the Defense Logistics Agency (Department of Defense) or provided to another agency in need of such a specific resource.

FINANCIAL IMPACT

The Department proposes that the purchase of the Lenco BearCat be completed using a combination of existing Federal asset forfeiture funds and general fund revenue received from the seizure and disposition of illegal gambling monies. The total cost is \$285,188.18. This amount will cover the cost of \$262,242 to Lenco for the purchase of the BearCat and allow for \$22,946.18 to be applied to California sales tax (8.75%).

The Police Department does not request the rescue response vehicle be purchased from the fleet fund nor is it the request that the vehicle be added to the City's fleet.

The rescue response vehicle will be an "as used" vehicle and will not be part of the City's fleet. Maintenance and fuel costs are to be determined once the vehicle has been deployed and has been operational for one year after taking delivery. Lenco estimates the build to be completed approximately 11 months after the purchase order is issued.

RECOMMENDATION

It is recommended that the City Council:

- Approve the cooperative use of the GSA price list GS-07F-169DA for purchase of the Lenco BearCat;
- Approve dispensing with bidding for sole source purchase, cooperative purchase, and in the best interest of the City pursuant to Garden Grove Municipal Code 2.50.060(C), (E) and (G);
- Appropriate \$142,594.09 from the Federal Asset Forfeiture Fund (Fund 202) and \$142,594.09 from the General Fund (Fund 111) for a total of \$285,188.18 to the fiscal year 2020-21 budget for this purchase;
- Authorize the City Manager or his designee to execute the purchase order in the amount of \$285,188.18 and make any minor modifications as necessary thereto on behalf of the City.

ATTACHMENTS:

Description	Upload Date	Type	File Name
Lenco Quote 20254B_4-20-2021	4/21/2021	Backup Material	Lenco_Quote_20254B_4-20-2021.pdf
Lenco GSA Price List	4/21/2021	Backup Material	Lenco_GSA_Contract_exp_Aug_2021.pdf
Lenco Warranty	4/21/2021	Backup Material	Lenco_Warranty.pdf



Protecting Our Nation's Defenders™
10 Betnr Industrial Drive – Pittsfield, MA 01201
PH (413) 443-7359 – FAX (413) 445-7865

Quotation: 20254B

Customer Code: GGLCA
Quotation Date: 4/20/2021
Lenco Tax ID#: 04-2719777

Bill To

Garden Grove Police Department
11301 Acacia Pkwy
Garden Grove, CA 92840

Ship To

Garden Grove Police Department
11301 Acacia Pkwy
Garden Grove, CA 92840

Payment Terms	Shipping Terms	Ship Via
Net 30 Days	FOB: Destination	Common Carrier
Estimated Completion	Inhouse Contact	Inspection & Acceptance
11 Months ARO (Est.)	Jim Massery	At Lenco's Facility in Pittsfield, MA

Item:	Product #	Qty	Unit Price	Extension
Lenco BearCat	BC55003	1	\$ 200,704.00	\$ 200,704.00
Paint Color: Lusterless Black	18-342			
LED Lights: CA Mandated Solid Burn Red & Blue Front, Amber & Blue R				
<u>Options:</u>				
Diesel Engine, 6.7L Turbo	BCDLEN	1	\$ 8,859.00	\$ 8,859.00
22.5" Tire and Wheel Upgrade	BCTWU	1	\$ 8,800.00	\$ 8,800.00
Back up Camera System with Monitor	BCBU	1	\$ 2,297.00	\$ 2,297.00
Radio Prep Package, (1) Max (2)	BCINSRA	1	\$ 502.00	\$ 502.00
Rear A/C - Heating System: High Capacity	BCHAC	1	\$ 2,972.00	\$ 2,972.00
Roof Mounted Remote Control Spot Light - LED	BCSLLED	1	\$ 1,404.00	\$ 1,404.00
(1) 7" Vertical GunPort Upgrade	BCGP7	6	\$ 152.00	\$ 912.00
Hydraulic Front Mounted Receiver with Ram Post and Plate	BCHYDRAM	1	\$ 12,479.00	\$ 12,479.00
Intercom System; Inside to Outside	BCINT	1	\$ 2,871.00	\$ 2,871.00
Armored Oil Pan Guard	BCAOPG	1	\$ 1,936.00	\$ 1,936.00
Trauma Lighting (6) Overhead Dome White w/Hi/Low/Red	BCLTMED	1	\$ 2,498.00	\$ 2,498.00
Electric Power Mirrors	BCMIR	1	\$ 1,508.00	\$ 1,508.00
BearCat (Configuration Subtotal)		1	\$ 247,742.00	\$ 247,742.00

