



## AGENDA

Garden Grove City Council

Tuesday, January 24, 2017

6:30 PM

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

Steven R. Jones

Mayor

Phat Bui

Mayor Pro Tem - District 4

Kris Beard

Council Member - District 1

John R. O'Neill

Council Member - District 2

Thu-Ha Nguyen

Council Member - District 3

Stephanie Klopfenstein

Council Member - District 5

Kim B. Nguyen

Council Member - District 6

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**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:** Speakers must limit remarks for a total of (5) five minutes. 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

### Open Session

ROLL CALL: COUNCIL MEMBER BEARD, COUNCIL MEMBER O'NEILL, COUNCIL MEMBER T.NGUYEN, COUNCIL MEMBER KLOPFENSTEIN, COUNCIL MEMBER K.NGUYEN, MAYOR PRO TEM BUI, MAYOR JONES

### INVOCATION

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

#### 1. MUSICAL PERFORMANCE

#### 2. PRESENTATIONS

- 2.a. Community Spotlight: Recognition of Ric Lerma for receiving the prestigious title of Garden Grove Citizen of the Year from the Cypress College 2017 Americana Award.
- 2.b. Presentation provided by the Orange County Transportation Authority regarding the I-405 Improvement Project.

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

#### 4. WRITTEN COMMUNICATIONS

- 4.a. Approval of a written request to waive annual fees associated with the Garden Grove Farmers Market on Main Street. (*Action Item*)
- 4.b. Approval of a written request for a one-day use of the Willowick Golf Course for the annual GGCF Golf Classic. (*Action Item*)

### RECESS

### CONDUCT OTHER LEGISLATIVE BODIES' BUSINESS

### RECONVENE

#### 5. CONSENT ITEMS

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

- 5.a. Acceptance of Project No. 7279-Irrigation Installation on Magnolia Street as Complete. (*Action Item*)
- 5.b. Award of Contract to Abundant Water Wells for the destruction of

three (3) water wells at 11741 Gilbert Street, 13962 Yockey Street, and 10819 Westminster Avenue, Garden Grove. (Cost: \$89,385) *(Action Item)*

- 5.c. Authorize the issuance of a purchase order to Aardvark for Project 7 armor equipment for Fire and Police Departments. (Cost: \$92,301.30) *(Action Item)*
- 5.d. Approval of Amendment No. 1 to the agreement with Engineering Resources of Southern California, Inc., to provide on call civil engineering plan checking and construction inspection services. (Cost: \$100,000) *(Action Item)*
- 5.e. Approval of a new position classification for a Network Administrator. *(Action Item)*
- 5.f. Receive and file minutes from the meeting held on November 22, 2016. *(Action Item)*
- 5.g. Approval of Warrants. *(Action Item)*
- 5.h. Approval to waive full reading of Ordinances listed. *(Action Item)*

## 6. PUBLIC HEARINGS

*(Motion to approve will include adoption of each Resolution unless otherwise stated.)*

- 6.a. Adoption of a Resolution approving Site Plan No. SP-031-2016 for the development of a proposed ten-unit apartment complex at 9691 Bixby Avenue, Garden Grove, and to introduce for first reading an Ordinance adopting Development Agreement No. DA-004-2016

Entitled:

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF GARDEN GROVE ADOPTING DEVELOPMENT AGREEMENT NO. DA-004-2016 BETWEEN THE CITY OF GARDEN GROVE AND TONY LE AND DUNG NGUYEN. *(Action Item)*

## 7. COMMISSION/COMMITTEE MATTERS

## 8. ITEMS FOR CONSIDERATION

- 8.a. Approval of the 2017 Investment Policy; re-appointment of a City Treasurer and a Deputy City Treasurer; and Delegation of Investment Authority. *(Action Item)*
- 8.b. Adoption of Resolutions approving a Debt Management Policy required by Senate Bill 1029. (Joint action with the Sanitary District) *(Action Item)*

## 9. MATTERS FROM THE MAYOR, CITY COUNCIL MEMBERS, AND CITY MANAGER

- 9.a. Resolution promoting community harmony and safety. *(Action Item)*

- 9.b. Discussion regarding parking recreational vehicles, big rig trucks, and trailers on City streets, as requested by Council Member Beard. (*Action Item*)
- 9.c. Discussion on CalPers changes of unfunded actuarial liability and discount rates as requested by City Manager Stiles.
- 9.d. Update on the schedule for the Budget Fiscal Year's 2017-2018 and 2018-2019 upcoming meetings as requested by City Manager Stiles.

10. ADJOURNMENT

The next Regular City Council Meeting will be held on Tuesday, February 14, 2017, at 5:30 p.m. at the Community Meeting Center, 11300 Stanford Avenue, Garden Grove, CA.



**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To:	Scott C. Stiles	From:	Kim Huy
Dept.:	City Manager	Dept.:	Community Services
Subject:	Approval of a written request to waive annual fees associated with the Garden Grove Farmers Market on Main Street. ( <i>Action Item</i> )		
		Date:	1/24/2017

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**OBJECTIVE**

To transmit a letter from the Garden Grove Farmers Market Director, Ms. Lee Ostendorf, requesting approval to waive the annual fees associated with the weekly Farmers Market on Main Street.

**BACKGROUND**

Ms. Ostendorf has served as the Director of the Garden Grove Farmers Market since 2010. The Farmers Market is held every Sunday from 9:00 a.m. to 2:00 p.m. along the historic Main Street.

**DISCUSSION**

The Garden Grove Farmers Market Director is requesting that City Council waive the annual business license fee and the event permit fee that are associated with the weekly Farmers Market on Main Street.

**FINANCIAL IMPACT**

The total amount in fees that would be waived is \$1,968.00. This amount includes the annual business license fee of \$68.50 per vendor, for a total of \$1,918.00 ( 28 vendors), and the annual event permit fee of \$50.00.

**RECOMMENDATION**

It is recommended that the City Council:

- Consider the request from the Garden Grove Farmers Market Director to waive the annual fees associated with the weekly Farmers Market on Main Street.

**ATTACHMENTS:**

<b>Description</b>	<b>Upload Date</b>	<b>Type</b>	<b>File Name</b>
Letter Request from the Garden Grove Farmers Market Director	1/11/2017	Cover Memo	Letter_request_to_waive_all_fees_- _FM_2017.PDF

**Lee Ostendorf**  
5390 E. 8<sup>th</sup> Street  
Long Beach, Ca 90804

January 10, 2017

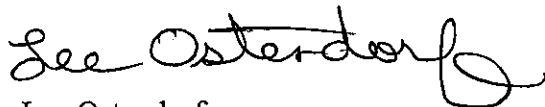
City of Garden Grove  
11222 Acacia Parkway  
Garden Grove, CA 92840

Honorable Mayor and Members of the City Council:

I operate the Garden Grove Farmers' Market, which is held every Sunday from 9 a.m. to 2 p.m. on Historic Main Street.

I really appreciate that every year you have supported the request to waive any City fees associated with the market. It allows the weekly Garden Grove Farmers' Market to continue to operate in the community. Thank you for your consideration to support the Garden Grove Farmers' Market in 2017.

Most Sincerely,

A handwritten signature in black ink that reads "Lee Ostendorf". The signature is fluid and cursive, with a large, stylized "L" and "O".

Lee Ostendorf  
Garden Grove Farmers' Market Director

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To: Scott C. Stiles From: Kim Huy  
Dept.: City Manager Dept.: Community Services  
Subject: Approval of a written request Date: 1/24/2017  
for a one-day use of the  
Willowick Golf Course for the  
annual GGCF Golf Classic.  
(*Action Item*)

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**OBJECTIVE**

To transmit a letter from Jeremy Harris, President, Garden Grove Community Foundation, and Susan Tran, Chairman of the Board, Garden Grove Chamber of Commerce, requesting approval for a one day use of the Willowick Golf Course for the annual fundraising golf tournament on Wednesday, May 10, 2017.

**BACKGROUND**

For the past eleven years, the Garden Grove Community Foundation (GGCF) and the Garden Grove Chamber of Commerce have partnered to plan and coordinate a golf tournament fundraiser known as the GGCF/Chamber Golf Classic. This event is one of the largest and most significant fundraisers for both organizations. Funds raised help support GGCF annual events and also assist the Chamber in promoting the Garden Grove business community and providing resources for tourists who visit Garden Grove.

**DISCUSSION**

Willowick is contractually obligated to grant free use of the golf course to a 501(c)(3) tax exempt organization once a year. Traditionally, the City Council has granted joint use of the golf course to the GGCF and Garden Grove Chamber for the annual golf classic fundraiser. This year's tournament is scheduled for Wednesday, May 10, 2017.

**FINANCIAL IMPACT**

There is no financial impact.

**RECOMMENDATION**

It is recommended that the City Council:

- Consider the attached letter requesting the one day use of the Willowick Golf Course for the GGCF/Chamber Gold Classic on Wednesday, May 10, 2017.

By: Elaine Ma'ae, Administrative Analyst

**ATTACHMENTS:**

<b>Description</b>	<b>Upload Date</b>	<b>Type</b>	<b>File Name</b>
GGCF Facility Request	1/13/2017	Backup Material	GGCF_City_Council_Request_2017.pdf

January 3, 2017

The Honorable Mayor Steve Jones  
City of Garden Grove  
P.O. Box 3070  
Garden Grove, CA 92842

Dear Mayor Jones and Garden Grove City Council Members:

For the past 12 years, the Garden Grove Community Foundation (GGCF) and the Garden Grove Chamber of Commerce have collaborated to plan and coordinate a golf tournament fundraiser known as the GGCF/Chamber Golf Classic. Each year, this joint venture has been highly successful and beneficial for the community.

Our Board of Directors would like to continue this successful partnership and is requesting the City's approval to designate the use of Willowick Golf Course for one day, **Wednesday, May 10, 2017**, to be used for the GGCF/Chamber Golf Classic.

This is one of the largest and most significant fundraisers for both organizations. The proceeds help support GGCF annual events, such as the free summer concert series in Eastgate Park and the Food for Thought luncheon for Garden Grove Unified School District high school students. The funds also assist the Chamber in promoting the Garden Grove business community and providing resources for tourists who visit Garden Grove.

We hope to receive your approval for the use of Willowick by Tuesday, January 24, 2017 so that we can proceed with planning next year's tournament. If you have any questions, please contact the GGCF at (714) 741-5291.

Thank you for your continued support of our organizations!

Sincerely,



Jeremy Harris, President  
Garden Grove Community Foundation



Susan Tran, Chairman of the Board  
Garden Grove Chamber of Commerce

**Board Members**

John Borack - Bruce Broadwater - Joe Hammer Sr. - Steven R. Jones - Ric V. Lerma - Mark McGee - Tam Nguyen - Richard Porras - Jennifer Smalley

**Board Alternates**

Efrain Davalos - Ruby Lau - Arshad Rokerya - Eric Williams

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To:	Scott C. Stiles	From:	William E. Murray
Dept.:	City Manager	Dept.:	Public Works
Subject:	Acceptance of Project No. 7279-Irrigation Installation on Magnolia Street as Complete. ( <i>Action Item</i> )	Date:	1/24/2017

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**OBJECTIVE**

For the City Council to accept Project No. 7279 - Irrigation Installation on Magnolia Street as complete, and authorize the City Manager to execute the Notice of Completion of Public Improvement and Work.

**BACKGROUND**

The City Council awarded a contract to Kato Landscape, Inc., (Contractor) on May 24, 2016, to remove existing turf and pop-up sprinkler irrigation systems, plant drought-tolerant plants and shrubs, and install new subsurface drip irrigation system with Calsense irrigation controllers for energy efficiency.

**DISCUSSION**

The Contractor has completed the improvements in accordance with the plans, specifications and other contract documents.

**FINANCIAL IMPACT**

There is no financial impact to the General Fund. The subject project was funded through Measure "M2" Tier 1 Grant fund (Fund 424) and Water (Fund 602) for matching fund and was completed within project budget and schedule. The retention payment will be released after recordation of the Notice of Completion.

**RECOMMENDATION**

It is recommended that the City Council:

- Accept Project No. 7279 – Irrigation Installation on Magnolia Street as complete;

- Authorize the City Manager to execute the Notice of Completion of Public Works Improvement and Work; and
- Authorize the Finance Director to release the retention payment when appropriate to do so.

By: Navin Maru, Project Engineer

**ATTACHMENTS:**

<b>Description</b>	<b>Upload Date</b>	<b>Type</b>	<b>File Name</b>
NOTICE OF COMPLETION	1/9/2017	Cover Memo	1_24_17_NOC_PROJ_7279.pdf



Attachment: Notice of Completion

RECORDING REQUESTED BY

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When Recorded Mail To:

City Clerk  
City of Garden Grove  
P. O. Box 3070  
Garden Grove, CA 92842

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NOTICE OF COMPLETION  
OF PUBLIC IMPROVEMENT AND WORK

NOTICE IS HEREBY GIVEN that the City of Garden Grove, Orange County, California, has caused a public improvement, to wit:

PROJECT NO. 7279  
IRRIGATION INSTALLATION ON MAGNOLIA STREET,

to be constructed upon the property hereinafter described. The contract for furnishing of all plant, labor, services, materials, and equipment, and all utilities and transportation, including power, fuel, and water, and performing all work necessary to construct and complete, in a good and workmanlike manner in strict accordance with the specifications, plans, and drawings therefore on file in the office of the City Clerk of the City of Garden Grove, for the construction, installation and completion of the above-described public improvement and work, was heretofore made and entered into with Kato Landscape, Inc, on the 24th day of May 2016, and filed for record in the office of the City Clerk of the City of Garden Grove; that the work upon said public improvement has been completed, and that the City Engineer has notified the City Council that he has made and completed a final inspection of the materials furnished and installed and the work performed in the construction, installation, and completion of said public improvement hereinabove more particularly described and set forth, and has certified in writing to the City Council that all the provisions of the contract and contract documents for the furnishing of all plant, labor, services, materials, and equipment, and the performing of all work necessary for the construction, installation, and completion of said public improvement above described have been fully complied with to his satisfaction as required by the contract document; that final acceptance of the construction, installation, and completion of said public improvement above described was made on the 24th day of January, 2017 that the nature of the title to said property of said City of Garden Grove is as follows: That is to say, it owns said public improvement in fee except the right-of-way upon which it is constructed, and that it owns an easement upon, over, and along said right-of-way for the purpose of the construction, installation, and completion of said public improvement hereinabove described and the use thereof after said completion; that the property hereinabove referred to and on which said public improvement is situated is described as follows, to wit:

PROJECT NO. 7279  
IRRIGATION INSTALLATION ON MAGNOLIA STREET,

NAME OF SURETY on Labor and Material Bond is:

U. S. Specialty Insurance Company

625 The City Drive South, #150

Orange, CA 92868

Tel No. (800) 316-5695

DATED this \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_

CITY OF GARDEN GROVE

By \_\_\_\_\_

City Manager of the City of Garden  
Grove

ATTEST:

\_\_\_\_\_  
City Clerk of the City of Garden Grove

STATE OF CALIFORNIA  
COUNTY OF ORANGE


I am the City Engineer of the City of Garden Grove.

I have read the foregoing Notice of Completion of Public Improvement and Work, and know the contents thereof; and I certify that the same is true of my own knowledge, except as to those matters, which are therein stated upon my information or belief, and as to those matters I believe to be true.

I certify (or declare), under penalty of perjury, that the foregoing is true and correct.

Executed on January 24, 2017 at Garden Grove, California  
(Date) (Place)



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

**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 Abundant Water Wells for the destruction of three (3) water wells at 11741 Gilbert Street, 13962 Yockey Street, and 10819 Westminster Avenue, Garden Grove. (Cost: \$89,385) (*Action Item*) Date: 1/24/2017

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**OBJECTIVE**

To seek City Council approval to award a contract to Abundant Water Wells to destroy three (3) orphan water wells located at 11741 Gilbert Street, 13962 Yockey Street, and 10819 Westminster Avenue, Garden Grove.

**BACKGROUND**

An abandoned water well can be a safety hazard and a potential conduit for groundwater contamination. A water well that is no longer useful must be destroyed in order to ensure that the groundwater supply is protected and preserved for further use, and to eliminate any potential physical hazard. The destruction of water wells at 11741 Gilbert Street, 13962 Yockey Street, and 10819 Westminster Avenue, Garden Grove, shall be in accordance with Orange County Ordinance No. 2607.

**DISCUSSION**

An invitation for bids, IFB No. S-1205, was issued and advertised on November 9, 2016, for the destruction of the water wells. Two (2) bids were received as follows with Abundant Water Wells deemed as the responsive bid:

Company Name	Total Bid Amount
<b>Abundant Water Wells</b>	<b>\$ 89,385.00</b>
Best Drilling and Pump, Inc.	\$115,000.00

**FINANCIAL IMPACT**

Funds for this purchase are available in the Water Operations Fund, adopted in the

Fiscal Year 2016/2017 budget. The scrap metal will be sold at the current market value.

#### **RECOMMENDATION**

It is recommended that the City Council:

- Award a contract to Abundant Water Wells in the amount of \$89,385.00 for the destruction of three (3) orphan water wells at 11741 Gilbert Street, 13962 Yockey Street, and 10819 Westminster Avenue, Garden Grove; and
- Authorize the City Manager to execute the contract on behalf of the City and make modifications as necessary.

By: Cel Pasillas, Water Quality Supervisor

#### **ATTACHMENTS:**

<b>Description</b>	<b>Upload Date</b>	<b>Type</b>	<b>File Name</b>
Agreement	1/19/2017	Backup Material	Agreement_with_Abundant_Water_Wells.pdf

## **SECTION 4 - AGREEMENT**

### **PROJECT AGREEMENT**

**THIS AGREEMENT** is made this \_\_\_\_ day of \_\_\_\_\_, 2017 by the CITY OF GARDEN GROVE, a municipal corporation, ("CITY"), and **Abundant Water Wells**, 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, Tools and Equipment for the Abandonment of Three Water Wells at the following locations in the City of Garden Grove.