Notes:

Garden Grove tax (8.75%) of \$22,946.18 is not collected by Lenco.
Cooperative Purchasing available under Lenco's GSA Contract# GS-07F-169DA
(Schedule 84)

Subtotal	\$ 247,742.00
Shipping & Handling	\$ 14,500.00
Tax	\$ -
Total Order	\$ 262,242.00

WARNING: Information Subject to Export Control Laws

The written approval of the Directorate of US Defense Trade Controls and Lenco Industries, Inc. must be obtained before reselling, transferring, transshipping or disposing of a defense article to any end user, end use or destination other than as stated on this Lenco quote or the shipper's export declaration in cases where an exemption is claimed under this subchapter ITAR 123.9(A).

Acceptance of this quotation or entering into a purchase agreement with Lenco, the purchaser agrees to Lenco's full Terms and Conditions of Sale, available upon request. This quote will be valid for 90 days.

ACCEPTANCE OF PROPOSAL –

Authorized

Signature: _____

Please Sign and Return

Authorized

Signature: _____

Jim Massery

Jim Massery

Thank You

Page 348 of 355



Effective Date: February 10, 2021 (Contract Period: August 23, 2016 thru August 22, 2021)

BearCat GSA Price List w/ Option Prices

LENCO CONTRACT # GS-07F-169DA - Contract End Date August 22, 2021

Schedule Number 084 SIN #336992

PROPRIETARY

Qty/Vol Discount: .5% Discount Each Off Purchase of (5) (Off Base Model)

1% Discount Each Off Purchase of (10) (Off Base Model)

Item:	Product #	Commercial	GSA Net Price
Lenco BearCat	BC55003	\$ 211,267.37	\$ 200,704.00
Diesel Engine, 6.7L Turbo	BCDLEN	\$ 9,325.00	\$ 8,859.00
7.3 Ford Long Block Diesel Engine	BCDE7.3	\$ 10,481.05	\$ 9,957.00
6.0 Ford Long Block Diesel Engine	BCDE6.0	\$ 14,555.79	\$ 13,828.00
6.4 Ford Long Block Diesel Engine	BCDE6.4	\$ 15,771.58	\$ 14,983.00
6.7 Ford Long Block Diesel Engine	BCDE6.7	\$ 14,121.05	\$ 13,415.00
4-Channel DVR 160 GR	BC4CHDVR	\$ 1,842.11	\$ 1,750.00
17" Flat Panel LCD Monitor	BC17FPLCD	\$ 1,842.11	\$ 1,750.00
24-Volt Conversion System; 2-Cycle Batteries - CROWS	BC24VCSYS	\$ 13,157.89	\$ 12,500.00
AC-DC Power Inverter w/Auto Eject	BCINV2000	\$ 6,723.16	\$ 6,387.00
Back up Camera System with Monitor	BCBU	\$ 2,417.89	\$ 2,297.00
Electric Power Mirrors	BCMIR	\$ 1,587.37	\$ 1,508.00
Electric Power Winch; Modular w/Winch Basket	BCWNCH	\$ 6,534.00	\$ 6,207.00
Explosive Gas Detection Pkg	BCDRG	\$ 5,289.47	\$ 5,025.00
Heated Windshield Upgrade	BCHGW	\$ 2,266.32	\$ 2,153.00
High Intensity Driving Lights in Front Bumper	BCHIDL	\$ 1,410.53	\$ 1,340.00
Intercom System; Inside to Outside	BCINT	\$ 3,022.11	\$ 2,871.00
Integration of Cust Supplied Fiber Optic Spool/Ground Mt & Roof Lead	BCCUSFIBR	\$ 3,684.21	\$ 3,500.00
Light Bar Prep Package	BCILB	\$ 528.42	\$ 502.00
On Board SCBA System/Includes Bottled Air & Inside Attach Points	BCSBA	\$ 27,051.58	\$ 25,699.00
Mounting Plates for Customer Supplied Air Packs (3)	BCCUSTAIR	\$ 789.47	\$ 750.00
Color Camera w/Controller, Front and Rear Monitors	BCPANTILT	\$ 21,421.05	\$ 20,350.00
Radiation Detection Package	BCRAD	\$ 5,289.47	\$ 5,025.00
Radio Prep Package, (1) Max (2)	BCINSRA	\$ 528.42	\$ 502.00
Desert Climate Cooling Package	BCDCCP	\$ 1,894.74	\$ 1,800.00
Interior Crew Compartment Exhaust Fan	BCICEF	\$ 1,250.53	\$ 1,188.00
Rear A/C - Heating System: High Capacity	BCHAC	\$ 3,128.42	\$ 2,972.00
Rear A/C - Heating System: High Capacity Upgrade	BCHACUP	\$ 7,560.00	\$ 7,182.00
Rear A/C - Heating System: Engine Mounted	BCEMAC	\$ 11,052.63	\$ 10,500.00
Roof Mounted Remote Control Spot Light (1) - Max (4)	BCRCSL	\$ 1,056.84	\$ 1,004.00
Roof Mounted Remote Control Spot Light - LED	BCSLLED	\$ 1,477.89	\$ 1,404.00
Color & Thermal Camera w/Controller, Front and Rear Monitors	BCTI	\$ 33,247.79	\$ 31,585.00
Telescoping Mast System; 10' w/Compressor & Proximity Switch	BCTELMAS	\$ 21,211.58	\$ 20,151.00
VSP Style Low Profile & Scene Lighting Pkg	BCVSPL	\$ 4,282.11	\$ 4,068.00
Whelen Liberty LED Light Bar (Installed)	BCLED	\$ 3,385.68	\$ 3,216.00
Trauma Lighting (6) Overhead Dome White w/Hi/Low/Red	BCLTMED	\$ 2,629.47	\$ 2,498.00
Extreme White Rear Area Scene Lights	BCEWRASL	\$ 2,080.00	\$ 1,986.00
Protective Window Screens	BCPWS	\$ 7,244.21	\$ 6,882.00
Protective Window Screens - Automatic	BCPWSA	\$ 9,453.68	\$ 8,981.00
Take Down Light (Bumper Mounted)	BCTDL	\$ 1,950.53	\$ 1,853.00
LRAD Wiring Prep (for internal controls)	BCLWP	\$ 4,757.89	\$ 4,520.00
LRAD T-Lock Mount	BCLTM	\$ 1,713.68	\$ 1,628.00
LRAD Hatch Mount	BCMHH	\$ 1,435.79	\$ 1,364.00
LRAD Roof Rail Mount	BCLRRM	\$ 1,505.26	\$ 1,430.00
In-Line Diesel Fuel Heater	BCDFH	\$ 789.47	\$ 750.00
ECM Diagnostics System	BCEDS	\$ 315.79	\$ 300.00
Fire Suppression System (Crew Area Only)	BCFSSCA	\$ 19,894.74	\$ 18,900.00
5 Pack Mag Kit	BCMAGKIT	\$ 1,026.32	\$ 975.00
Armored Oil Pan Guard	BCAOPG	\$ 2,037.89	\$ 1,936.00
Fire Suppression: Engine; Manual Discharge	BCFSUPE	\$ 6,400.00	\$ 6,080.00
Fire Suppression: Tires: Left Side & Right Side; Manual Discharge	BCFSUPT	\$ 14,600.00	\$ 13,870.00
Front Area Barricade Plow with Hydraulic Lift	BCPLOW	\$ 14,200.00	\$ 13,490.00
Integrated LED Visor Lights (8): 4 Red / 4 Blue	BCIVL	\$ 2,141.05	\$ 2,034.00
Integrated Side Area Lights: (8): 2 Red / 2 Blue / 4 White	BCSAL	\$ 2,141.05	\$ 2,034.00
Gas Injector Storage Basket	BCGISB	\$ 1,363.16	\$ 1,295.00
2 Rear Area Electric Fans	BC2RELFAN	\$ 315.79	\$ 300.00
HRI Mineroller Vehicle Integration Kit w/ Export Crate	HRIMVIK-SOMFL	\$ 8,410.53	\$ 7,990.00
24V System (HRI Mineroller Hydraulic Steering upgrade) w/ Export Crate	24VHRI-SOMFL	\$ 13,578.95	\$ 12,900.00
Advanced BMI MRAP Gunner's Seat	BCBMIGS	\$ 1,562.11	\$ 1,484.00
Blast Seat (Each)	BCBSEATS	\$ 3,173.68	\$ 3,015.00
2-Mid Back Seats in Rear (Bench Seats Shortened)	BCMBS	\$ 1,662.11	\$ 1,579.00
Wall Mounted Flip Down Seat	BCFLIPSEAT	\$ 505.26	\$ 480.00
Ford F550 Service Manuals	BCFMNL	\$ 657.89	\$ 625.00
Seat Belts Rear Bench Seats	BCSBLT	\$ 1,309.47	\$ 1,244.00
Spec Rest Sniper System	BCSRESTSS	\$ 4,189.47	\$ 3,980.00
Work Counter/Control Station w/Swivel Seat/Lumbar Support	BCWKCT	\$ 5,263.16	\$ 5,000.00
Fold-Up Steel Work Table	BCFSWT	\$ 1,384.25	\$ 1,315.00
Run-Flat Tires: Set of (6)	BCRF6	\$ 6,347.37	\$ 6,030.00
19.5" Spare Tire with Run Flat	BCSTRF	\$ 2,429.47	\$ 2,308.00
Run-Flat Tires for 22.5" Tire and Wheel Upgrade	BCRF225	\$ 7,455.79	\$ 7,083.00