1. 11741 Gilbert Street, Garden Grove, CA
2. 13962 Yockey Street, Garden Grove, CA
3. 10819 Westminster Avenue, Garden Grove, CA

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 Eight Nine Thousand Three Hundred Eighty Five Dollars (\$89,385.00), 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-1205 and the Scope of Work (Attachment A), which are attached and are hereby incorporated by reference.
- 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, Tools and Equipment for the Abandonment of Three Water Wells at the following locations in the City of Garden Grove.

1. 11741 Gilbert Street, Garden Grove, CA
2. 13962 Yockey Street, Garden Grove, CA
3. 10819 Westminster Avenue, Garden Grove, CA.

**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, Tools and Equipment for the Abandonment of Three Water Wells at the following locations in the City of Garden Grove.

1. 11741 Gilbert Street, Garden Grove, CA
2. 13962 Yockey Street, Garden Grove, CA
3. 10819 Westminster Avenue, Garden Grove, CA

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.** CONTRACTOR agrees to commence the Project with TEN (10) calendar days from the date set forth in the "Notice to Proceed" sent by City and shall diligently prosecute the work to completion within **thirty (30) working days**, excluding delays caused or authorized by the CITY as set forth in Sections 4.7, 4.8 and 4.9 hereof. The completion dates shall include any material delivery.

**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 Requirements.

**4.16.6.1** 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 and a waiver of subrogation for each policy. All subcontractors shall be required to provide the same insurance as CONTRACTOR herein. CONTRACTOR shall be responsible to collect and maintain all insurance from all subcontractors.

**4.16.6.2 WORKERS COMPENSATION INSURANCE.** For the duration of this Agreement, CONTRACTOR 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.

**4.16.6.3 INSURANCE AMOUNTS.** CONTRACTOR shall maintain the following insurance for the duration of this Agreement:

- (a) Commercial general liability in an amount not less than \$2,000,000 per occurrence; **(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.

An Additional Insured Endorsement, **ongoing and completed operations**, for the policy under section 4.16.6.3 (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 4.16.6.3 (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.

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.

In the event any of CONTRACTOR'S underlying policies do not meet policy limits within the insurance requirements, 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 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.

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 two (2) years 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: Abundant Water Wells  
                                    Attention: Loren Worthington  
                                    10600 Leona Avenue  
                                    Leona Valley, CA 93551

**4.22 Appropriations.** This Agreement is subject to and contingent upon funds being appropriated therefor by the Garden Grove City Council for each fiscal year covered by the term of this Agreement. If such appropriations are not made, this Agreement shall automatically terminate without penalty to the CITY.

\\ \\ \\

(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

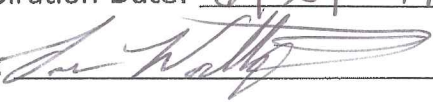
Date: \_\_\_\_\_

**"CONTRACTOR"**  
**Abundant Water Wells**

Contractor's State Lic. No. 981850

DIR Registration No.: 1000042386

Expiration Date: 6/30/2017

By: 


Title: OWNER

Date: 12/16/16

Tax ID No. 47-3037043

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"**

### **SCOPE OF WORK FOR IFB NO. S-1205 PAGE 1 OF 2**

#### **Furnish all Labor, Material, Tools and Equipment for the Abandonment of Three Water Wells in the City of Garden Grove**

The City of Garden Grove Public Works Departments is seeking to enter into a single contract with a qualified contractor for the abandonment of three (3) water wells in the City of Garden Grove.

**Water Well Locations:** Please note that the project locations are considered **private property** and no contractor shall be on the property without prior consent of the City of Garden Grove.

All documents are available on the City's website to those interested in bidding the project. You must register as a vendor on the City's website in order to access the bid documents. The bid process is handled electronically so it is important to register as a vendor to receive all updates regarding this project.

The City will obtain permission from property owners for site access to well sites. No special permit for this is required of the contractor.

- 1) 13962 Yockey Street
- 2) 10819 Westminster Avenue
- 3) 11741 Gilbert Street

#### **CONTRACTOR REQUIREMENTS**

In order to bid this project the contractor must comply with the following requirements:

**Contractor License:** Contractor shall possess a valid C-57 Contractor's License. There will be no exceptions to the licensing requirement.

**References:** Contractor shall submit a minimum of five (5) references that demonstrate work for related type of work.

**Water Well Standards:** Contractor shall follow and be in compliance with the Orange County Water Well Standards, Part III: Destruction of Wells, which are included in the bid document as part of this Attachment A.

**Permits:** The contractor shall obtain all necessary permits from Orange County Environmental Health Care Agency. Please see "Application for Well Destruction Permit" which is included in this bid document.

## **ATTACHMENT "A"**

### **SCOPE OF WORK FOR IFB NO. S-1205 PAGE 2 OF 2**

#### **Furnish all Labor, Material, Tools and Equipment for the Abandonment of Three Water Wells in the City of Garden Grove**

**Scrap Metal:** Contractor shall return all metal scrap back to the City Yard and dump in the designated scrap area.

Contractor is responsible for any and all damage to the property and surrounding property at all well locations.

Contractor is responsible to provide all necessary traffic control at all three well sites to perform the work.

**Underground Service Alerts:** All Underground Service Alerts shall be handled by the Contractor.

**Pre-Bid Meeting and Site Walk:** A MANDATORY pre-bid meeting is scheduled for at the Water Well located at 11741 Gilbert Street, Garden Grove, CA. Since the City does not have any data on the wells it is mandatory to walk all three of the water well sites. Only bid proposals submitted by those contractors attending this meeting will be given consideration.

## ATTACHMENT "B" (BID PROPOSAL)

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 Furnish all Labor, Material, Tools and Equipment for the Abandonment of Three Water Wells in the City of Garden Grove. HEREBY PROPOSE to furnish all labor, materials, and equipment and do all the work required to complete work in accordance with the Plans and Specifications for the sum of:

BID PROPOSAL	
LOCATION	TOTAL COST OF THE PROJECT
Abandonment of Three (3) Water Well Sites located at: 1. 11741 Gilbert Street, Garden Grove, CA 2. 13962 Yockey Street, Garden Grove, CA 3. 10819 Westminster Avenue, Garden Grove, CA	\$ <u>89,385.00</u>  (TOTAL COST FOR ALL THREE (3) WATER WELL SITES.)
TOTAL COST in Written Words:	<i>Eighty-nine thousand three hundred eighty five dollars</i>
The above bid price includes all applicable taxes for the pricing proposed in this submittal. <b>Note:</b> In case of discrepancy between the words and figures, the words shall prevail.	

**All three (3) water well sites are included in this bid and partial bids will not be accepted for any reason.**

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 Bidder acknowledges receipt of amendments to the Solicitation and related documents numbered and dated:

<u>Amendment No.</u>	<u>Date</u>
# 1	11/15/16

(e) undersigned has not in any manner sought, by collusion, to secure for himself an advantage over any other bidder.

Check below where appropriate:

☐ Partnership: That \_\_\_\_\_ are partners, doing  
(Names of all Partners)

business under the firm name of \_\_\_\_\_ and that  
the co-partnership makes the accompanying proposal.

☐ Corporation: That \_\_\_\_\_ of \_\_\_\_\_ makes  
(President or Secretary) (Name of Corporation)

the accompanying proposal.

☒ Individual: That BLINDANT WATER WORKS is the bidder and makes the  
(Name of Individual)  
accompanying proposal. LOREN WORTHINGTON

Date: 12/6/16

ABUNDANT WATER WELLS  
Company Name

P.O. BOX 700  
Address

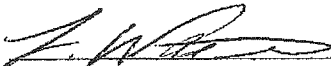
VENNA VALLEY, CA 93551  
City - State - Zip

661 713 3443  
Telephone

981850  
CA Contractors License Number

1000042386  
DIR Registration Number.

LOREN WORTHINGTON  
Bidder's Full Name (Please Print)

  
Authorized Signature

**SECTION 3 - DOCUMENTS (Cont.).**

**DESIGNATION OF SUB-CONTRACTORS**


1. Pursuant to Public Contract Code Sections §4104 of California Public Contract Code, the undersigned certifies that it has used the sub-bids of the following listed subcontractors to whom the Bidder proposes to subcontract portions of the work in an amount in excess of one-half of one percent of the total Bid Proposal and that the subcontractors listed will be used for the work for which they bid subject to the approval of the Engineer and in accordance with the applicable provisions of the Specifications. Please attach additional pages if needed.

1. Name of Subcontractor: \_\_\_\_\_ DIR Reg# \_\_\_\_\_  
Address: \_\_\_\_\_ Phone No: \_\_\_\_\_  
Individual, Partnership or Corporation: \_\_\_\_\_  
Work to be performed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Name of Subcontractor: \_\_\_\_\_ DIR Reg# \_\_\_\_\_  
Address: \_\_\_\_\_ Phone No: \_\_\_\_\_  
Individual, Partnership or Corporation: \_\_\_\_\_  
Work to be performed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. Name of Subcontractor: \_\_\_\_\_ DIR Reg# \_\_\_\_\_  
Address: \_\_\_\_\_ Phone No: \_\_\_\_\_  
Individual, Partnership or Corporation: \_\_\_\_\_  
Work to be performed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. Name of Subcontractor: \_\_\_\_\_ DIR Reg# \_\_\_\_\_  
Address: \_\_\_\_\_ Phone No: \_\_\_\_\_  
Individual, Partnership or Corporation: \_\_\_\_\_  
Work to be performed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ABUNDANT WATER WORKS  
**BIDDER'S NAME**  
  
**AUTHORIZED SIGNATURE**



**SECTION 3 - DOCUMENTS (Cont.).**

**QUESTIONNAIRE TO GENERAL CONTRACTORS**

1. Were bid depository or registry services used in obtaining subcontractor bid figures in order to compute your bid?  
Yes ( ) No (X)
2. If the answer to No. 1 is "yes", please forward a copy of the rules of each bid depository you used with this questionnaire.
3. Did you have any source of subcontractors' bids other than bid depositories?  
Yes ( ) No (X)
4. Has any person or group threatened you with subcontractor boycotts, union boycotts or other sanctions to attempt to convince you to use the services or abide by the rules of one or more bid depositories?  
Yes ( ) No (X)
5. If the answer to No. 4 is "Yes", please explain the following details:  
(a) Date:  
(b) Name or person or group:  
(c) Job involved (if applicable):  
(d) Nature of threats:  
(e) Additional Comments:  
(Use additional paper if necessary)

\*\*\*\*\*  
\*\*\*\*\***WORKER'S COMPENSATION REQUIREMENT**\*\*\*\*\*

I am aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured for worker's compensation or to undertake self-insurance in accordance with the provisions of that Code and I will comply with such provisions before commencing the performance of the work of this contract.

ABUNDANT WATER WORKS  
**BIDDER'S NAME**

[Signature]  
**AUTHORIZED SIGNATURE**

**Per Labor Code 1861**

### CONTRACTORS QUESTIONNAIRE

1. List any lawsuit(s) filed against you or your firm over the past ten (10) years for breach of non-performance of contract.

/

2. List the results of any lawsuit(s): \_\_\_\_\_

\_\_\_\_\_

3. List any claim(s) filed by subcontractors against you or your firm over the past ten (10) years:

/

4. List the results of each claim: \_\_\_\_\_

\_\_\_\_\_

5. List any disciplinary action and the ultimate disposition within the past ten (10) years taken against you or your firm by the State Contractor's License Board:

/

\_\_\_\_\_

6. List projects similar to the type applied for herein which you have worked on and how recently the project was performed:

THE CHERRY FARM, LEONA VALLEY, CA Abandoned 600' well - 4/2016

RANCHO PALOS VERDES Abandoned 400' well 10/2016

**I DECLARE UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE, COMPLETE, ACCURATE AND CORRECT.**

Dated: 12/6/16

[Signature]

Contractor's Signature



State Of California  
CONTRACTORS STATE LICENSE BOARD  
ACTIVE LICENSE



License Number

**981850**

Entity **INDIV**

Business Name

**ABUNDANT WATER WELLS**

Classification(s) **C57**

Expiration Date **03/31/2017**

[www.cslb.ca.gov](http://www.cslb.ca.gov)



**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To:	Scott Stiles	From:	Tom Schultz
Dept.:	City Manager	Dept.:	Fire
Subject:	Authorize the issuance of a purchase order to Aardvark for Project 7 armor equipment for Fire and Police Departments. (Cost: \$92,301.30) ( <i>Action Item</i> )		
		Date:	1/24/2017

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**OBJECTIVE**

To secure City Council authorization to purchase Project 7 armor for the Fire Department's Tactical Emergency Medical Services (TEMS), and the Police Department's Special Weapons and Tactics (SWAT).

**BACKGROUND**

The Fire Department's specialized TEMS is designed to augment the Police Department's SWAT. SWAT is highly trained in the use of special weapons and tactics for the purpose of handling high risk situations involving barricaded suspects, hostage takers, high risk warrant service, or other situations. The TEMS members train with the SWAT team, respond when needed, and are infused in the SWAT team to secure immediate life-saving medical treatment for officers and residents in the danger zone during high-risk incidents. Additionally, for standardization, TEMS must be equipped with the same SWAT level protective armor gear.

**DISCUSSION**

Both the Fire and Police Department are in need of a combined total of 16 sets of protective armor to fully outfit TEMS, and replace expired sets in SWAT. Protective armor gear has a shelf-life and once expired the life-saving capability is compromised. The Fire and Police Department collaboratively looked at the industry's best in protective armor and field tested different brands. Project 7 armor is the brand that best meets the needs of TEMS and SWAT. Section 2.50.060 C. of the Municipal Code bidding may be dispensed when the Finance Director has determined that the commodity is only available through one vendor.

**FINANCIAL IMPACT**

The Fire and Police Department will utilize public safety restrictive funds to cover the cost. There will be no additional burden to the City's general fund.

#### **RECOMMENDATION**

It is recommended that City Council:

- Authorize the use of sole source distributor Aardvark for the purchase of all Project 7 Armor; and
- Authorize the Finance Director to issue a purchase order to Aardvark in the amount of \$92,301.30 for the purchase of 16 Project 7 armor sets for use by the Fire and Police Departments.

By: Lucia Medina-Whittaker, Fiscal Analyst

#### **ATTACHMENTS:**

<b>Description</b>	<b>Upload Date</b>	<b>Type</b>	<b>File Name</b>
Attachment 1 - AARTAC Project 7 Sole Source	12/20/2016	Backup Material	Attachment_1_-_AARTAC_Project_7_Sole_Source.pdf

April 26, 2016

To Whom It May Concern:

This letter is to certify that Project 7 armor is available exclusively from AARDVARK. Project 7 is a brand owned and operated by AARDVARK. While Safariland is the manufacturer of these items, they are made exclusively as OEM items for AARDVARK. This armor system features a unique combination of features, including patented or patent pending items, which are not available in this combination anywhere else. As a result, AARDVARK is the sole source for Project 7 armor.

Should you require additional information please feel free contact me via telephone at 909.930.8096 or via email [Todd.Mackler@Safariland.com](mailto:Todd.Mackler@Safariland.com)

Regards,



Todd Mackler  
VP, Armor

Cc: Jon Becker

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To:	Scott C. Stiles	From:	William E. Murray
Dept.:	City Manager	Dept.:	Public Works
Subject:	Approval of Amendment No. 1 to the agreement with Engineering Resources of Southern California, Inc., to provide on call civil engineering plan checking and construction inspection services. (Cost: \$100,000) ( <i>Action Item</i> )		
		Date:	1/24/2017

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**OBJECTIVE**

To request City Council approval to amend an agreement with Engineering Resources of Southern California, Inc., for on-call civil engineering plan checking and construction inspection services, increasing the initial agreement amount from \$500,000 to \$600,000, a \$100,000 increase.

**BACKGROUND**

The Land Development Section (Section) in the Engineering Division has two vacancies that comprise 50 percent of the Section's staff, which will not be filled in the near term. With the local economy recovering, redevelopment activity is steadily increasing, creating heavier workloads and demanding faster turnaround times from staff. For these reasons, staff is requesting to add \$100,000 to the existing agreement with Engineering Resources of Southern California, Inc., to cover consultant civil engineering plan checking and construction inspection services to meet development needs within the community.

**DISCUSSION**

The services required by Engineering Resources of Southern California, Inc., include plan checking grading plans, street improvement plans, tenant improvements plans, water quality improvement plans, tentative and final parcel and tract maps, lot line adjustments, legal descriptions, survey and easement documents.

**FINANCIAL IMPACT**

There is no impact to the General Fund. The costs for these services are fully recovered by land development fees charged to private development.

#### **RECOMMENDATION**

It is recommended that the City Council:

- Approve Amendment No. 1 to the existing Agreement with Engineering Resources of Southern California, Inc., increasing the initial Agreement amount from \$500,000 to \$600,000 – a \$100,000 increase and;
- Authorize the City Manager to execute Amendment No. 1 to the professional services agreement on behalf of the City and to make minor modifications as appropriate.

By: Kamyar Dibaj, Project Engineer

#### **ATTACHMENTS:**

<b>Description</b>	<b>Upload Date</b>	<b>Type</b>	<b>File Name</b>
AMENDMENT	1/9/2017	Cover Memo	1_24_17_AMENDMENT_ENGR.pdf



**CITY OF GARDEN GROVE**

**AMENDMENT NO. 1**

**To provide On-Call Civil Engineering Plan Checking and Construction Inspection Services as set forth in CONSULTANT'S proposal attached hereto as Exhibit 'A'.**

This Amendment No.1 is made and entered into this 24<sup>th</sup> day of January 2017, by and between the **CITY OF GARDEN GROVE**, hereinafter referred to as "CITY", and **ENGINEERING RESOURCES OF SOUTHERN CALIFORNIA, INC.**, hereinafter referred to as "CONSULTANT".

WHEREAS, CONSULTANT and CITY entered into an Agreement for CONSULTANT to provide On-Call Civil Engineering Plan Checking and Construction Inspection Services, effective January 12, 2016 (the "Agreement").

WHEREAS, CONSULTANT and CITY desire to amend the existing Agreement as provided herein.

Now, therefore, it is mutually agreed, by and between the parties as follows:

1. Section 3.0, Compensation, is hereby amended as follows:

The Not-to-Exceed compensation amount set forth in Section 3.2 of the Agreement is hereby increased from Five-Hundred Thousand Dollars (\$500,000) to Six-Hundred Thousand Dollars (\$600,000), an increase of One-Hundred Thousand Dollars (\$100,000).

Except as expressly amended by this Amendment No. 1, all provisions of the existing Agreement shall remain in full force and effect as originally executed.

*[SIGNATURES ON FOLLOWING PAGE]*

IN WITNESS WHEREOF, the parties have caused this Amendment No. 1 to the existing Agreement to be executed by their respective officers duly authorized on the date first written above.

**"CITY"**  
**CITY OF GARDEN GROVE,** a  
municipal corporation

Dated: \_\_\_\_\_, 2017

By: \_\_\_\_\_  
Scott C. Stiles  
City Manager

**ATTEST**

**"CONSULTANT"**  
Engineering Resources of Southern  
California, Inc. a California  
Corporation

\_\_\_\_\_  
City Clerk

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

Dated: \_\_\_\_\_, 2017

Dated: \_\_\_\_\_, 2017

**APPROVED AS TO FORM:**

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

  
\_\_\_\_\_  
Garden Grove City Attorney

Dated: January 5, 2017

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To:	Scott C. Stiles	From:	Laura Stover
Dept.:	Office of the City Manager	Dept.:	Human Resources
Subject:	Approval of a new position classification for a Network Administrator. ( <i>Action Item</i> )	Date:	1/24/2017

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**OBJECTIVE**

To obtain City Council approval for a new classification of Network Administrator.

**BACKGROUND**

The City has been operating without staff dedicated solely to the administration and monitoring of the City's network. As part of an effort to ensure a safe and smooth operation of the City's network, a request was made by the I.T. Director to create a new position that would be responsible for the City's network and telecommunications systems related issues.

**DISCUSSION**

Currently, monitoring the City's network and data is a responsibility that is shared by the Information Systems Manager and the Information Technology Systems Analysts. However, as technology develops and the City becomes increasingly dependent upon the storage of digital information, the criticality and need for a dedicated full-time position responsible for monitoring and ensuring the security of the City's network and stored data is of high importance.

Since the City does not have the classification within the Information Technology family, it is necessary to create a new classification of Network Administrator. The recommended range is E179. The job description is attached for reference.

**FINANCIAL IMPACT**

There is no financial impact to the current Fiscal Year 2016/2017 budget, because the position will not be filled until next Fiscal Year 2017/2018 budget. Funds for the new classification of Network Administrator are being included in the proposed FY 2017/18 budget, subject to approval in the next budgetary approval process.

Approval of the new classification of Network Administrator would add approximately

\$113,100 annually to the FY 2017/18 budget; however, funds from the current vacant Part-Time Information Technology Technician of \$38,288 will be allocated towards this classification, and the remaining balance of \$74,812 will need to be added in the FY 2017/18 budget.

## RECOMMENDATION

It is recommended that the City Council:

- Adopt the attached Resolution approving the creation of the classification of Network Administrator at range E179; and
- Approve the attached Salary Schedule.

By: Jany Lee, Human Resources Manager

### ATTACHMENTS:

Description	Upload Date	Type	File Name
Classification Specification: Network Administrot	1/13/2017	Cover Memo	Class_Spec_- _Network_Administrator.docx
Resolution	1/13/2017	Cover Memo	Resolution_- _Network_Administrator_2017.docx
Salary Schedule	1/13/2017	Cover Memo	paymosal_01242017.pdf

# **CITY OF GARDEN GROVE**

## **NETWORK ADMINISTRATOR**

CLASS CODE: TBD

RANGE: E179

### **DEFINITION:**

Under general direction, maintains and administers computer networks and related computing environments and communication systems.

### **EXAMPLES OF DUTIES:**

Design, maintain, troubleshoot, and ensure the security of the LAN/WAN environment, and audio and video communication systems;

Administer and maintain central network user account security, telephone and voicemail, and alarm and access control databases;

Maintain diagrams, charts, and document on all facets of the City's network and voice systems;

Configure, administer, and maintain computers and servers, including hardware and software installation, data encryption, and update/patch maintenance;

Administer firewall, anti-spam and anti-virus servers;

Research, evaluate, implement, administer and maintain virtualization environment;

Administer and assist in the development of the Business Continuity Plan

Coordinate onsite installation, integration, testing, and servicing performed by outside consultants, contractors, and public agencies;

Recommend hardware, software, voice, and data network confirmation changes or upgrades based on usage, repair history, useful life of equipment, and input from departments;

Assist division manager with development of the communications budget;

Perform other related duties as assigned.

**MINIMUM QUALIFICATIONS:****Experience:**

Two years of experience in systems analysis, network design or administration.

**Education:**

Associate's degree with major coursework in computer science, information systems, or network administration or related field. Bachelor's degree is highly desirable.

**Knowledge of:**

Set-up, operations, configuration, and troubleshooting of networks and principles and practices of network administration; set-up, operation, repair and maintenance of computers and servers in a LAN/WAN/wireless environment; setup, administration, and troubleshooting computer peripherals, such as printers, drives, modems, and network communication equipment; operations, services, characteristics and activities of a comprehensive telephone and voice system; process and procedures of disaster recovery and backup; and City systems and programs, including network and computer operating systems, databases, email systems, antivirus products, and back-up products.

**Ability to:**

Learn and apply information technology concepts, practices, and procedures; constantly learn and keep updated of new technology and trends in the field; assess and recommend new technology and processes to improve technological services; work independently with little to no supervision; communicate effectively with coworkers, staff and consultants; analyze and troubleshoot technological problems; take initiative and motivate self and others to complete work; and provide quality customer service.

**Other Requirements:**

California Class "C" driver's license is highly desirable.

**PHYSICAL DEMANDS:**

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Incumbents in this classification type, work on a personal computer, sit, speak clearly and hear normal voice conversation, see small details, and lift and carry up to 25 lbs.

**WORK ENVIRONMENT:**

The work environment described here is representative of those an employee encounters while performing the essential functions of this job. Incumbents in this

classification primarily work inside and may be required to work overtime and weekends.

**JOB FAMILY:**

Information Technology Technician, **Network Administrator**, Senior Information Technology Analyst, Information Technology Manager

Adopted: tbd

RESOLUTION NO.

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDEN GROVE,  
CALIFORNIA, ADDING NEW EMPLOYEE CLASSIFICATION AND SALARY RANGE FOR  
NETWORK ADMINISTRATOR

WHEREAS, the City Council previously approved employee classifications and salary ranges for the different represented and unrepresented employee classifications in the City; and

WHEREAS, one new class of employment with the City and its appropriate salary range is now necessary to be added.

NOW, THEREFORE, the City Council of the City of Garden Grove does hereby resolve as follows:

Section 1. The following employment classification and salary range is hereby established:

<u>Classification</u>	<u>Salary Range</u>
Network Administrator	E179

Section 2. The attached Salary Schedule to be effective January 25, 2017, is hereby approved.

PASSED, APPROVED AND ADOPTED this 24<sup>th</sup> of January, 2017.

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STEVEN R. JONES, MAYOR

ATTEST:

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TERESA L. POMEROY, CITY CLERK



## CITY OF GARDEN GROVE PAY RATES

PAGE

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13 Jan 2017

CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
053	ACCOUNT SPECIALIST	E112	A	3295.00	1520.77	19.0096
			B	3460.00	1596.92	19.9615
			C	3633.00	1676.77	20.9596
			D	3815.00	1760.77	22.0096
			E	4006.00	1848.92	23.1115
			F	4206.00	1941.23	24.2654
			G	4416.00	2038.15	25.4769
			H			
054	ACCOUNTANT	E160	A	5311.00	2451.23	30.6404
			B	5577.00	2574.00	32.1750
			C	5856.00	2702.77	33.7846
			D	6149.00	2838.00	35.4750
			E	6456.00	2979.69	37.2462
			F	6779.00	3128.77	39.1096
			G	7118.00	3285.23	41.0654
			H			
039	ACCOUNTING MANAGER	M194	A	7306.00	3372.00	42.1500
			B	7671.00	3540.46	44.2558
			C	8055.00	3717.69	46.4712
			D	8458.00	3903.69	48.7962
			E	8881.00	4098.92	51.2365
			F	9325.00	4303.85	53.7981
			G	9791.00	4518.92	56.4865
			H			
015	ACCOUNTING SUPERVISOR	M176	A	6107.00	2818.62	35.2327
			B	6412.00	2959.38	36.9923
			C	6733.00	3107.54	38.8442
			D	7070.00	3263.08	40.7885
			E	7424.00	3426.46	42.8308
			F	7795.00	3597.69	44.9712
			G	8185.00	3777.69	47.2212
			H			
060	ACCOUNTING TECHNICIAN	E152	A	4905.00	2263.85	28.2981
			B	5150.00	2376.92	29.7115
			C	5408.00	2496.00	31.2000
			D	5678.00	2620.62	32.7577
			E	5962.00	2751.69	34.3962
			F	6260.00	2889.23	36.1154
			G	6573.00	3033.69	37.9212
			H			
024	ADM AIDE	E135	A	4143.00	1912.15	23.9019
			B	4350.00	2007.69	25.0962
			C	4568.00	2108.31	26.3538
			D	4796.00	2213.54	27.6692
			E	5036.00	2324.31	29.0538
			F	5288.00	2440.62	30.5077
			G	5552.00	2562.46	32.0308
			H			

CITY OF GARDEN GROVE PAY RATES  
13 Jan 2017

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
016	ADM ANALYST	M150	A	4716.00	2176.62	27.2077
			B	4952.00	2285.54	28.5692
			C	5200.00	2400.00	30.0000
			D	5460.00	2520.00	31.5000
			E	5733.00	2646.00	33.0750
			F	6020.00	2778.46	34.7308
			G	6321.00	2917.38	36.4673
			H			
063	ADM SECRETARY	M162	A	5312.00	2451.69	30.6462
			B	5578.00	2574.46	32.1808
			C	5857.00	2703.23	33.7904
			D	6150.00	2838.46	35.4808
			E	6458.00	2980.62	37.2577
			F	6781.00	3129.69	39.1212
			G	7120.00	3286.15	41.0769
			H			
202	ANIMAL CONTROL OFFICER	E153	A	4954.00	2286.46	28.5808
			B	5202.00	2400.92	30.0115
			C	5462.00	2520.92	31.5115
			D	5735.00	2646.92	33.0865
			E	6022.00	2779.38	34.7423
			F	6323.00	2918.31	36.4788
			G	6639.00	3064.15	38.3019
			H			
073	ASSIST BUYER	E134	A	4100.00	1892.31	23.6538
			B	4305.00	1986.92	24.8365
			C	4520.00	2086.15	26.0769
			D	4746.00	2190.46	27.3808
			E	4983.00	2299.85	28.7481
			F	5232.00	2414.77	30.1846
			G	5494.00	2535.69	31.6962
			H			
012	ASSIST TO CITY MGR	M186	A	6746.00	3113.54	38.9192
			B	7083.00	3269.08	40.8635
			C	7437.00	3432.46	42.9058
			D	7809.00	3604.15	45.0519
			E	8199.00	3784.15	47.3019
			F	8609.00	3973.38	49.6673
			G	9039.00	4171.85	52.1481
			H			
027	ASSISTANT CITY MGR	C255	A	13407.00	6187.85	77.3481
			B	14077.00	6497.08	81.2135
			C	14781.00	6822.00	85.2750
			D	15520.00	7163.08	89.5385
			E	16296.00	7521.23	94.0154
			F	17111.00	7897.38	98.7173
			G	17967.00	8292.46	103.6558
			H			

CITY OF GARDEN GROVE PAY RATES  
13 Jan 2017

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
215	ASSOCIATE ENGINEER	E195	A	7525.00	3473.08	43.4135
			B	7901.00	3646.62	45.5827
			C	8296.00	3828.92	47.8615
			D	8711.00	4020.46	50.2558
			E	9147.00	4221.69	52.7712
			F	9604.00	4432.62	55.4077
			G	10084.00	4654.15	58.1769
			H			
272	ASSOCIATE PLANNER	E161	A	5364.00	2475.69	30.9462
			B	5632.00	2599.38	32.4923
			C	5914.00	2729.54	34.1192
			D	6210.00	2866.15	35.8269
			E	6521.00	3009.69	37.6212
			F	6847.00	3160.15	39.5019
			G	7189.00	3318.00	41.4750
			H			
286	ASST COMM SERV SUPV	E150	A	4808.00	2219.08	27.7385
			B	5048.00	2329.85	29.1231
			C	5300.00	2446.15	30.5769
			D	5565.00	2568.46	32.1058
			E	5843.00	2696.77	33.7096
			F	6135.00	2831.54	35.3942
			G	6442.00	2973.23	37.1654
			H			
214	ASST ENGINEER	E175	A	6167.00	2846.31	35.5788
			B	6475.00	2988.46	37.3558
			C	6799.00	3138.00	39.2250
			D	7139.00	3294.92	41.1865
			E	7496.00	3459.69	43.2462
			F	7871.00	3632.77	45.4096
			G	8265.00	3814.62	47.6827
			H			
271	ASST PLANNER	E150	A	4808.00	2219.08	27.7385
			B	5048.00	2329.85	29.1231
			C	5300.00	2446.15	30.5769
			D	5565.00	2568.46	32.1058
			E	5843.00	2696.77	33.7096
			F	6135.00	2831.54	35.3942
			G	6442.00	2973.23	37.1654
			H			
130	BENEFITS SUPERVISOR	M171	A	5811.00	2682.00	33.5250
			B	6102.00	2816.31	35.2038
			C	6407.00	2957.08	36.9635
			D	6727.00	3104.77	38.8096
			E	7063.00	3259.85	40.7481
			F	7416.00	3422.77	42.7846
			G	7787.00	3594.00	44.9250
			H			

CITY OF GARDEN GROVE PAY RATES  
13 Jan 2017

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
230	BLDG INSPECTOR	E160	A	5311.00	2451.23	30.6404
			B	5577.00	2574.00	32.1750
			C	5856.00	2702.77	33.7846
			D	6149.00	2838.00	35.4750
			E	6456.00	2979.69	37.2462
			F	6779.00	3128.77	39.1096
			G	7118.00	3285.23	41.0654
			H			
031	BUDGET SVCS MGR	M194	A	7306.00	3372.00	42.1500
			B	7671.00	3540.46	44.2558
			C	8055.00	3717.69	46.4712
			D	8458.00	3903.69	48.7962
			E	8881.00	4098.92	51.2365
			F	9325.00	4303.85	53.7981
			G	9791.00	4518.92	56.4865
			H			
238	BUILDING OFFICIAL	M215	A	9003.00	4155.23	51.9404
			B	9453.00	4362.92	54.5365
			C	9926.00	4581.23	57.2654
			D	10422.00	4810.15	60.1269
			E	10943.00	5050.62	63.1327
			F	11490.00	5303.08	66.2885
			G	12065.00	5568.46	69.6058
			H			
241	BUSINESS TAX INSPECTOR	E143	A	4485.00	2070.00	25.8750
			B	4709.00	2173.38	27.1673
			C	4944.00	2281.85	28.5231
			D	5191.00	2395.85	29.9481
			E	5451.00	2515.85	31.4481
			F	5724.00	2641.85	33.0231
			G	6010.00	2773.85	34.6731
			H			
029	BUSINESS TAX SUPV	M166	A	5528.00	2551.38	31.8923
			B	5804.00	2678.77	33.4846
			C	6094.00	2812.62	35.1577
			D	6399.00	2953.38	36.9173
			E	6719.00	3101.08	38.7635
			F	7055.00	3256.15	40.7019
			G	7408.00	3419.08	42.7385
			H			
072	BUYER	E154	A	5003.00	2309.08	28.8635
			B	5253.00	2424.46	30.3058
			C	5516.00	2545.85	31.8231
			D	5792.00	2673.23	33.4154
			E	6082.00	2807.08	35.0885
			F	6386.00	2947.38	36.8423
			G	6705.00	3094.62	38.6827
			H			