22.5" Spare Tire with Run Flat	BCSTRF2	\$ 3,045.26	\$ 2,893.00
22.5" Tire and Wheel Upgrade	BCTWU	\$ 9,263.16	\$ 8,800.00
G3/G4 Spare Tire with Run-Flat	BC40STRF	\$ 5,214.74	\$ 4,954.00
(1) 7" Vertical GunPort Upgrade	BCGP7	\$ 160.00	\$ 152.00
4-Door Configuration	BC4DR	\$ 8,271.58	\$ 7,858.00
Armored Engine Firewall	BCAEF	\$ 14,965.26	\$ 14,217.00
Ballistic Skip Round Shield	BCBSRS	\$ 2,037.89	\$ 1,936.00
BearCat EOD Pkg/Robot Deployment Door/Truck Extension/Raised Roof	BCEOD	\$ 29,473.68	\$ 28,000.00
Front Mtd Hydraulic Robot Lift/Delivery Platform/Winch	BCFMHYRO	\$ 7,894.74	\$ 7,500.00
BearCat G3 4-Wheel Off-Road Upgrade Pkg w/Run-Flats	BC3WOFFRD	\$ 36,797.89	\$ 34,958.00
BearCat G4 Off-Road Pkg w/RunFlats/4-Dr/Lg Tinted Windows/2-Rear Seats	BCG4	\$ 50,173.68	\$ 47,665.00
BearCat G5 4-Wheel Mine Resistant Package	BCG5	\$ 81,980.00	\$ 77,881.00
BearCat X2 Utility Package	BCX2	\$ 9,157.89	\$ 8,700.00
BearCat X3 Utility Package	BCX3	\$ 36,797.89	\$ 34,958.00
BearCat X-Series Fire Response Package	BCX3MON	\$ 98,842.11	\$ 93,900.00
BearCat MedEvac (4) Litter Pkg	BCMEDEVAC	\$ 20,870.53	\$ 19,827.00
BearCat MedEvac LASD TEMS Version	BCMEDLASD	\$ 27,186.32	\$ 25,827.00
BearCat Life-Cycle Maintenance Program	BCLCMP	\$ 146,895.79	\$ 139,551.00
Light Weight Assault Litter	BCLWAL	\$ 1,315.79	\$ 1,250.00
BearCat VIP, SUV Pkg	BCVIPSUV	\$ 46,289.47	\$ 43,975.00
BearCat Hi Rail System	BCHRS	\$ 44,129.47	\$ 41,923.00
BearCat Hi Rail System Accessory Kit	BCHRAK	\$ 7,004.21	\$ 6,654.00
Bedrock Paint	BCPJ	\$ 3,218.95	\$ 3,058.00
Emergency Escape Hatch	BCEEH	\$ 3,602.11	\$ 3,422.00
Extreme Heat Reducing Insulation & Sound Reduction Pkg	BCEXHT	\$ 3,204.21	\$ 3,044.00
Front Mounted Receiver with Ram Post and Plate	BCFRAM	\$ 4,735.79	\$ 4,499.00
Hydraulic Front Mounted Receiver with Ram Post and Plate	BCHYDRAM	\$ 13,135.79	\$ 12,479.00
Break and Rake	BCBAR	\$ 1,263.16	\$ 1,200.00
Ram Cam with Monitor	BCRC	\$ 25,187.37	\$ 23,928.00
Ram Cam Prep Pkg	BCRCP	\$ 2,291.58	\$ 2,177.00
RAM Cam Plug & Play Package	BCPPP	\$ 5,305.26	\$ 5,040.00
360 Camera System	BC360DEG	\$ 4,654.74	\$ 4,422.00
Gas Injector Unit	BCGIU	\$ 15,317.89	\$ 14,552.00
Gun Mount for 240 w/Pedestal/Gasket/Armor Shield	BCGMT240	\$ 8,412.63	\$ 7,992.00
High Gloss Exterior Paint (CARC is Standard)	BCHGP	\$ 9,157.89	\$ 8,700.00
Military Style Cupola and Mechanical Turret System	BCMTUR	\$ 19,646.32	\$ 18,664.00
Military Style Cupola w/Ballistic Windows & Mechanical Turret System	BCMCUPOLA	\$ 27,706.32	\$ 26,321.00
1-Plasma Rope	BCPLAS1	\$ 529.47	\$ 503.00
BearCat UV Ray Protective Cover	BCUVPC	\$ 2,555.79	\$ 2,428.00
BearCat Spare Parts Kit	BCG5SP	\$ 1,961.05	\$ 1,863.00
BearCat Export Conversion	BCEXCON	\$ 4,236.84	\$ 4,025.00
Rear Tow Hitch Receiver	BCRTOWR	\$ 1,057.89	\$ 1,005.00