CITY OF GARDEN GROVE PAY RATES  
13 Jan 2017

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
038	CABLE PROD SUPERVISOR	M166	A	5528.00	2551.38	31.8923
			B	5804.00	2678.77	33.4846
			C	6094.00	2812.62	35.1577
			D	6399.00	2953.38	36.9173
			E	6719.00	3101.08	38.7635
			F	7055.00	3256.15	40.7019
			G	7408.00	3419.08	42.7385
			H			
019	CABLE PRODUCTION COORD	E150	A	4808.00	2219.08	27.7385
			B	5048.00	2329.85	29.1231
			C	5300.00	2446.15	30.5769
			D	5565.00	2568.46	32.1058
			E	5843.00	2696.77	33.7096
			F	6135.00	2831.54	35.3942
			G	6442.00	2973.23	37.1654
			H			
240	CHIEF OF COLLECTIONS	M171	A	5811.00	2682.00	33.5250
			B	6102.00	2816.31	35.2038
			C	6407.00	2957.08	36.9635
			D	6727.00	3104.77	38.8096
			E	7063.00	3259.85	40.7481
			F	7416.00	3422.77	42.7846
			G	7787.00	3594.00	44.9250
			H			
125	CITY ATTORNEY	C	A	0.00	0.00	
			B			
			C			
			D			
			E			
			F			
			G			
			H			
020	CITY CLERK	M199	A	7679.00	3544.15	44.3019
			B	8063.00	3721.38	46.5173
			C	8466.00	3907.38	48.8423
			D	8889.00	4102.62	51.2827
			E	9333.00	4307.54	53.8442
			F	9800.00	4523.08	56.5385
			G	10290.00	4749.23	59.3654
			H			
200	CITY ENGINEER	M224	A	9847.00	4544.77	56.8096
			B	10339.00	4771.85	59.6481
			C	10856.00	5010.46	62.6308
			D	11399.00	5261.08	65.7635
			E	11969.00	5524.15	69.0519
			F	12567.00	5800.15	72.5019
			G	13195.00	6090.00	76.1250
			H			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
120	CITY MANAGER	C900	A	0.00	0.00	
			B			
			C			
			D			
			E			
			F			
			G	21333.00	9846.00	123.0750
			H			
058	CLERICAL ASSISTANT	E108	A	3167.00	1461.69	18.2712
			B	3325.00	1534.62	19.1827
			C	3491.00	1611.23	20.1404
			D	3666.00	1692.00	21.1500
			E	3849.00	1776.46	22.2058
			F	4041.00	1865.08	23.3135
			G	4243.00	1958.31	24.4788
			H			
235	CODE ENFORCEMENT OFF	E153	A	4954.00	2286.46	28.5808
			B	5202.00	2400.92	30.0115
			C	5462.00	2520.92	31.5115
			D	5735.00	2646.92	33.0865
			E	6022.00	2779.38	34.7423
			F	6323.00	2918.31	36.4788
			G	6639.00	3064.15	38.3019
			H			
034	COMM DEVELOP DIR	C245	A	12136.00	5601.23	70.0154
			B	12743.00	5881.38	73.5173
			C	13380.00	6175.38	77.1923
			D	14049.00	6484.15	81.0519
			E	14751.00	6808.15	85.1019
			F	15489.00	7148.77	89.3596
			G	16263.00	7506.00	93.8250
			H			
289	COMM SERV COORD	E130	A	3941.00	1818.92	22.7365
			B	4138.00	1909.85	23.8731
			C	4345.00	2005.38	25.0673
			D	4562.00	2105.54	26.3192
			E	4790.00	2210.77	27.6346
			F	5030.00	2321.54	29.0192
			G	5282.00	2437.85	30.4731
			H			
035	COMM SVCS DIRECTOR	C240	A	11547.00	5329.38	66.6173
			B	12124.00	5595.69	69.9462
			C	12730.00	5875.38	73.4423
			D	13367.00	6169.38	77.1173
			E	14035.00	6477.69	80.9712
			F	14737.00	6801.69	85.0212
			G	15474.00	7141.85	89.2731
			H			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
085	COMMUNICATIONS SHIFT SUPER	E160	A	5311.00	2451.23	30.6404
			B	5577.00	2574.00	32.1750
			C	5856.00	2702.77	33.7846
			D	6149.00	2838.00	35.4750
			E	6456.00	2979.69	37.2462
			F	6779.00	3128.77	39.1096
			G	7118.00	3285.23	41.0654
			H			
099	COMMUNITY SERVICE OFFICER	E131	A	3981.00	1837.38	22.9673
			B	4180.00	1929.23	24.1154
			C	4389.00	2025.69	25.3212
			D	4608.00	2126.77	26.5846
			E	4838.00	2232.92	27.9115
			F	5080.00	2344.62	29.3077
			G	5334.00	2461.85	30.7731
			H			
287	COMMUNITY SERVICES SUPER	M176	A	6107.00	2818.62	35.2327
			B	6412.00	2959.38	36.9923
			C	6733.00	3107.54	38.8442
			D	7070.00	3263.08	40.7885
			E	7424.00	3426.46	42.8308
			F	7795.00	3597.69	44.9712
			G	8185.00	3777.69	47.2212
			H			
228	CONSTR INSPECTOR	E161	A	5364.00	2475.69	30.9462
			B	5632.00	2599.38	32.4923
			C	5914.00	2729.54	34.1192
			D	6210.00	2866.15	35.8269
			E	6521.00	3009.69	37.6212
			F	6847.00	3160.15	39.5019
			G	7189.00	3318.00	41.4750
			H			
447	CUSTODIAL SUPERVISOR	M160	A	5208.00	2403.69	30.0462
			B	5468.00	2523.69	31.5462
			C	5741.00	2649.69	33.1212
			D	6028.00	2782.15	34.7769
			E	6329.00	2921.08	36.5135
			F	6645.00	3066.92	38.3365
			G	6977.00	3220.15	40.2519
			H			
445	CUSTODIAN	U108	A	3168.00	1462.15	18.2769
			B	3326.00	1535.08	19.1885
			C	3492.00	1611.69	20.1462
			D	3667.00	1692.46	21.1558
			E	3850.00	1776.92	22.2115
			F	4043.00	1866.00	23.3250
			G	4245.00	1959.23	24.4904
			H			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
062	DEPARTMENT SECRETARY	E143	A	4485.00	2070.00	25.8750
			B	4709.00	2173.38	27.1673
			C	4944.00	2281.85	28.5231
			D	5191.00	2395.85	29.9481
			E	5451.00	2515.85	31.4481
			F	5724.00	2641.85	33.0231
			G	6010.00	2773.85	34.6731
			H			
021	DEPUTY CITY CLERK	M157	A	5054.00	2332.62	29.1577
			B	5307.00	2449.38	30.6173
			C	5572.00	2571.69	32.1462
			D	5851.00	2700.46	33.7558
			E	6144.00	2835.69	35.4462
			F	6451.00	2977.38	37.2173
			G	6774.00	3126.46	39.0808
			H			
037	DEPUTY CITY MANAGER	C240	A	11547.00	5329.38	66.6173
			B	12124.00	5595.69	69.9462
			C	12730.00	5875.38	73.4423
			D	13367.00	6169.38	77.1173
			E	14035.00	6477.69	80.9712
			F	14737.00	6801.69	85.0212
			G	15474.00	7141.85	89.2731
			H			
046	DEPUTY DIRECTOR	M215	A	9003.00	4155.23	51.9404
			B	9453.00	4362.92	54.5365
			C	9926.00	4581.23	57.2654
			D	10422.00	4810.15	60.1269
			E	10943.00	5050.62	63.1327
			F	11490.00	5303.08	66.2885
			G	12065.00	5568.46	69.6058
			H			
049	DIVISION MANAGER	M204	A	8069.00	3724.15	46.5519
			B	8472.00	3910.15	48.8769
			C	8896.00	4105.85	51.3231
			D	9341.00	4311.23	53.8904
			E	9808.00	4526.77	56.5846
			F	10298.00	4752.92	59.4115
			G	10813.00	4990.62	62.3827
			H			
028	ECONOMIC DEV DIRECTOR	C245	A	12136.00	5601.23	70.0154
			B	12743.00	5881.38	73.5173
			C	13380.00	6175.38	77.1923
			D	14049.00	6484.15	81.0519
			E	14751.00	6808.15	85.1019
			F	15489.00	7148.77	89.3596
			G	16263.00	7506.00	93.8250
			H			



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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
259	ECONOMIC DEV SPEC	E150	A	4808.00	2219.08	27.7385
			B	5048.00	2329.85	29.1231
			C	5300.00	2446.15	30.5769
			D	5565.00	2568.46	32.1058
			E	5843.00	2696.77	33.7096
			F	6135.00	2831.54	35.3942
			G	6442.00	2973.23	37.1654
			H			
269	ECONOMIC DEVELOP MGR	M215	A	9003.00	4155.23	51.9404
			B	9453.00	4362.92	54.5365
			C	9926.00	4581.23	57.2654
			D	10422.00	4810.15	60.1269
			E	10943.00	5050.62	63.1327
			F	11490.00	5303.08	66.2885
			G	12065.00	5568.46	69.6058
			H			
273	ELIGIBILITY TECHNICIAN	E128	A	3863.00	1782.92	22.2865
			B	4056.00	1872.00	23.4000
			C	4259.00	1965.69	24.5712
			D	4472.00	2064.00	25.8000
			E	4696.00	2167.38	27.0923
			F	4931.00	2275.85	28.4481
			G	5178.00	2389.85	29.8731
			H			
042	EMPLOYEE DEVELOPMENT DIR	C240	A	11547.00	5329.38	66.6173
			B	12124.00	5595.69	69.9462
			C	12730.00	5875.38	73.4423
			D	13367.00	6169.38	77.1173
			E	14035.00	6477.69	80.9712
			F	14737.00	6801.69	85.0212
			G	15474.00	7141.85	89.2731
			H			
274	EMPLOYMENT SPECIALIST	E125	A	3750.00	1730.77	21.6346
			B	3938.00	1817.54	22.7192
			C	4135.00	1908.46	23.8558
			D	4342.00	2004.00	25.0500
			E	4559.00	2104.15	26.3019
			F	4787.00	2209.38	27.6173
			G	5026.00	2319.69	28.9962
			H			
211	ENGINEERING TECH	E149	A	4761.00	2197.38	27.4673
			B	4999.00	2307.23	28.8404
			C	5249.00	2422.62	30.2827
			D	5511.00	2543.54	31.7942
			E	5787.00	2670.92	33.3865
			F	6076.00	2804.31	35.0538
			G	6380.00	2944.62	36.8077
			H			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
236	ENVIRONMENTAL SERV SPEC	E143	A	4485.00	2070.00	25.8750
			B	4709.00	2173.38	27.1673
			C	4944.00	2281.85	28.5231
			D	5191.00	2395.85	29.9481
			E	5451.00	2515.85	31.4481
			F	5724.00	2641.85	33.0231
			G	6010.00	2773.85	34.6731
			H			
262	ENVIRONMENTAL SVS MGR	M204	A	8069.00	3724.15	46.5519
			B	8472.00	3910.15	48.8769
			C	8896.00	4105.85	51.3231
			D	9341.00	4311.23	53.8904
			E	9808.00	4526.77	56.5846
			F	10298.00	4752.92	59.4115
			G	10813.00	4990.62	62.3827
			H			
422	EQUIPMENT MECHANIC	U141	A	4399.00	2030.31	25.3788
			B	4619.00	2131.85	26.6481
			C	4850.00	2238.46	27.9808
			D	5093.00	2350.62	29.3827
			E	5348.00	2468.31	30.8538
			F	5615.00	2591.54	32.3942
			G	5896.00	2721.23	34.0154
			H			
421	EQUIPMENT SERV WORKER	U117	A	3465.00	1599.23	19.9904
			B	3638.00	1679.08	20.9885
			C	3820.00	1763.08	22.0385
			D	4011.00	1851.23	23.1404
			E	4212.00	1944.00	24.3000
			F	4423.00	2041.38	25.5173
			G	4644.00	2143.38	26.7923
			H			
041	FINANCE DIRECTOR	C245	A	12136.00	5601.23	70.0154
			B	12743.00	5881.38	73.5173
			C	13380.00	6175.38	77.1923
			D	14049.00	6484.15	81.0519
			E	14751.00	6808.15	85.1019
			F	15489.00	7148.77	89.3596
			G	16263.00	7506.00	93.8250
			H			
030	FINANCE MANAGER	M204	A	8069.00	3724.15	46.5519
			B	8472.00	3910.15	48.8769
			C	8896.00	4105.85	51.3231
			D	9341.00	4311.23	53.8904
			E	9808.00	4526.77	56.5846
			F	10298.00	4752.92	59.4115
			G	10813.00	4990.62	62.3827
			H			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
423	FIRE APPARATUS MECHANIC	U147	A	4670.00	2155.38	26.9423
			B	4904.00	2263.38	28.2923
			C	5149.00	2376.46	29.7058
			D	5406.00	2495.08	31.1885
			E	5676.00	2619.69	32.7462
			F	5960.00	2750.77	34.3846
			G	6258.00	2888.31	36.1038
			H			
584	FIRE BATTALION CHIEF	G224	A	9858.00	4549.85	56.8731
			B	10351.00	4777.38	59.7173
			C	10869.00	5016.46	62.7058
			D	11412.00	5267.08	65.8385
			E	11983.00	5530.62	69.1327
			F	12582.00	5807.08	72.5885
			G	13211.00	6097.38	76.2173
			H			
	FIRE 112 HR SHIFT		A			40.6236
			B			42.6552
			C			44.7898
			D			47.0275
			E			49.3805
			F			51.8489
			G			54.4409
			H			
583	FIRE CAPTAIN	F130	A	6570.00	3032.31	37.9038
			B	6899.00	3184.15	39.8019
			C	7244.00	3343.38	41.7923
			D	7606.00	3510.46	43.8808
			E	7986.00	3685.85	46.0731
			F	8385.00	3870.00	48.3750
			G	8804.00	4063.38	50.7923
			H	9244.00	4266.46	53.3308
			I			
	FIRE 112 HR SHIFT		A			27.0742
			B			28.4299
			C			29.8516
			D			31.3434
			E			32.9093
			F			34.5536
			G			36.2802
			H			38.0934
			I			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
586	FIRE CHIEF	C253	A	13143.00	6066.00	75.8250
			B	13800.00	6369.23	79.6154
			C	14490.00	6687.69	83.5962
			D	15215.00	7022.31	87.7788
			E	15976.00	7373.54	92.1692
			F	16775.00	7742.31	96.7788
			G	17614.00	8129.54	101.6192
			H			
	FIRE 112 HR SHIFT		A			54.1607
			B			56.8681
			C			59.7115
			D			62.6992
			E			65.8352
			F			69.1277
			G			72.5852
			H			
585	FIRE DIVISION CHIEF	G240	A	11434.00	5277.23	65.9654
			B	12006.00	5541.23	69.2654
			C	12606.00	5818.15	72.7269
			D	13236.00	6108.92	76.3615
			E	13898.00	6414.46	80.1808
			F	14593.00	6735.23	84.1904
			G	15323.00	7072.15	88.4019
			H			
	FIRE 112 HR SHIFT		A			47.1181
			B			49.4753
			C			51.9478
			D			54.5440
			E			57.2720
			F			60.1360
			G			63.1442
			H			
581	FIRE ENGINEER	F120	A	5547.00	2560.15	32.0019
			B	5824.00	2688.00	33.6000
			C	6115.00	2822.31	35.2788
			D	6421.00	2963.54	37.0442
			E	6742.00	3111.69	38.8962
			F	7079.00	3267.23	40.8404
			G	7433.00	3430.62	42.8827
			H	7805.00	3602.31	45.0288
			I			
	FIRE 112 HR SHIFT		A			22.8585
			B			24.0000
			C			25.1992
			D			26.4602
			E			27.7830
			F			29.1717
			G			30.6305
			H			32.1635
			I			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
245	FIRE PREVENTION TECH	E140	A	4353.00	2009.08	25.1135
			B	4571.00	2109.69	26.3712
			C	4800.00	2215.38	27.6923
			D	5040.00	2326.15	29.0769
			E	5292.00	2442.46	30.5308
			F	5557.00	2564.77	32.0596
			G	5835.00	2693.08	33.6635
			H			
256	FIRE PROTECTION SPEC	E161	A	5364.00	2475.69	30.9462
			B	5632.00	2599.38	32.4923
			C	5914.00	2729.54	34.1192
			D	6210.00	2866.15	35.8269
			E	6521.00	3009.69	37.6212
			F	6847.00	3160.15	39.5019
			G	7189.00	3318.00	41.4750
			H			
580	FIREFIGHTER	F100	A	4980.00	2298.46	28.7308
			B	5229.00	2413.38	30.1673
			C	5490.00	2533.85	31.6731
			D	5765.00	2660.77	33.2596
			E	6053.00	2793.69	34.9212
			F	6356.00	2933.54	36.6692
			G	6674.00	3080.31	38.5038
			H	7008.00	3234.46	40.4308
			I			
	FIRE 112 HR SHIFT		A			20.5220
			B			21.5481
			C			22.6236
			D			23.7569
			E			24.9437
			F			26.1923
			G			27.5027
			H			28.8791
			I			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
590	FIREFIGHTER	F100	A	4980.00	2298.46	28.7308
			B	5229.00	2413.38	30.1673
			C	5490.00	2533.85	31.6731
			D	5765.00	2660.77	33.2596
			E	6053.00	2793.69	34.9212
			F	6356.00	2933.54	36.6692
			G	6674.00	3080.31	38.5038
			H	7008.00	3234.46	40.4308
			I			
	FIRE 112 HR SHIFT		A			20.5220
			B			21.5481
			C			22.6236
			D			23.7569
			E			24.9437
			F			26.1923
			G			27.5027
			H			28.8791
			I			
591	FIREFIGHTER	F100	A	4980.00	2298.46	28.7308
			B	5229.00	2413.38	30.1673
			C	5490.00	2533.85	31.6731
			D	5765.00	2660.77	33.2596
			E	6053.00	2793.69	34.9212
			F	6356.00	2933.54	36.6692
			G	6674.00	3080.31	38.5038
			H	7008.00	3234.46	40.4308
			I			
	FIRE 112 HR SHIFT		A			20.5220
			B			21.5481
			C			22.6236
			D			23.7569
			E			24.9437
			F			26.1923
			G			27.5027
			H			28.8791
			I			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
592	FIREFIGHTER	F100	A	4980.00	2298.46	28.7308
			B	5229.00	2413.38	30.1673
			C	5490.00	2533.85	31.6731
			D	5765.00	2660.77	33.2596
			E	6053.00	2793.69	34.9212
			F	6356.00	2933.54	36.6692
			G	6674.00	3080.31	38.5038
			H	7008.00	3234.46	40.4308
			I			
	FIRE 112 HR SHIFT		A			20.5220
			B			21.5481
			C			22.6236
			D			23.7569
			E			24.9437
			F			26.1923
			G			27.5027
			H			28.8791
			I			
107	GIS COORDINATOR	E174	A	6106.00	2818.15	35.2269
			B	6411.00	2958.92	36.9865
			C	6732.00	3107.08	38.8385
			D	7069.00	3262.62	40.7827
			E	7422.00	3425.54	42.8192
			F	7793.00	3596.77	44.9596
			G	8183.00	3776.77	47.2096
			H			
088	GRAPHICS ASSISTANT	E115	A	3395.00	1566.92	19.5865
			B	3565.00	1645.38	20.5673
			C	3743.00	1727.54	21.5942
			D	3930.00	1813.85	22.6731
			E	4127.00	1904.77	23.8096
			F	4333.00	1999.85	24.9981
			G	4550.00	2100.00	26.2500
			H			
089	GRAPHICS DESIGNER	E135	A	4143.00	1912.15	23.9019
			B	4350.00	2007.69	25.0962
			C	4568.00	2108.31	26.3538
			D	4796.00	2213.54	27.6692
			E	5036.00	2324.31	29.0538
			F	5288.00	2440.62	30.5077
			G	5552.00	2562.46	32.0308
			H			
414	HEAVY EQUIP OPERATOR	U141	A	4399.00	2030.31	25.3788
			B	4619.00	2131.85	26.6481
			C	4850.00	2238.46	27.9808
			D	5093.00	2350.62	29.3827
			E	5348.00	2468.31	30.8538
			F	5615.00	2591.54	32.3942
			G	5896.00	2721.23	34.0154
			H			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
234	HOUSING ASSISTANT	E135	A	4143.00	1912.15	23.9019
			B	4350.00	2007.69	25.0962
			C	4568.00	2108.31	26.3538
			D	4796.00	2213.54	27.6692
			E	5036.00	2324.31	29.0538
			F	5288.00	2440.62	30.5077
			G	5552.00	2562.46	32.0308
			H			
232	HOUSING SPEC	E140	A	4353.00	2009.08	25.1135
			B	4571.00	2109.69	26.3712
			C	4800.00	2215.38	27.6923
			D	5040.00	2326.15	29.0769
			E	5292.00	2442.46	30.5308
			F	5557.00	2564.77	32.0596
			G	5835.00	2693.08	33.6635
			H			
261	HOUSING SUPERVISOR	M171	A	5811.00	2682.00	33.5250
			B	6102.00	2816.31	35.2038
			C	6407.00	2957.08	36.9635
			D	6727.00	3104.77	38.8096
			E	7063.00	3259.85	40.7481
			F	7416.00	3422.77	42.7846
			G	7787.00	3594.00	44.9250
			H			
026	HUMAN RESOURCES DIR	C240	A	11547.00	5329.38	66.6173
			B	12124.00	5595.69	69.9462
			C	12730.00	5875.38	73.4423
			D	13367.00	6169.38	77.1173
			E	14035.00	6477.69	80.9712
			F	14737.00	6801.69	85.0212
			G	15474.00	7141.85	89.2731
			H			
131	HUMAN RESOURCES MANAGER	M199	A	7679.00	3544.15	44.3019
			B	8063.00	3721.38	46.5173
			C	8466.00	3907.38	48.8423
			D	8889.00	4102.62	51.2827
			E	9333.00	4307.54	53.8442
			F	9800.00	4523.08	56.5385
			G	10290.00	4749.23	59.3654
			H			
105	INFO SYSTEMS MANAGER	M220	A	9463.00	4367.54	54.5942
			B	9936.00	4585.85	57.3231
			C	10433.00	4815.23	60.1904
			D	10955.00	5056.15	63.2019
			E	11503.00	5309.08	66.3635
			F	12078.00	5574.46	69.6808
			G	12682.00	5853.23	73.1654
			H			