Single Side Personnel Door w/Window/Gunport/Adj Ht Gunner Stand	BCSSPD	\$ 5,263.16	\$ 5,000.00
Supplemental Floor Armor/Blast Shield	BCSFA	\$ 5,541.05	\$ 5,264.00
Water Monitor (Integration) with Joy Stick Control	BCMON	\$ 41,034.74	\$ 38,983.00
Water Monitor (Integration) w/Joy Stick Control: Bumper Mounted Nozzle	BCMONBMN	\$ 29,578.95	\$ 28,100.00
Water Piercing Monitor	BCWPN	\$ 7,201.05	\$ 6,841.00
Semi-Automatic Tire Inflation System (STIS)	BCSTIS	\$ 9,052.63	\$ 8,600.00
Crows Integration w/24 Volt Conversion	BCCRWS	\$ 53,277.89	\$ 50,614.00
Vehicle Front Stabilization System	BCVFSS	\$ 17,137.89	\$ 16,281.00
Engineering Support Labor Rate (per hour)	BCELSR	\$ 273.68	\$ 260.00
Roadside Tire Tool Kit	BCRTK	\$ 902.11	\$ 857.00
Weapons Mount	BCWMT	\$ 210.53	\$ 200.00
Special Ops Package	BCSOP	\$ 13,177.89	\$ 12,519.00
Front Skid Pan	BCFSP	\$ 1,803.16	\$ 1,713.00
Certified Air Transportability Package	BCCATP	\$ 2,616.84	\$ 2,486.00
Large Capacity Fuel Cell	BC68GFT	\$ 4,854.74	\$ 4,612.00
Power Inverter - Export	BCPIEX	\$ 3,142.11	\$ 2,985.00
Extreme Use Off-Road Suspension Upgrade	BCORS	\$ 6,960.00	\$ 6,612.00
Roof Mounted Alley Lighting - (1) Max (4)	BCRMAL	\$ 2,329.47	\$ 2,213.00
Water Fording Upgrade	BCWUFU	\$ 21,044.21	\$ 19,992.00
Front Bumper Intersection Lights	BCBIL	\$ 1,894.74	\$ 1,800.00
Fender Intersection Lights	BCFIL	\$ 3,143.16	\$ 2,986.00
Color & Infrared Camera w/ Controller, Front and Rear Monitors	BCPANTILTIR	\$ 26,680.00	\$ 27,246.00
Advanced Rescue MedEvac Package	BCRMP	\$ 84,205.26	\$ 79,995.00
19.5 Spare Tire, No Run-Flat	BC195ST	\$ 1,561.50	\$ 1,483.00
22.5 Spare Tire, No Run-Flat	BC225ST	\$ 1,938.95	\$ 1,842.00
Protective Window Covers	BCWC	\$ 1,697.89	\$ 1,613.00
MedEvac Benches w/ stretcher restraints	BCMEDBENCH	\$ 3,435.79	\$ 3,264.00
Gooseneck Task Lights (4)	BCGTL	\$ 3,436.84	\$ 3,265.00
DS Medical Cabinet	BCMEDCABDS	\$ 11,721.05	\$ 11,135.00
PS Medical Cabinet	BCMEDCABPS	\$ 3,637.89	\$ 3,456.00
IV Hooks	BCIVHOOK	\$ 736.84	\$ 700.00
Stretcher Hook Prep	BCSHP	\$ 1,590.53	\$ 1,511.00
Electric Power Winch; Front Bumper Mounted	BCWNCHFRONT	\$ 5,517.89	\$ 5,242.00
Light Duty Electric Powered Winch; 10,000 lbs Capacity	BCWNCHSUVFRONT	\$ 5,518.95	\$ 5,243.00
Electric Power Winch / Synthetic Rope; Front Bumper Mounted	BCWNCHRMPPFRONT	\$ 6,396.84	\$ 6,077.00
Electric Power Winch / Synthetic Rope; Modular with Winch Basket	BCWNCHRMPP	\$ 6,415.79	\$ 6,095.00
Rear Tow Hitch Receiver w/ Winch Power	BCRTOWRWP	\$ 1,323.16	\$ 1,257.00
DEF Tank Guard; Diesel Engine Only	BCDEFG	\$ 985.26	\$ 936.00
Exterior Equipment Storage Compartment	BCSCOMP	\$ 3,178.95	\$ 3,020.00
Navy Specialized Cupola & Turret System	BCMTRNA006	\$19,646.32	\$ 18,664.00
Navy Gun Mount System	BCGMTNA006	\$9,303.16	\$ 8,838.00
Quick Collapsible Navy Gun Mount System	BCG3GMTNA006	\$25,894.74	\$ 24,600.00