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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
044	INFO TECHNOLOGY DIR	C240	A	11547.00	5329.38	66.6173
			B	12124.00	5595.69	69.9462
			C	12730.00	5875.38	73.4423
			D	13367.00	6169.38	77.1173
			E	14035.00	6477.69	80.9712
			F	14737.00	6801.69	85.0212
			G	15474.00	7141.85	89.2731
			H			
108	INFORMATION TECHNOLOGY PROGRE	E179	A	6417.00	2961.69	37.0212
			B	6738.00	3109.85	38.8731
			C	7075.00	3265.38	40.8173
			D	7429.00	3428.77	42.8596
			E	7800.00	3600.00	45.0000
			F	8190.00	3780.00	47.2500
			G	8600.00	3969.23	49.6154
			H			
103	INFORMATION TECHNOLOGY TECH	E149	A	4761.00	2197.38	27.4673
			B	4999.00	2307.23	28.8404
			C	5249.00	2422.62	30.2827
			D	5511.00	2543.54	31.7942
			E	5787.00	2670.92	33.3865
			F	6076.00	2804.31	35.0538
			G	6380.00	2944.62	36.8077
			H			
081	INSURANCE PROGRAM COORD	E150	A	4808.00	2219.08	27.7385
			B	5048.00	2329.85	29.1231
			C	5300.00	2446.15	30.5769
			D	5565.00	2568.46	32.1058
			E	5843.00	2696.77	33.7096
			F	6135.00	2831.54	35.3942
			G	6442.00	2973.23	37.1654
			H			
061	JAILER/FLEET SUPERVISOR	M171	A	5811.00	2682.00	33.5250
			B	6102.00	2816.31	35.2038
			C	6407.00	2957.08	36.9635
			D	6727.00	3104.77	38.8096
			E	7063.00	3259.85	40.7481
			F	7416.00	3422.77	42.7846
			G	7787.00	3594.00	44.9250
			H			
416	MAINT REPAIR HELPER	U122	A	3641.00	1680.46	21.0058
			B	3823.00	1764.46	22.0558
			C	4014.00	1852.62	23.1577
			D	4215.00	1945.38	24.3173
			E	4426.00	2042.77	25.5346
			F	4647.00	2144.77	26.8096
			G	4879.00	2251.85	28.1481
			H			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
415	MAINT REPAIR WORKER	U138	A	4269.00	1970.31	24.6288
			B	4482.00	2068.62	25.8577
			C	4706.00	2172.00	27.1500
			D	4941.00	2280.46	28.5058
			E	5188.00	2394.46	29.9308
			F	5447.00	2514.00	31.4250
			G	5719.00	2639.54	32.9942
			H			
109	NETWORK ADMINISTRATOR	E179	A	6417.00	2961.69	37.0212
			B	6738.00	3109.85	38.8731
			C	7075.00	3265.38	40.8173
			D	7429.00	3428.77	42.8596
			E	7800.00	3600.00	45.0000
			F	8190.00	3780.00	47.2500
			G	8600.00	3969.23	49.6154
			H			
066	OFFICE ASSISTANT	E113	A	3327.00	1535.54	19.1942
			B	3493.00	1612.15	20.1519
			C	3668.00	1692.92	21.1615
			D	3851.00	1777.38	22.2173
			E	4044.00	1866.46	23.3308
			F	4246.00	1959.69	24.4962
			G	4458.00	2057.54	25.7192
			H			
406	PARK MAINTENANCE WKR	U127	A	3827.00	1766.31	22.0788
			B	4018.00	1854.46	23.1808
			C	4219.00	1947.23	24.3404
			D	4430.00	2044.62	25.5577
			E	4652.00	2147.08	26.8385
			F	4885.00	2254.62	28.1827
			G	5129.00	2367.23	29.5904
			H			
494	PARKING CONTROL SPECIALIST	U111.8	A	3003.00	1386.00	17.3250
			B	3190.00	1472.31	18.4038
			C	3377.00	1558.62	19.4827
			D	3565.00	1645.38	20.5673
			E	3753.00	1732.15	21.6519
			F	3753.00	1732.15	21.6519
			G	3753.00	1732.15	21.6519
			H			
213	PERMIT CENTER SUPERVISOR	M174	A	5987.00	2763.23	34.5404
			B	6286.00	2901.23	36.2654
			C	6600.00	3046.15	38.0769
			D	6930.00	3198.46	39.9808
			E	7277.00	3358.62	41.9827
			F	7641.00	3526.62	44.0827
			G	8023.00	3702.92	46.2865
			H			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
210	PERMIT TECHNICIAN	E140	A	4353.00	2009.08	25.1135
			B	4571.00	2109.69	26.3712
			C	4800.00	2215.38	27.6923
			D	5040.00	2326.15	29.0769
			E	5292.00	2442.46	30.5308
			F	5557.00	2564.77	32.0596
			G	5835.00	2693.08	33.6635
			H			
127	PERSONNEL ANALYST	M150	A	4716.00	2176.62	27.2077
			B	4952.00	2285.54	28.5692
			C	5200.00	2400.00	30.0000
			D	5460.00	2520.00	31.5000
			E	5733.00	2646.00	33.0750
			F	6020.00	2778.46	34.7308
			G	6321.00	2917.38	36.4673
			H			
201	PLAN CHECK ENGINEER	E190	A	7159.00	3304.15	41.3019
			B	7517.00	3469.38	43.3673
			C	7893.00	3642.92	45.5365
			D	8288.00	3825.23	47.8154
			E	8702.00	4016.31	50.2038
			F	9137.00	4217.08	52.7135
			G	9594.00	4428.00	55.3500
			H			
267	PLANNER	E174	A	6106.00	2818.15	35.2269
			B	6411.00	2958.92	36.9865
			C	6732.00	3107.08	38.8385
			D	7069.00	3262.62	40.7827
			E	7422.00	3425.54	42.8192
			F	7793.00	3596.77	44.9596
			G	8183.00	3776.77	47.2096
			H			
263	PLANNING SERVICES MGR	M215	A	9003.00	4155.23	51.9404
			B	9453.00	4362.92	54.5365
			C	9926.00	4581.23	57.2654
			D	10422.00	4810.15	60.1269
			E	10943.00	5050.62	63.1327
			F	11490.00	5303.08	66.2885
			G	12065.00	5568.46	69.6058
			H			
270	PLANS EXAMINER	E160	A	5311.00	2451.23	30.6404
			B	5577.00	2574.00	32.1750
			C	5856.00	2702.77	33.7846
			D	6149.00	2838.00	35.4750
			E	6456.00	2979.69	37.2462
			F	6779.00	3128.77	39.1096
			G	7118.00	3285.23	41.0654
			H			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
304	POLICE CAPTAIN	Q232.1	A	11650.00	5376.92	67.2115
			B	12233.00	5646.00	70.5750
			C	12845.00	5928.46	74.1058
			D	13487.00	6224.77	77.8096
			E	14161.00	6535.85	81.6981
			F	14869.00	6862.62	85.7827
			G	15612.00	7205.54	90.0692
			H			
305	POLICE CHIEF	C258	A	13812.00	6374.77	79.6846
			B	14503.00	6693.69	83.6712
			C	15228.00	7028.31	87.8538
			D	15989.00	7379.54	92.2442
			E	16788.00	7748.31	96.8538
			F	17627.00	8135.54	101.6942
			G	18508.00	8542.15	106.7769
			H			
076	POLICE COMMUNICATIONS MGR	M186	A	6746.00	3113.54	38.9192
			B	7083.00	3269.08	40.8635
			C	7437.00	3432.46	42.9058
			D	7809.00	3604.15	45.0519
			E	8199.00	3784.15	47.3019
			F	8609.00	3973.38	49.6673
			G	9039.00	4171.85	52.1481
			H			
303	POLICE LIEUTENANT	Q220.1	A	10137.00	4678.62	58.4827
			B	10644.00	4912.62	61.4077
			C	11176.00	5158.15	64.4769
			D	11735.00	5416.15	67.7019
			E	12322.00	5687.08	71.0885
			F	12938.00	5971.38	74.6423
			G	13585.00	6270.00	78.3750
			H			
300	POLICE OFFICER	P174	A	6106.00	2818.15	35.2269
			B	6411.00	2958.92	36.9865
			C	6732.00	3107.08	38.8385
			D	7069.00	3262.62	40.7827
			E	7422.00	3425.54	42.8192
			F	7793.00	3596.77	44.9596
			G	8183.00	3776.77	47.2096
306	POLICE OFFICER/CORPORAL	P174	A	6106.00	2818.15	35.2269
			B	6411.00	2958.92	36.9865
			C	6732.00	3107.08	38.8385
			D	7069.00	3262.62	40.7827
			E	7422.00	3425.54	42.8192
			F	7793.00	3596.77	44.9596
			G	8183.00	3776.77	47.2096

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
301	POLICE OFFICER/MASTER OFFICE	P174	A	6106.00	2818.15	35.2269
			B	6411.00	2958.92	36.9865
			C	6732.00	3107.08	38.8385
			D	7069.00	3262.62	40.7827
			E	7422.00	3425.54	42.8192
			F	7793.00	3596.77	44.9596
			G	8183.00	3776.77	47.2096
075	POLICE RECORDS MGR	M186	A	6746.00	3113.54	38.9192
			B	7083.00	3269.08	40.8635
			C	7437.00	3432.46	42.9058
			D	7809.00	3604.15	45.0519
			E	8199.00	3784.15	47.3019
			F	8609.00	3973.38	49.6673
			G	9039.00	4171.85	52.1481
			H			
074	POLICE RECORDS SHIFT SUPER	E140	A	4353.00	2009.08	25.1135
			B	4571.00	2109.69	26.3712
			C	4800.00	2215.38	27.6923
			D	5040.00	2326.15	29.0769
			E	5292.00	2442.46	30.5308
			F	5557.00	2564.77	32.0596
			G	5835.00	2693.08	33.6635
			H			
057	POLICE RECORDS SPEC	E125	A	3750.00	1730.77	21.6346
			B	3938.00	1817.54	22.7192
			C	4135.00	1908.46	23.8558
			D	4342.00	2004.00	25.0500
			E	4559.00	2104.15	26.3019
			F	4787.00	2209.38	27.6173
			G	5026.00	2319.69	28.9962
			H			
302	POLICE SERGEANT	P199.2	A	7846.00	3621.23	45.2654
			B	8238.00	3802.15	47.5269
			C	8650.00	3992.31	49.9038
			D	9083.00	4192.15	52.4019
			E	9537.00	4401.69	55.0212
			F	10014.00	4621.85	57.7731
			G	10515.00	4853.08	60.6635
056	POLICE SERVICES SUPERVISOR	M166	A	5528.00	2551.38	31.8923
			B	5804.00	2678.77	33.4846
			C	6094.00	2812.62	35.1577
			D	6399.00	2953.38	36.9173
			E	6719.00	3101.08	38.7635
			F	7055.00	3256.15	40.7019
			G	7408.00	3419.08	42.7385
			H			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
052	PRIN ACCOUNT SPEC	E132	A	4020.00	1855.38	23.1923
			B	4221.00	1948.15	24.3519
			C	4432.00	2045.54	25.5692
			D	4654.00	2148.00	26.8500
			E	4887.00	2255.54	28.1942
			F	5131.00	2368.15	29.6019
			G	5388.00	2486.77	31.0846
			H			
036	PRIN ADMIN ANALYST	M186	A	6746.00	3113.54	38.9192
			B	7083.00	3269.08	40.8635
			C	7437.00	3432.46	42.9058
			D	7809.00	3604.15	45.0519
			E	8199.00	3784.15	47.3019
			F	8609.00	3973.38	49.6673
			G	9039.00	4171.85	52.1481
			H			
208	PRIN ENGINEERING TECH	E169	A	5809.00	2681.08	33.5135
			B	6099.00	2814.92	35.1865
			C	6404.00	2955.69	36.9462
			D	6724.00	3103.38	38.7923
			E	7060.00	3258.46	40.7308
			F	7413.00	3421.38	42.7673
			G	7784.00	3592.62	44.9077
			H			
064	PRIN OFFICE ASST	E133	A	4062.00	1874.77	23.4346
			B	4265.00	1968.46	24.6058
			C	4478.00	2066.77	25.8346
			D	4702.00	2170.15	27.1269
			E	4937.00	2278.62	28.4827
			F	5184.00	2392.62	29.9077
			G	5443.00	2512.15	31.4019
			H			
129	PRIN PERSONNEL ANALYST	M186	A	6746.00	3113.54	38.9192
			B	7083.00	3269.08	40.8635
			C	7437.00	3432.46	42.9058
			D	7809.00	3604.15	45.0519
			E	8199.00	3784.15	47.3019
			F	8609.00	3973.38	49.6673
			G	9039.00	4171.85	52.1481
			H			
059	PRINCIPAL ACCOUNTANT	M186	A	6746.00	3113.54	38.9192
			B	7083.00	3269.08	40.8635
			C	7437.00	3432.46	42.9058
			D	7809.00	3604.15	45.0519
			E	8199.00	3784.15	47.3019
			F	8609.00	3973.38	49.6673
			G	9039.00	4171.85	52.1481
			H			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
023	PROGRAM SPECIALIST	E150	A	4808.00	2219.08	27.7385
			B	5048.00	2329.85	29.1231
			C	5300.00	2446.15	30.5769
			D	5565.00	2568.46	32.1058
			E	5843.00	2696.77	33.7096
			F	6135.00	2831.54	35.3942
			G	6442.00	2973.23	37.1654
			H			
209	PROJECT ENGINEER	M204	A	8069.00	3724.15	46.5519
			B	8472.00	3910.15	48.8769
			C	8896.00	4105.85	51.3231
			D	9341.00	4311.23	53.8904
			E	9808.00	4526.77	56.5846
			F	10298.00	4752.92	59.4115
			G	10813.00	4990.62	62.3827
			H			
265	PROJECT PLANNER	M186	A	6746.00	3113.54	38.9192
			B	7083.00	3269.08	40.8635
			C	7437.00	3432.46	42.9058
			D	7809.00	3604.15	45.0519
			E	8199.00	3784.15	47.3019
			F	8609.00	3973.38	49.6673
			G	9039.00	4171.85	52.1481
			H			
570	PUB SAFETY ADMN OFFICER	C255	A	13407.00	6187.85	77.3481
			B	14077.00	6497.08	81.2135
			C	14781.00	6822.00	85.2750
			D	15520.00	7163.08	89.5385
			E	16296.00	7521.23	94.0154
			F	17111.00	7897.38	98.7173
			G	17967.00	8292.46	103.6558
			H			
	FIRE 112 HR SHIFT		A			55.2486
			B			58.0096
			C			60.9107
			D			63.9560
			E			67.1538
			F			70.5124
			G			74.0398
			H			
083	PUB SAFETY DISPATCHR	E150	A	4808.00	2219.08	27.7385
			B	5048.00	2329.85	29.1231
			C	5300.00	2446.15	30.5769
			D	5565.00	2568.46	32.1058
			E	5843.00	2696.77	33.7096
			F	6135.00	2831.54	35.3942
			G	6442.00	2973.23	37.1654
			H			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
126	PUBLIC SAFETY FISCAL ANALYST	M171	A	5811.00	2682.00	33.5250
			B	6102.00	2816.31	35.2038
			C	6407.00	2957.08	36.9635
			D	6727.00	3104.77	38.8096
			E	7063.00	3259.85	40.7481
			F	7416.00	3422.77	42.7846
			G	7787.00	3594.00	44.9250
			H			
033	PUBLIC WORKS DIRECTOR	C245	A	12136.00	5601.23	70.0154
			B	12743.00	5881.38	73.5173
			C	13380.00	6175.38	77.1923
			D	14049.00	6484.15	81.0519
			E	14751.00	6808.15	85.1019
			F	15489.00	7148.77	89.3596
			G	16263.00	7506.00	93.8250
			H			
420	PUBLIC WORKS FOREMAN	M155	A	4955.00	2286.92	28.5865
			B	5203.00	2401.38	30.0173
			C	5463.00	2521.38	31.5173
			D	5736.00	2647.38	33.0923
			E	6023.00	2779.85	34.7481
			F	6324.00	2918.77	36.4846
			G	6640.00	3064.62	38.3077
			H			
204	PUBLIC WORKS SUPV	M176	A	6107.00	2818.62	35.2327
			B	6412.00	2959.38	36.9923
			C	6733.00	3107.54	38.8442
			D	7070.00	3263.08	40.7885
			E	7424.00	3426.46	42.8308
			F	7795.00	3597.69	44.9712
			G	8185.00	3777.69	47.2212
			H			
244	PUBLIC WORKS TECHNICIAN	E145	A	4576.00	2112.00	26.4000
			B	4805.00	2217.69	27.7212
			C	5045.00	2328.46	29.1058
			D	5297.00	2444.77	30.5596
			E	5562.00	2567.08	32.0885
			F	5840.00	2695.38	33.6923
			G	6132.00	2830.15	35.3769
			H			
402	PUBLIC WORKS TRAINEE	U089	A	2364.00	1091.08	13.6385
			B	2439.00	1125.69	14.0712
			C	2495.00	1151.54	14.3942
			D	2551.00	1177.38	14.7173
			E	2629.00	1213.38	15.1673
			F	2685.00	1239.23	15.4904
			G	2814.00	1298.77	16.2346
			H			