Ammo Storage Rack	BCASR	\$2,431.58	\$ 2,310.00
Flip-up Running Board	BCFRB	\$4,109.47	\$ 3,904.00
Go Light Protective Cage	BCGLC	\$52.63	\$ 50.00
UN006 Special Configuration	UN006	\$16,786.32	\$ 15,947.00
IDGID Special Configuration	IDGID	\$24,867.37	\$ 23,624.00
LO001 Special Configuration	LO001	\$57,524.21	\$ 54,648.00
MI004 Special EOD Configuration	MI004	\$78,801.05	\$ 74,861.00
Integrated Decontamination System	BCADS	\$ 26,501.05	\$ 25,176.00
Draco Prep Package	BCDRACOPREP	\$ 1,995.79	\$ 1,896.00
Reverse Opening Hood	BCROH	\$ 4,315.79	\$ 4,100.00
Light Guard Package	BCLG	\$ 52.63	\$ 50.00
Front Mud Flaps	BCFMF	\$ 595.79	\$ 566.00
Advanced Rescue Front End	BCARFE	\$ 34,484.21	\$ 32,760.00
External Storage Cabinets Driver & Passenger Side	BCESC	\$ 4,931.58	\$ 4,685.00
X-Series Utility Bed Cabinet	BCXBEDCAB	\$ 5,917.89	\$ 5,622.00
Interior Rubber Mats (In Place of Carpets)	BCRMF	\$ 478.95	\$ 455.00
In-Skins	BCINSKINS	\$ 6,221.05	\$ 5,910.00
Large Escape Hatch w/ Ladder	BCEHWL	\$ 1,493.68	\$ 1,419.00
SCBA Flip up Seat	BCSCBAFSEAT	\$ 2,252.63	\$ 2,140.00
SCBA Seat w/ Base	BCSCBASEAT	\$ 1,951.58	\$ 1,854.00
Forward Facing Camera	BCFFC	\$ 2,417.89	\$ 2,297.00
Whole Vehicle Bedrock Paint	BCPJWV	\$ 6,437.89	\$ 6,116.00
Severe Duty Axle Upgrade	BCSDAU	\$ 30,526.32	\$ 29,000.00
INTRAXX System (gunport layout)	BCINTRAXX	\$ 1,326.32	\$ 1,260.00
Tire Shields (Qty 4)	BCTIRESHIELD	\$ 3,208.42	\$ 3,048.00
(2) Fin Grip Weapons Mount & Base	19-482	\$ 1,263.16	\$ 1,200.00
FOB: Origin (TBD) Prepaid and Added	Specifications Subject to Change.		

Sales and Product Inquiries:
Email: Sales@LencoArmor.com

General Information:
Lenco industries, Inc.
10 Betnr Industrial Drive
Pittsfield, MA 01201
Toll Free: (800) 444-5362
Tel: (413) 443-7359

GENERAL SERVICES ADMINISTRATION
Federal Supply Service
Authorized Federal Supply Schedule Price List
Federal Supply Schedule: 084
SIN: 336992
Law Enforcement & Security
FSC Class: 2355 / NAICS: 33699 Date
Revised: 03/03/2021

CONTRACTOR CATALOG
Terms & Conditions

I. LENCO Contact Information

Lenco Contract #: GS-07F-169DA
Contractor: LENCO INDUSTRIES, INC.
dba LENCO ARMORED VEHICLES
10 BETNR INDUSTRIAL DRIVE
PITTSFIELD, MA 01201
Web Address: <http://www.SWATtrucks.com>
E-Mail: Info@SWATtrucks.com
Effective Date: August 23, 2016 thru August 22, 2021
Contract Period: August 23, 2016 thru August 22, 2021
Order Status POC: Sales@SWATtrucks.com
DUNS: 051950293
Business Size: Small / Manufacturer
Contract Administration: Carrie Catan/Tel. 413-443-7359 Ex 103

For more information on ordering from Federal Supply Schedules, click on the FSS Schedules Button at <http://www.fss.gsa.gov>.

II. TERMS AND CONDITIONS LENCO INDUSTRIES, INC.

1a. **Awarded Special Item Numbers:** 426 5B – Armored Security Vehicles

1b. **Lowest Priced Model Number for each Awarded Special Item Number(s):**

SIN# 426 5B, Lenco B.E.A.R.® Base Price \$289,749.

SIN# 426 5B, Lenco BearCat® Base Price \$200,704.

SIN# 426 5B, Replacement Glass Price List 1c. **Does Not Apply.**

2. **Maximum Order Guideline:** \$850,000 per order
(Note: delivery order may be placed against the Schedule contract even though it exceeds the maximum order)
3. **Minimum Order:** \$100
4. **Geographic Coverage:** U.S. 50 States, Washington D.C., Puerto Rico, U.S. Territories; and CONUS or OCONUS.
5. **Points of Production:** Lenco Armored Vehicles
10 Betnr Industrial Drive
Pittsfield, MA 01201
Berkshire County
6. **Basic Discount:** Net GSA pricing as shown on the Lenco GSA Pricing Schedules found on GSA Advantage and on Lenco web sites for the Lenco BEAR and BearCat.
7. **Qty/Vol Discount:** .5% Discount Each Off Purchase of (5) (Base Model Armored Vehicles)
1% Discount Each Off Purchase of (10) (Base Model Armored Vehicles)
8. **Prompt Payment Terms:** 0%, Net 30 Days
- 9.. **Government Credit Card:** Accept Government Credit Cards –
Below and Above micro purchase threshold
10. **Foreign Items:** None
- 11a. **Time of Delivery:** 240 Days ARO
- 11b. **Expedited Delivery:** Contact Contractor
- 11c. **Overnight/2-Day Delivery:** Contact Contractor
- 11d. **Urgent Requirements:** Contact Contractor
12. **FOB Point:** Origin, Freight Prepaid & Added
13. **Ordering Address:** Lenco Industries, Inc.
10 Betnr Industrial Drive
Pittsfield, MA 01201
Telephone: 1-800-444-5362 or 413-443-7359
FAX: 413-445-7865
Email: sales@SWATtrucks.com
14. **Payment Address:** Lenco Industries, Inc.
10 Betnr Industrial Drive
Pittsfield MA 01201
15. **Warranty Provisions:** Standard Commercial Warranty