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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
070	PURCHASING AGENT	M191	A	7091.00	3272.77	40.9096
			B	7446.00	3436.62	42.9577
			C	7818.00	3608.31	45.1038
			D	8209.00	3788.77	47.3596
			E	8619.00	3978.00	49.7250
			F	9050.00	4176.92	52.2115
			G	9503.00	4386.00	54.8250
			H			
222	REAL PROP AGENT	E162	A	5418.00	2500.62	31.2577
			B	5689.00	2625.69	32.8212
			C	5973.00	2756.77	34.4596
			D	6272.00	2894.77	36.1846
			E	6586.00	3039.69	37.9962
			F	6915.00	3191.54	39.8942
			G	7261.00	3351.23	41.8904
			H			
221	REAL PROPERTY MGR	M199	A	7679.00	3544.15	44.3019
			B	8063.00	3721.38	46.5173
			C	8466.00	3907.38	48.8423
			D	8889.00	4102.62	51.2827
			E	9333.00	4307.54	53.8442
			F	9800.00	4523.08	56.5385
			G	10290.00	4749.23	59.3654
			H			
092	REPR EQUIP OPER	E109	A	3197.00	1475.54	18.4442
			B	3357.00	1549.38	19.3673
			C	3525.00	1626.92	20.3365
			D	3701.00	1708.15	21.3519
			E	3886.00	1793.54	22.4192
			F	4080.00	1883.08	23.5385
			G	4284.00	1977.23	24.7154
			H			
032	REVENUE MANAGER	M194	A	7306.00	3372.00	42.1500
			B	7671.00	3540.46	44.2558
			C	8055.00	3717.69	46.4712
			D	8458.00	3903.69	48.7962
			E	8881.00	4098.92	51.2365
			F	9325.00	4303.85	53.7981
			G	9791.00	4518.92	56.4865
			H			
132	RISK MGMT SUPERVISOR	M171	A	5811.00	2682.00	33.5250
			B	6102.00	2816.31	35.2038
			C	6407.00	2957.08	36.9635
			D	6727.00	3104.77	38.8096
			E	7063.00	3259.85	40.7481
			F	7416.00	3422.77	42.7846
			G	7787.00	3594.00	44.9250
			H			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
460	SEWER MAINT WORKER	U132	A	4022.00	1856.31	23.2038
			B	4223.00	1949.08	24.3635
			C	4434.00	2046.46	25.5808
			D	4656.00	2148.92	26.8615
			E	4889.00	2256.46	28.2058
			F	5133.00	2369.08	29.6135
			G	5390.00	2487.69	31.0962
			H			
424	SMALL ENGINES MECHANIC	U127	A	3827.00	1766.31	22.0788
			B	4018.00	1854.46	23.1808
			C	4219.00	1947.23	24.3404
			D	4430.00	2044.62	25.5577
			E	4652.00	2147.08	26.8385
			F	4885.00	2254.62	28.1827
			G	5129.00	2367.23	29.5904
			H			
312	SPECIAL OFFICER	E157	A	5155.00	2379.23	29.7404
			B	5413.00	2498.31	31.2288
			C	5684.00	2623.38	32.7923
			D	5968.00	2754.46	34.4308
			E	6266.00	2892.00	36.1500
			F	6579.00	3036.46	37.9558
			G	6908.00	3188.31	39.8538
			H			
051	SR ACCOUNT SPECIALIST	E122	A	3639.00	1679.54	20.9942
			B	3821.00	1763.54	22.0442
			C	4012.00	1851.69	23.1462
			D	4213.00	1944.46	24.3058
			E	4424.00	2041.85	25.5231
			F	4645.00	2143.85	26.7981
			G	4877.00	2250.92	28.1365
			H			
055	SR ACCOUNTANT	E171	A	5927.00	2735.54	34.1942
			B	6223.00	2872.15	35.9019
			C	6534.00	3015.69	37.6962
			D	6861.00	3166.62	39.5827
			E	7204.00	3324.92	41.5615
			F	7564.00	3491.08	43.6385
			G	7942.00	3665.54	45.8192
			H			
014	SR ADMIN AIDE	E150	A	4808.00	2219.08	27.7385
			B	5048.00	2329.85	29.1231
			C	5300.00	2446.15	30.5769
			D	5565.00	2568.46	32.1058
			E	5843.00	2696.77	33.7096
			F	6135.00	2831.54	35.3942
			G	6442.00	2973.23	37.1654
			H			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
017	SR ADMIN ANALYST	M166	A	5528.00	2551.38	31.8923
			B	5804.00	2678.77	33.4846
			C	6094.00	2812.62	35.1577
			D	6399.00	2953.38	36.9173
			E	6719.00	3101.08	38.7635
			F	7055.00	3256.15	40.7019
			G	7408.00	3419.08	42.7385
			H			
203	SR ANIMAL CONTROL OFFICER	E164	A	5527.00	2550.92	31.8865
			B	5803.00	2678.31	33.4788
			C	6093.00	2812.15	35.1519
			D	6398.00	2952.92	36.9115
			E	6718.00	3100.62	38.7577
			F	7054.00	3255.69	40.6962
			G	7407.00	3418.62	42.7327
			H			
231	SR BLDG INSPECTOR	E170	A	5867.00	2707.85	33.8481
			B	6160.00	2843.08	35.5385
			C	6468.00	2985.23	37.3154
			D	6791.00	3134.31	39.1788
			E	7131.00	3291.23	41.1404
			F	7488.00	3456.00	43.2000
			G	7862.00	3628.62	45.3577
			H			
216	SR CIVIL ENGINEER	M211	A	8652.00	3993.23	49.9154
			B	9085.00	4193.08	52.4135
			C	9539.00	4402.62	55.0327
			D	10016.00	4622.77	57.7846
			E	10517.00	4854.00	60.6750
			F	11043.00	5096.77	63.7096
			G	11595.00	5351.54	66.8942
			H			
242	SR CODE ENFORCEMENT OFFICER	E160	A	5311.00	2451.23	30.6404
			B	5577.00	2574.00	32.1750
			C	5856.00	2702.77	33.7846
			D	6149.00	2838.00	35.4750
			E	6456.00	2979.69	37.2462
			F	6779.00	3128.77	39.1096
			G	7118.00	3285.23	41.0654
			H			
098	SR COMMUNITY SERVICE OFFICER	E136	A	4182.00	1930.15	24.1269
			B	4391.00	2026.62	25.3327
			C	4611.00	2128.15	26.6019
			D	4842.00	2234.77	27.9346
			E	5084.00	2346.46	29.3308
			F	5338.00	2463.69	30.7962
			G	5605.00	2586.92	32.3365
			H			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
091	SR ECONOMIC DEV SPEC	E162	A	5418.00	2500.62	31.2577
			B	5689.00	2625.69	32.8212
			C	5973.00	2756.77	34.4596
			D	6272.00	2894.77	36.1846
			E	6586.00	3039.69	37.9962
			F	6915.00	3191.54	39.8942
			G	7261.00	3351.23	41.8904
			H			
226	SR EMPLOYMENT SPECIALIST	E135	A	4143.00	1912.15	23.9019
			B	4350.00	2007.69	25.0962
			C	4568.00	2108.31	26.3538
			D	4796.00	2213.54	27.6692
			E	5036.00	2324.31	29.0538
			F	5288.00	2440.62	30.5077
			G	5552.00	2562.46	32.0308
			H			
212	SR ENGINEERING TECH	E159	A	5258.00	2426.77	30.3346
			B	5521.00	2548.15	31.8519
			C	5797.00	2675.54	33.4442
			D	6087.00	2809.38	35.1173
			E	6391.00	2949.69	36.8712
			F	6711.00	3097.38	38.7173
			G	7047.00	3252.46	40.6558
			H			
246	SR ENVR SERV SPEC	E153	A	4954.00	2286.46	28.5808
			B	5202.00	2400.92	30.0115
			C	5462.00	2520.92	31.5115
			D	5735.00	2646.92	33.0865
			E	6022.00	2779.38	34.7423
			F	6323.00	2918.31	36.4788
			G	6639.00	3064.15	38.3019
			H			
260	SR FIRE PROTECTION SPEC	E171	A	5927.00	2735.54	34.1942
			B	6223.00	2872.15	35.9019
			C	6534.00	3015.69	37.6962
			D	6861.00	3166.62	39.5827
			E	7204.00	3324.92	41.5615
			F	7564.00	3491.08	43.6385
			G	7942.00	3665.54	45.8192
			H			
294	SR HOUSING SPECIALIST	E150	A	4808.00	2219.08	27.7385
			B	5048.00	2329.85	29.1231
			C	5300.00	2446.15	30.5769
			D	5565.00	2568.46	32.1058
			E	5843.00	2696.77	33.7096
			F	6135.00	2831.54	35.3942
			G	6442.00	2973.23	37.1654
			H			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
104	SR INFO TECH ANALYST	M194	A	7306.00	3372.00	42.1500
			B	7671.00	3540.46	44.2558
			C	8055.00	3717.69	46.4712
			D	8458.00	3903.69	48.7962
			E	8881.00	4098.92	51.2365
			F	9325.00	4303.85	53.7981
			G	9791.00	4518.92	56.4865
			H			
106	SR INFORMATION TECHNOLOGY TEE159		A	5258.00	2426.77	30.3346
			B	5521.00	2548.15	31.8519
			C	5797.00	2675.54	33.4442
			D	6087.00	2809.38	35.1173
			E	6391.00	2949.69	36.8712
			F	6711.00	3097.38	38.7173
			G	7047.00	3252.46	40.6558
			H			
067	SR OFFICE ASSISTANT	E123	A	3676.00	1696.62	21.2077
			B	3860.00	1781.54	22.2692
			C	4053.00	1870.62	23.3827
			D	4256.00	1964.31	24.5538
			E	4469.00	2062.62	25.7827
			F	4692.00	2165.54	27.0692
			G	4927.00	2274.00	28.4250
			H			
128	SR PERSONNEL ANALYST	M166	A	5528.00	2551.38	31.8923
			B	5804.00	2678.77	33.4846
			C	6094.00	2812.62	35.1577
			D	6399.00	2953.38	36.9173
			E	6719.00	3101.08	38.7635
			F	7055.00	3256.15	40.7019
			G	7408.00	3419.08	42.7385
			H			
407	SR PK MAINTENANCE WKR	U137	A	4227.00	1950.92	24.3865
			B	4438.00	2048.31	25.6038
			C	4660.00	2150.77	26.8846
			D	4893.00	2258.31	28.2288
			E	5138.00	2371.38	29.6423
			F	5395.00	2490.00	31.1250
			G	5665.00	2614.62	32.6827
			H			
266	SR PLANNER	M194	A	7306.00	3372.00	42.1500
			B	7671.00	3540.46	44.2558
			C	8055.00	3717.69	46.4712
			D	8458.00	3903.69	48.7962
			E	8881.00	4098.92	51.2365
			F	9325.00	4303.85	53.7981
			G	9791.00	4518.92	56.4865
			H			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
025	SR PROGRAM SPECIALIST	M166	A	5528.00	2551.38	31.8923
			B	5804.00	2678.77	33.4846
			C	6094.00	2812.62	35.1577
			D	6399.00	2953.38	36.9173
			E	6719.00	3101.08	38.7635
			F	7055.00	3256.15	40.7019
			G	7408.00	3419.08	42.7385
			H			
264	SR PROJECT PLANNER	M194	A	7306.00	3372.00	42.1500
			B	7671.00	3540.46	44.2558
			C	8055.00	3717.69	46.4712
			D	8458.00	3903.69	48.7962
			E	8881.00	4098.92	51.2365
			F	9325.00	4303.85	53.7981
			G	9791.00	4518.92	56.4865
			H			
223	SR REAL PROPERTY AGENT	M173	A	5929.00	2736.46	34.2058
			B	6225.00	2873.08	35.9135
			C	6536.00	3016.62	37.7077
			D	6863.00	3167.54	39.5942
			E	7206.00	3325.85	41.5731
			F	7566.00	3492.00	43.6500
			G	7944.00	3666.46	45.8308
			H			
253	SR RECREATION SPECIALIST	E101	A	2954.00	1363.38	17.0423
			B	3102.00	1431.69	17.8962
			C	3257.00	1503.23	18.7904
			D	3420.00	1578.46	19.7308
			E	3591.00	1657.38	20.7173
			F	3771.00	1740.46	21.7558
			G	3960.00	1827.69	22.8462
			H			
090	SR REPRP EQUIP OPR	E135	A	4143.00	1912.15	23.9019
			B	4350.00	2007.69	25.0962
			C	4568.00	2108.31	26.3538
			D	4796.00	2213.54	27.6692
			E	5036.00	2324.31	29.0538
			F	5288.00	2440.62	30.5077
			G	5552.00	2562.46	32.0308
			H			
462	SR SEWER MAINT WRKR	U137	A	4227.00	1950.92	24.3865
			B	4438.00	2048.31	25.6038
			C	4660.00	2150.77	26.8846
			D	4893.00	2258.31	28.2288
			E	5138.00	2371.38	29.6423
			F	5395.00	2490.00	31.1250
			G	5665.00	2614.62	32.6827
			H			

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
419	SR ST MAINT WORKER	U137	A	4227.00	1950.92	24.3865
			B	4438.00	2048.31	25.6038
			C	4660.00	2150.77	26.8846
			D	4893.00	2258.31	28.2288
			E	5138.00	2371.38	29.6423
			F	5395.00	2490.00	31.1250
			G	5665.00	2614.62	32.6827
			H			
412	SR TRAFFIC SIGNAL ELECTR	U163	A	5474.00	2526.46	31.5808
			B	5748.00	2652.92	33.1615
			C	6035.00	2785.38	34.8173
			D	6337.00	2924.77	36.5596
			E	6654.00	3071.08	38.3885
			F	6987.00	3224.77	40.3096
			G	7336.00	3385.85	42.3231
			H			
437	SR WATER PROD OPER	U157	A	5157.00	2380.15	29.7519
			B	5415.00	2499.23	31.2404
			C	5686.00	2624.31	32.8038
			D	5970.00	2755.38	34.4423
			E	6269.00	2893.38	36.1673
			F	6582.00	3037.85	37.9731
			G	6911.00	3189.69	39.8712
			H			
255	SR WATER QUALITY TECH	E165	A	5581.00	2575.85	32.1981
			B	5860.00	2704.62	33.8077
			C	6153.00	2839.85	35.4981
			D	6461.00	2982.00	37.2750
			E	6784.00	3131.08	39.1385
			F	7123.00	3287.54	41.0942
			G	7479.00	3451.85	43.1481
			H			
431	SR WATER SERV WORKER	U146	A	4623.00	2133.69	26.6712
			B	4854.00	2240.31	28.0038
			C	5097.00	2352.46	29.4058
			D	5352.00	2470.15	30.8769
			E	5620.00	2593.85	32.4231
			F	5901.00	2723.54	34.0442
			G	6196.00	2859.69	35.7462
			H			
078	SR WORD PROC OPER	E123	A	3676.00	1696.62	21.2077
			B	3860.00	1781.54	22.2692
			C	4053.00	1870.62	23.3827
			D	4256.00	1964.31	24.5538
			E	4469.00	2062.62	25.7827
			F	4692.00	2165.54	27.0692
			G	4927.00	2274.00	28.4250
			H			

CITY OF GARDEN GROVE PAY RATES  
13 Jan 2017

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
411	ST MAINTENANCE WORKER	U132	A	4022.00	1856.31	23.2038
			B	4223.00	1949.08	24.3635
			C	4434.00	2046.46	25.5808
			D	4656.00	2148.92	26.8615
			E	4889.00	2256.46	28.2058
			F	5133.00	2369.08	29.6135
			G	5390.00	2487.69	31.0962
			H			
451	STOCK CLERK	E112	A	3295.00	1520.77	19.0096
			B	3460.00	1596.92	19.9615
			C	3633.00	1676.77	20.9596
			D	3815.00	1760.77	22.0096
			E	4006.00	1848.92	23.1115
			F	4206.00	1941.23	24.2654
			G	4416.00	2038.15	25.4769
			H			
450	STOREKEEPER	E135	A	4143.00	1912.15	23.9019
			B	4350.00	2007.69	25.0962
			C	4568.00	2108.31	26.3538
			D	4796.00	2213.54	27.6692
			E	5036.00	2324.31	29.0538
			F	5288.00	2440.62	30.5077
			G	5552.00	2562.46	32.0308
			H			
233	SUPERVISING BLDG INSPCTR	M179	A	6292.00	2904.00	36.3000
			B	6607.00	3049.38	38.1173
			C	6937.00	3201.69	40.0212
			D	7284.00	3361.85	42.0231
			E	7648.00	3529.85	44.1231
			F	8030.00	3706.15	46.3269
			G	8432.00	3891.69	48.6462
			H			
237	TRAFFIC ENGINEER	M211	A	8652.00	3993.23	49.9154
			B	9085.00	4193.08	52.4135
			C	9539.00	4402.62	55.0327
			D	10016.00	4622.77	57.7846
			E	10517.00	4854.00	60.6750
			F	11043.00	5096.77	63.7096
			G	11595.00	5351.54	66.8942
			H			
405	TRAFFIC SIGNAL ELECTRICIAN	U143	A	4488.00	2071.38	25.8923
			B	4712.00	2174.77	27.1846
			C	4948.00	2283.69	28.5462
			D	5195.00	2397.69	29.9712
			E	5455.00	2517.69	31.4712
			F	5728.00	2643.69	33.0462
			G	6014.00	2775.69	34.6962
			H			



CITY OF GARDEN GROVE PAY RATES  
13 Jan 2017

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
040	UTILITIES REVENUE SUPV	M166	A	5528.00	2551.38	31.8923
			B	5804.00	2678.77	33.4846
			C	6094.00	2812.62	35.1577
			D	6399.00	2953.38	36.9173
			E	6719.00	3101.08	38.7635
			F	7055.00	3256.15	40.7019
			G	7408.00	3419.08	42.7385
			H			
410	UTILITY WORKER	U112	A	3296.00	1521.23	19.0154
			B	3461.00	1597.38	19.9673
			C	3634.00	1677.23	20.9654
			D	3816.00	1761.23	22.0154
			E	4007.00	1849.38	23.1173
			F	4207.00	1941.69	24.2712
			G	4417.00	2038.62	25.4827
			H			
429	WATER CUST SERVICE WRKR	U138	A	4269.00	1970.31	24.6288
			B	4482.00	2068.62	25.8577
			C	4706.00	2172.00	27.1500
			D	4941.00	2280.46	28.5058
			E	5188.00	2394.46	29.9308
			F	5447.00	2514.00	31.4250
			G	5719.00	2639.54	32.9942
			H			
436	WATER PROD OPER	U142	A	4443.00	2050.62	25.6327
			B	4665.00	2153.08	26.9135
			C	4898.00	2260.62	28.2577
			D	5143.00	2373.69	29.6712
			E	5400.00	2492.31	31.1538
			F	5670.00	2616.92	32.7115
			G	5954.00	2748.00	34.3500
			H			
433	WATER PRODUCTION ELECT	U163	A	5474.00	2526.46	31.5808
			B	5748.00	2652.92	33.1615
			C	6035.00	2785.38	34.8173
			D	6337.00	2924.77	36.5596
			E	6654.00	3071.08	38.3885
			F	6987.00	3224.77	40.3096
			G	7336.00	3385.85	42.3231
			H			
438	WATER PRODUCTION MECHANIC	U147	A	4670.00	2155.38	26.9423
			B	4904.00	2263.38	28.2923
			C	5149.00	2376.46	29.7058
			D	5406.00	2495.08	31.1885
			E	5676.00	2619.69	32.7462
			F	5960.00	2750.77	34.3846
			G	6258.00	2888.31	36.1038
			H			

CITY OF GARDEN GROVE PAY RATES  
13 Jan 2017

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CLS#	TITLE	RANGE	STEP	MONTHLY	BI-WEEKLY	HOURLY
115	WATER QUALITY TECHNICIAN	E150	A	4808.00	2219.08	27.7385
			B	5048.00	2329.85	29.1231
			C	5300.00	2446.15	30.5769
			D	5565.00	2568.46	32.1058
			E	5843.00	2696.77	33.7096
			F	6135.00	2831.54	35.3942
			G	6442.00	2973.23	37.1654
			H			
430	WATER SERVICE WORKER	U132	A	4022.00	1856.31	23.2038
			B	4223.00	1949.08	24.3635
			C	4434.00	2046.46	25.5808
			D	4656.00	2148.92	26.8615
			E	4889.00	2256.46	28.2058
			F	5133.00	2369.08	29.6135
			G	5390.00	2487.69	31.0962
			H			
409	WATER SERVICES MANAGER	M215	A	9003.00	4155.23	51.9404
			B	9453.00	4362.92	54.5365
			C	9926.00	4581.23	57.2654
			D	10422.00	4810.15	60.1269
			E	10943.00	5050.62	63.1327
			F	11490.00	5303.08	66.2885
			G	12065.00	5568.46	69.6058
			H			
102	WEBMASTER	E174	A	6106.00	2818.15	35.2269
			B	6411.00	2958.92	36.9865
			C	6732.00	3107.08	38.8385
			D	7069.00	3262.62	40.7827
			E	7422.00	3425.54	42.8192
			F	7793.00	3596.77	44.9596
			G	8183.00	3776.77	47.2096
			H			
077	WORD PROC OPERATOR	E113	A	3327.00	1535.54	19.1942
			B	3493.00	1612.15	20.1519
			C	3668.00	1692.92	21.1615
			D	3851.00	1777.38	22.2173
			E	4044.00	1866.46	23.3308
			F	4246.00	1959.69	24.4962
			G	4458.00	2057.54	25.7192
			H			

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To: Scott C. Stiles From: Teresa Pomeroy  
Dept.: City Manager Dept.: City Clerk  
Subject: Receive and file minutes Date: 1/24/2017  
from the meeting held on  
November 22, 2016. (*Action  
Item*)

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Attached are the minutes from the meeting held on November 22, 2016,  
recommended to be received and filed.

**ATTACHMENTS:**

<b>Description</b>	<b>Upload Date</b>	<b>Type</b>	<b>File Name</b>
Minutes	1/19/2017	Backup Material	cc-min_11_22_16.pdf

MINUTES

GARDEN GROVE CITY COUNCIL

Regular Meeting

Tuesday, November 22, 2016

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

CONVENE MEETING

At 6:36 p.m., Mayor Nguyen convened the meeting in the A Room.

ROLL CALL      PRESENT:          (3)    Mayor Nguyen, Council Members Beard, Bui

ABSENT:          (2)    Council Members Jones, Phan

INVOCATION

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

COMMUNITY SPOTLIGHT: RECOGNITION OF 2016 MISS GARDEN GROVE AND HER COURT OF HONOR AND MISS GARDEN GROVE'S OUTSTANDING TEEN'S COURT OF HONOR

COMMUNITY SPOTLIGHT: RECOGNITION OF JUDIEL ENNIS FOR HER SELFLESS ACT OF DONATING BONE MARROW TO SAVE ZOEY AND ZAYNE ESPAYOS

ORANGE COUNTY STREETCAR PROJECT PRESENTATION BY ORANGE COUNTY TRANSPORTATION AUTHORITY REPRESENTATIVES

ORAL COMMUNICATIONS

Speakers: Tom Goode, Marilyn Rubio, Terry Anderson, Marisol Rivera, Walter Muneton, Tom Zero, Tony Flores, Glen Peterson, Sabiha Khan, Mark Anthony Paredes, Julian Garcia, Peter Katz, Charles Mitchell, Hasan Hboubati, Beth Mays, David Bracey, Sylvia Kim, Heidi Vargas, Lynne Aoki, Shaista Azad

REQUEST FROM WEST GARDEN GROVE YOUTH BASEBALL FOR CO-SPONSORSHIP OF ITS 2017 OPENING DAY PARADE

It was moved by Mayor Nguyen, seconded by Council Member Beard that:

The West Garden Grove Youth Baseball request for co-sponsorship of its 2017 Opening Day Parade, be approved; and

The City Council Contingency Fund, in the amount of \$3,450, be used to cover the cost.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

RECESS

At 7:44 p.m., Mayor Nguyen declared a recess.

RECONVENE

At 7:51 p.m., Mayor Nguyen reconvened the meeting with Council Members Beard and Bui present.

RECEIVE AND FILE THE FISCAL YEAR 2015-16 DEVELOPMENT IMPACT FEE ANNUAL REPORT

It was moved by Council Member Bui, seconded by Council Member Beard that:

The Fiscal Year 2015-16 Development Impact Fee Annual Report be received and filed as required by Government Code Section 66006(b).

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

ADOPTION OF A RESOLUTION APPROVING THE SUBMITTAL OF THE EUCLID/WESTMINSTER INTERSECTION IMPROVEMENT PROJECT AND ADOPTING A NEGATIVE DECLARATION PURSUANT TO THE CALIFORNIA ENVIRONMENTAL QUALITY ACT

It was moved by Council Member Bui, seconded by Council Member Beard that:

Resolution No. 9395-16 entitled A Resolution of the City Council of the City of Garden Grove approving the submittal of the Euclid Street/Westminster Avenue Intersection Improvement Project to the Orange County Transportation Authority (OCTA) for funding under the Comprehensive Transportation Program, be adopted.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

ADOPTION OF A RESOLUTION ADOPTING FISCAL YEAR 2015-16 MEASURE M2 ANNUAL EXPENDITURE REPORT

It was moved by Council Member Bui, seconded by Council Member Beard that:

Resolution No. 9396-16 entitled A Resolution of the City Council of the City of Garden Grove concerning the Fiscal Year 2015-16 Measure M2 Annual Expenditure Report for the City of Garden Grove for the Fiscal Year ending June 30, 2016, be adopted.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

AUTHORIZE THE ISSUANCE OF PURCHASE ORDERS TO REGENCY LIGHTING, PREMIUM QUALITY LIGHTING, AND WALTERS WHOLESALE ELECTRIC, FOR LIGHTING AND ELECTRICAL REPAIR PARTS

It was moved by Council Member Bui, seconded by Council Member Beard that:

Purchase orders be awarded to Regency Lighting, Premium Quality Lighting, and Walters Wholesale Electric for lighting and electrical repair parts;

The Finance Director be authorized to issue three (3) purchase orders in a fixed amount collectively not to exceed \$100,000 per year for three (3) years to be divided between Regency Lighting, Premium Quality Lighting, and Walters

Wholesale Electric; and

The City Manager be authorized to review and approve annual renewals provided that sufficient funds are budgeted for the renewals.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

AWARD OF A CONTRACT FOR ON-CALL CONSTRUCTION INSPECTION SERVICES TO CIVILTEC ENGINEERING, INC., FOR WATER INFRASTRUCTURE REHABILITATION PROJECTS

It was moved by Council Member Bui, seconded by Council Member Beard that:

A contract for inspection services be awarded to Civiltec Engineering, Inc. for the MWD Interconnect and PRV Facilities Rehabilitation Project and the Well No. 21 Redevelopment Project in the amount of \$151,705; and

The City Manager be authorized to sign the professional service agreement with Civiltec Engineering, Inc., for the inspection services of the MWD Interconnect and PRV Facilities Rehabilitation Project and the Well No. 21 Redevelopment Project.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

AUTHORIZE THE ISSUANCE OF A PURCHASE ORDER TO NATIONAL AUTO FLEET GROUP FOR ONE (1) NEW POLICE COMMAND VEHICLE

It was moved by Council Member Bui, seconded by Council Member Beard that:

The Finance Director be authorized to issue a Purchase Order in the amount of \$83,807.03 to National Auto Fleet Group for the purchase of one (1) new Police command vehicle.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

AWARD OF A CONTRACT TO R.E. SCHULTZ CONSTRUCTION, INC., TO INSTALL NEW PLAYGROUND EQUIPMENT AND POUR-IN-PLACE PLAYGROUND RUBBERIZED SURFACING AT EASTGATE PARK

It was moved by Council Member Bui, seconded by Council Member Beard that:

A contract be awarded to R.E. Schultz Construction, Inc., for the installation of new playground equipment and poured-in-place playground surfacing at Eastgate Park, in the amount not to exceed \$93,290; and

The City Manager, or his designee, be authorized to sign the Agreement on behalf of the City, including making minor modifications as appropriate and necessary.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

APPROVAL OF AN AGREEMENT WITH HOWROYD-WRIGHT EMPLOYMENT AGENCY, INC., DBA APPLEONE EMPLOYMENT SERVICES

It was moved by Council Member Bui, seconded by Council Member Beard that:

The agreement with Howroyd-Wright Employment Agency, Inc., dba AppleOne Employment Services, in an amount not to exceed \$100,000 for the first year, be approved; and

The City Manager, or his designee, be authorized to execute the contract and the four option years in the amount of \$50,000 a year.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

APPROVAL OF A LEASE AGREEMENT WITH THE CREDIT UNION OF SOUTHERN CALIFORNIA FOR OFFICE SPACE AT 11390 STANFORD AVENUE, GARDEN GROVE

It was moved by Council Member Bui, seconded by Council Member Beard that:

The Second Amendment to Lease Agreement with the Credit Union of Southern California for continued occupancy of 11390 Stanford Avenue, Garden Grove, be approved; and



The City Manager be authorized to execute the Second Amendment and make minor modifications as needed on behalf of the City.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

ACCEPTANCE OF THE SITE C DEMOLITION PROJECT AT 12511, 12531, 12551, AND 12571 TWINTREE LANE; AND 12222, 12252, 12262, 12272, 12292, 12302 HARBOR BOULEVARD, GARDEN GROVE, AS COMPLETE

It was moved by Council Member Bui, seconded by Council Member Beard that:

The Site C Demolition Project be accepted as complete;

The City Manager be authorized to execute the Notice of Completion; and

The Finance Director be authorized to release the retention payment when appropriate to do so.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

GRANT OF EASEMENT TO SOUTHERN CALIFORNIA EDISON OVER REAL PROPERTY DESIGNATED BY APN: 090-163-43 & 44

It was moved by Council Member Bui, seconded by Council Member Beard that:

The conveyance of the easement to Southern California Edison be approved; and

The City Manager be authorized to execute the easement on behalf of the City.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

ADOPTION OF A RESOLUTION REVISING THE 2015-2017 FIRE FIGHTERS  
ASSOCIATION MEMORANDUM OF UNDERSTANDING

It was moved by Council Member Bui, seconded by Council Member Beard that:

Resolution No. 9397-16 entitled A Resolution of the City Council of the City of Garden Grove approving a revision to the Memorandum of Understanding between the Association of Fire Fighters, Garden Grove Local 2005, and the City of Garden Grove for Fiscal Year 2015-17, be adopted.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

RECEIVE AND FILE MINUTES FROM THE OCTOBER 11, 2016, AND OCTOBER 25,  
2016, MEETINGS (F: Vault)

It was moved by Council Member Bui, seconded by Council Member Beard that:

The minutes from the meetings held on October 11, 2016, and October 25, 2016, be received and filed.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

WARRANTS (F: 60.5)

It was moved by Council Member Bui, seconded by Council Member Beard that:

Payroll Warrants 180409 through 180456, 180457 through 180506; Direct Deposits D301790 through D302479, D302478 through D303176; and Wires W2282 through W2285, W2286 through W2289; be approved as presented in the warrant register submitted, and have been audited for accuracy and funds are available for payment thereof by the Finance Director; and

Regular Warrants 613179 through 613441, 613442 through 614050, 614051 through 614194 and 614195 through 614528; Wires W1691 through W1695, W1696, and W1697 through W1709; Direct Deposits W613441 through W614049 be approved as presented in the warrant register submitted, and have been audited for accuracy and funds are available for payment thereof by the Finance Director.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

WAIVE FULL READING OF ORDINANCES LISTED

It was moved by Council Member Bui, seconded by Council Member Beard that:

Full reading of ordinances listed be waived.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

PUBLIC HEARING - INTRODUCTION OF AN ORDINANCE ADOPTING THE 2016 CALIFORNIA UNIFORM BUILDING CODES WITH MODIFICATIONS

*(As approved earlier in the meeting: It was moved by Council Member Bui, seconded by Council Member Beard, and approved by a 3-0-2 vote, that full reading of ordinances listed be waived.)*

Following staff's presentation, Mayor Nguyen declared the Public Hearing open and asked if anyone wished to address the City Council on the matter.