Page 2 of 3

III. TERMS AND CONDITIONS Lenco INDUSTRIES, INC.

16. **Export Packing Charges:** Export Packing Charges To Be Determined

17. **Terms and Conditions of Government Credit Card Acceptance:** Accepted all purchases up to a maximum of \$10,000.
18. **Terms and Conditions of any other service:** Not Applicable
19. **Terms and Conditions of Installation:** None
20. **Terms and Conditions of Repair Parts indicating Date of Parts Price Lists and any Discounts from List Prices:** None
21. **List of Service and Distribution Points:** N/A
22. **List of Participating Dealers:** None
23. **Preventative Maintenance:** None
24. **Environmental Attributes, E.G. Recycled Content, Energy Efficiency, and/or Reduced Pollutants:** Meets Federal Emission Standards.
25. **Data Universal Number System (DUNS) Number:** 051950293
26. **CCR Database:** Yes - Cage Code 1KA02
27. **Inspection & Acceptance:** At Lenco Factory, Pittsfield, MA Page 3 of 3



Protecting Our Nation's Defenders™

LENCO ARMORED VEHICLE LIMITED WARRANTY

As used in this Limited Warranty, "Vehicle" means any Lenco armored vehicle; "you" and "your" means the purchaser of a Vehicle from Lenco Industries, Inc. or an authorized Lenco distributor; and "we", "us" and "our" means Lenco Industries, Inc.

Lenco-Manufactured Components. We will pay for repair or replacement of Vehicle components manufactured by us which prove to be defective within Three Years after the original purchaser of the Vehicle received delivery of the Vehicle from us or an authorized Lenco distributor, except that we will not be responsible for (i) any damage to the Vehicle or any component of the Vehicle caused by negligence, misuse, alteration or accident or (ii) normal maintenance of the Vehicle or any component of the Vehicle. To be eligible for such warranty coverage, you must follow the Procedures for Submission of Warranty Claims and Authorization of Warranty Work set forth below.

Components Manufactured by Others. If any component of the Vehicle (i) was manufactured by any person or firm other than us and (ii) is the subject of a written warranty by such other manufacturer, we will assist you in submitting to the manufacturer of any such component claims that such component proved to be defective during the applicable warranty period specified in the manufacturer's written warranty. Copies of all written warranties given by the manufacturers of parts or components of the Vehicle manufactured by persons or firms other than us will either be furnished to you at the time of delivery of the Vehicle or are available upon written request to us at 10 Betnr Industrial Drive, Pittsfield, MA 01201 or by e-mail to our Warranty Administrator, Mr. Steve Mix; e-mail: Steve@lencoarmor.com

Procedures for Submission of Warranty Claims and Authorization of Warranty Work. Except as otherwise specified below, warranty repairs or replacements for our components may be made by either an authorized Lenco service center or any repair shop mutually acceptable to you and us; in either case, the service center or repair shop must (i) contact us before any repair or replacement is undertaken and (ii) receive our written approval of the repair or replacement and the service center's or repair shop's charges for such repair or replacement. Requests for our approval should be directed to Warranty Department, Lenco Industries, Inc., 10 Betnr Industrial Drive, Pittsfield, MA 01201, (Tel. (413) 443-7359; Fax (413) 445-7865 or e-mail: warranty@lencoarmor.com). We reserve the right in any particular instance to require that repair or replacement of our components be performed either at our factory in Pittsfield, Massachusetts or at an authorized Lenco service center. You are responsible for freight or other transportation costs to and from our factory, an authorized Lenco service center or a repair shop performing repairs or replacements under this warranty.

Exclusion of Other Warranties. This warranty is in lieu of all other warranties, express or implied, and, in particular, we make **NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

Limitation of Remedies and Damages. Our repair or replacement of our components and assistance with the submission of warranty claims to manufacturers of components not manufactured by us, all as specified above, is your exclusive remedy for any and all claims against us, whether based on warranty, contract, tort, negligence, or any other theory. We are not liable for any incidental or consequential damages resulting from any defect in the Vehicle (including, without limitation, personal injury, loss of revenue, loss of anticipated profit, or any other loss or damage).