Speakers: None.

There being no response from the audience, the Public Hearing was declared closed.

It was moved by Council Member Bui, seconded by Council Member Beard that:

Ordinance No. 2876 entitled:

An Ordinance of the City Council of the City of Garden Grove amending Title 18 of the Garden Grove Municipal Code and adopting by reference the following primary codes with certain amendments, deletions, and additions thereto: California Building Code, 2016 Edition; California Residential Code, 2016 Edition; California Electrical Code, 2016 Edition; California Mechanical Code, 2016 Edition; California Plumbing Code, 2016 Edition; California Energy Code, 2016 Edition; California Historical Building Code, 2016 Edition; California Fire Code, 2016 Edition; California Existing Building Code, 2016 Edition; California Green Building Standards Code, 2016 Edition; and certain secondary codes including The International Property Maintenance Code,

2015 Edition, as published by The International Code Council; and The Uniform Swimming Pool, Spa, and Hot Tub Code, 2015 Edition, as published by The International Association of Plumbing and Mechanical Officials, be passed to second reading.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

INTRODUCTION OF AN ORDINANCE AND ADOPTION OF A RESOLUTION  
ESTABLISHING CITYWIDE PARK FEES AND REVISING THE IN-LIEU OF PARK  
DEDICATION FEES, TRANSPORTATION FACILITIES FEES AND DRAINAGE  
FACILITIES FEES

*(As approved earlier in the meeting: It was moved by Council Member Bui, seconded by Council Member Beard, and approved by a 3-0-2 vote, that full reading of ordinances listed be waived.)*

Following staff's presentation, Mayor Nguyen declared the Public Hearing open and asked if anyone wished to address the City Council on the matter.

Speakers: Steve LaMotte, Building Industry Association requesting a one month continuance on this matter.

There being no further response from the audience, the Public Hearing was declared closed.

Following City Council discussion, it was moved by Council Member Beard, that the Ordinance be passed to second reading.

Council Member Bui moved a substitute motion, seconded by Council Member Beard that:

The Public Hearing be continued to a meeting when the new City Council Members would be seated to allow them to make the decision on new fees, and the structure of those fees.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

CONSIDERATION OF A RECOMMENDATION FROM THE PARKS, RECREATION AND ARTS COMMISSION REGARDING JOINT USE AGREEMENTS WITH THE GARDEN GROVE UNIFIED SCHOOL DISTRICT

Following staff's presentation and City Council discussion, it was moved by Council Member Beard, seconded by Council Member Bui that:

City staff be directed to open discussions with the Garden Grove Unified School District to look at opportunities for additional joint use agreements.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

AWARD A CONTRACT TO SCHAFER CONSULTING, INC., FOR ENTERPRISE RESOURCE PLANNING CONSULTING SERVICES

Following staff's presentation and City Council discussion, it was moved by Council Member Beard that:

A contract be awarded to the highest scoring proposer, Schafer Consulting, Inc., in the amount of \$394,260, for all three phases for ERP Consulting and other services as outlined in the proposal; and

The City Manager or his designee be authorized to execute the contract and, as needed, approve two additional option years for ERP implementation and other services as outlined in the proposal.

Council Member Bui moved to amend the motion, seconded by Council Member Beard, to include a City Council Oversight Committee to the process, with Council Member Bui chairing the committee.

Council Member Beard seconded the motion.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

APPROVAL OF AN AGREEMENT WITH SOUTHERN CALIFORNIA EDISON FOR THE  
CONVERSION OF EDISON-OWNED STREET LIGHTS FROM HIGH PRESSURE SODIUM  
TO LIGHT EMITTING DIODE (LED)

Following staff's presentation and City Council discussion, it was moved by Mayor Nguyen, seconded by Council Member Beard that:

The Energy Efficiency LED Fixture Replacement Agreement with Southern California Edison (SCE) for the conversion of Edison-owned street lights to Light Emitting Diode (LED) be approved; and

The City Manager be authorized to execute the agreement on behalf of the City.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

SECOND READING AND ADOPTION, BY TITLE ONLY, OF ORDINANCE NO. 2874  
INCREASING THE TRAFFIC COMMISSION FROM FIVE TO SEVEN MEMBERS  
(F: 122.11A)(XR: 50.2)

*(As approved earlier in the meeting: It was moved by Council Member Bui, seconded by Council Member Beard, and approved by a 3-0-2 vote, that full reading of ordinances listed be waived.)*

Following the reading of the title of Ordinance No. 2874 into the record, it was moved by Mayor Nguyen, seconded by Council Member Bui that:

Ordinance No. 2874 entitled

An Ordinance of the City Council of the City of Garden Grove amending Section 2.70.10 of Chapter 2.70 of Title 2 to the Garden Grove Municipal Code relating to the Traffic Commission, be adopted.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

SECOND READING AND ADOPTION, BY TITLE ONLY, OF ORDINANCE NO. 2875  
ADOPTING ANIMAL CONTROL REGULATIONS FOR THE CITY OF GARDEN GROVE  
(F: 27.1)(XR: 50.2)

*(As approved earlier in the meeting: It was moved by Council Member Bui, seconded by Council Member Beard, and approved by a 3-0-2 vote, that full reading of ordinances listed be waived.)*

Following the reading of the title of Ordinance No. 2875 into the record, it was moved by Council Member Bui, seconded by Council Member Beard that:

Ordinance No. 2875 entitled:

An Ordinance of the City Council of the City of Garden Grove amending Chapters 6.04 and 6.05 of Title 6 of the Garden Grove Municipal Code regarding Animal Regulations, be adopted.

The motion carried by a 3-0-2 vote as follows:

Ayes: (3) Beard, Bui, Nguyen  
Noes: (0) None  
Absent: (2) Jones, Phan

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

DISCUSSION ON A JOINT RESOLUTION BETWEEN THE GARDEN GROVE UNIFIED  
SCHOOL DISTRICT AND THE CITY TO ADDRESS CONCERNS REGARDING  
POTENTIAL EFFECTS OF THE RECENT ELECTION, AS REQUESTED BY MAYOR  
NGUYEN

Mayor Nguyen expressed appreciation to the members of the public who spoke in support of this Resolution. He expressed concern for the ongoing rhetoric since the election regarding the deportation of undocumented immigrants. He stated that the city of Garden Grove is a city of compassion, and all immigrants are welcome. One goal of the joint resolution between the City and the School District is to document the ongoing practice of the Police Department not to become involved in immigrant affairs.

Council Member Bui expressed his concern on the negative language, stating that the city of Garden Grove has fostered an environment where people live in harmony, and he would like to see positive language in the resolution, rather than rhetoric against the President-Elect.

After further City Council discussion, it was moved by Mayor Nguyen, seconded by Council Member Beard that:

A joint resolution between the City and the Garden Grove Unified School District addressing concerns regarding the rhetoric and potential effects of the recent election be listed for consideration by the City Council at the January 24, 2017, meeting; and

Both Mayor Nguyen and Council Member Bui work together on the resolution to 1) emphasize fostering harmony in our city; 2) discourage hateful rhetoric toward immigrants; and 3) include language that the Police Department will continue to not act as immigration agents.

The motion carried by a 3-0-2 vote as follows:

Ayes:	(3)	Beard, Bui, Nguyen
Noes:	(0)	None
Absent:	(2)	Jones, Phan

Council Member Beard stated that he will be contacting Mr. Zero regarding crossing his property when posting political signs. He wished everyone a Happy Thanksgiving.

Council Member Bui thanked the audience for coming to the City Council meeting, and wished everyone a Happy Thanksgiving.

Mayor Nguyen expressed gratitude for the opportunity to serve as Garden Grove's Mayor. He further expressed concern regarding the aggression toward Native Indians happening during this Thanksgiving week.

#### ADJOURNMENT

At 8:55 p.m., Mayor Nguyen adjourned the meeting in memory of the Police Officers tragically killed in the line of duty. The next City Council Meeting will be held on Tuesday, December 13, 2016, at 5:30 p.m. at the Community Meeting Center, 11300 Stanford Avenue, Garden Grove, California.

Kathleen Bailor, CMC  
City Clerk



## City of Garden Grove

# INTER-DEPARTMENT MEMORANDUM

To:	Scott C. Stiles	From:	Teresa Pomeroy
Dept.:	City Manager	Dept.:	City Clerk
Subject:	Approval of Warrants. ( <i>Action Item</i> )	Date:	1/24/2017

Attached are the warrants recommended for approval.

**ATTACHMENTS:**

Description	Upload Date	Type	File Name
Warrants	1/19/2017	Cover Memo	CC_Warrants_1-24-17.pdf

180652	KIMBERLY HUY	2244.03	180653	VINCENT T NGUYEN	8895.44
180654	JONATHAN C WOLFE	3773.71	180655	BENJAMIN L STAUFFER	20721.05
180656	BENJAMIN L STAUFFER	900.69	180657	-180692	(VOID) 0.00
180693	STEPHANIE L KLOPFENSTEIN	206.35	180694	MICHAEL J MC CLELLAN	2396.22
180695	JUDITH A MOORE	1846.55	180696	DIANE BELAIR	1528.42
180697	AMANDA M POLLOCK	1180.89	180698	JO ANNE M CHUNG	2160.94
180699	TIMOTHY E THRONE	217.97	180700	THOMAS E BUTTERS	1952.21
180701	CHRIS M VERES	3062.15	180702	ERIC M ESPINOZA	642.99
180703	ROBERT R MOUNGEY	290.87	180704	MICHAEL F ROCHA	1835.83
180705	JAVIER RODRIGUEZ	983.03	180706	DANIEL C MOSS	1329.05
180707	YUKIYOSHI NAKAGAWA	1398.11	180708	SOUHELIA K GOUNTOUMA	1491.26
180709	ANA E PULIDO	2845.07	180710	STEPHANIE AMBRIZ	203.15
180711	VALERIA J BARON	153.43	180712	DEANNA M CHUMACERO	554.91
180713	STEVEN E GOMEZ	482.46	180714	KELLY L HOWENSTEIN	418.00
180715	ARIANA D RUVALCABA	92.87	180716	PHILIP J SEYMOUR	87.52
180717	BREANA C VARGAS	169.90	180718	NICHOLAS S SEELEY	71.56
180719	JOSEPH I VALENZUELA	149.10	180720	ISAAC DAVILA	420.11
180721	MICHELLE N ESTRADA-MONSA	511.92	180722	JULIAN TAPIA	322.13
180723	RANDY L TUCKER	807.93	180724	JOAN M CEPLIUS	430.88
180725	O.C.E.A. GENERAL	2002.64	180726	O.C.E.A.	1010.19
180727	COMMUNITY HEALTH CHARITI	50.00	180728	GARDEN GROVE POLICE ASSO	1450.00
D305274	KRIS C BEARD	210.84	D305275	PHAT T BUI	1.00
D305276	STEVEN R JONES	106.05	D305277	DIEDRE THU HA NGUYEN	194.06
D305278	KIM B NGUYEN	191.04	D305279	JOHN R O'NEILL	206.35
D305280	PAMELA M HADDAD	1583.20	D305281	SHAWN S PARK	1959.14
D305282	SCOTT C STILES	6609.61	D305283	MARIA A STIPE	4848.98
D305284	MEENA YOO	1601.51	D305285	CATHERINE L FOX	201.62
D305286	DENISE KEHN	1957.56	D305287	MARITZA PIZARRO	1547.97
D305288	TERESA L POMEROY	2453.69	D305289	SHAUNA J CARRENO	1885.50
D305290	TERESA G CASEY	1260.71	D305291	VIRGINIA DELGADO	1583.66
D305292	DANNY HUYNH	3185.02	D305293	VILMA C KLOESS	1737.49
D305294	IVY LE	1750.04	D305295	TAMMY LE	1608.60
D305296	LINDA MIDDENDORF	2415.67	D305297	ROSALINDA MOORE	1233.42
D305298	MARIA A NAVARRO	2103.47	D305299	PHUONG VIEN T NGUYEN	2362.64
D305300	QUANG NGUYEN	2231.91	D305301	TINA T NGUYEN	1950.63
D305302	THYANA T PHI	2107.58	D305303	MARIA RAMOS	1988.18
D305304	TANYA L TO	1573.30	D305305	CUONG K TRAN	1943.38
D305306	ELAINE TRUONG	1273.28	D305307	THANH-NGUYEN VO	1807.08
D305308	SYLVIA GARCIA	1931.35	D305309	KINGSLEY C OKEREKE	4959.19
D305310	ANN CAO EIFERT	2336.12	D305311	HEIDI M JANZ	2073.00
D305312	CHRISTI C MENDOZA	517.71	D305313	DEBORAH A POWELL	1511.26
D305314	MARGARITA A ABOLA	1694.02	D305315	ELLIS EUN ROK CHANG	2605.64
D305316	JANET J CHUNG	1853.05	D305317	CLAUDIA FLORES	3019.31
D305318	RHONDA C KAWELL	2735.53	D305319	ROBERT W MAY	1278.24
D305320	SHAWNA A McDONOUGH	1692.94	D305321	ALEXANDER TRINIDAD	2471.82
D305322	LIGIA ANDREI	1302.02	D305323	ARIANA B BAUTISTA	1427.79
D305324	KAREN J BROWN	353.88	D305325	CHERYLE LYNN EICHEL	85.07
D305326	SUE J GULLEY	285.13	D305327	JEFF N KURAMOTO	2079.09

\*\*\*\* PAGE TOTAL = 167177.87

D305328	CHELSEA E LUKAS	1306.44	D305329	EDWARD E MARVIN JR	1613.37
D305330	ANGELA M MENDEZ	1613.52	D305331	MONICA A NEELY	2728.22
D305332	JENNIFER L PETERSON	1706.01	D305333	ANH PHAM	1418.32
D305334	EVA RAMIREZ	1623.05	D305335	JAIME F CHAVEZ	1370.61
D305336	GARY F HERNANDEZ	1534.53	D305337	SANDRA E SEGAWA	3038.58
D305338	ALANA R CHENG	2079.73	D305339	LISA L KIM	3710.08
D305340	SAEED R AMIRAZIZI	3317.97	D305341	MICHAEL G AUSTIN	2343.76
D305342	TODD C HARTWIG	2169.04	D305343	AARON J HODSON	1881.34
D305344	JERROLD R HOLSTEIN	405.82	D305345	DONALD E LUCAS	2515.70
D305346	LIZABETH C VASQUEZ	1580.26	D305347	RODRIGO E VICTORIA	448.66
D305348	DANIEL A WINDHAM	2326.98	D305349	ISABELLA C ZANDVLIET	1860.82
D305350	CHRISTOPHER CHUNG	2294.15	D305351	PAUL GUERRERO	2346.80
D305352	KARL J HILL	3771.14	D305353	LEE W MARINO	3177.11
D305354	MARIA L MEDRANO	1862.17	D305355	MARIA C PARRA	2262.09
D305356	ERIN WEBB	2716.58	D305357	GREG BLODGETT	2513.73
D305358	MONICA COVARRUBIAS	2391.87	D305359	GRACE E LEE	2188.27
D305360	AMEENAH ABU-HAMDIYYAH	1679.82	D305361	JULIE A ASHLEIGH	1733.83
D305362	RITA M CRAMER	1891.99	D305363	RALPH V HERNANDEZ	2014.45
D305364	ALLISON MILLS	1768.01	D305365	JIMMY NGUYEN	1712.39
D305366	ROY N ROBBINS	2597.10	D305367	NIDA R WATKINS	2389.27
D305368	MICHAEL C BOS	2135.50	D305369	HOWARD R BROWN	2544.40
D305370	DANIEL J CANDELARIA	4000.23	D305371	KAMYAR DIBAJ	289.10
D305372	NICOLAS C HSIEH	2780.77	D305373	ROSEMARIE JACOT	1897.23
D305374	NAVIN B MARU	3182.22	D305375	MICHAEL F SANTOS	2514.70
D305376	MARK P UPHUS	3808.35	D305377	JOSE A VASQUEZ	1749.28
D305378	ANA G VERGARA NEAL	1986.86	D305379	DAI C VU	3353.88
D305380	KHANG L VU	2285.56	D305381	JOSHUA J ARIONUS	1482.67
D305382	JAN BERGER	1818.98	D305383	ROBERT P BERMUDEZ	2649.57
D305384	TIM P CANNON	3265.49	D305385	MYUNG J CHUN	2876.25
D305386	CARINA M DAN	242.19	D305387	RYAN H DAVIS	318.12
D305388	RONALD W DIEMERT	1790.53	D305389	CHRIS N ESCOBAR	2701.66
D305390	JASON A FERTAL	1649.24	D305391	ALEJANDRO GONZALEZ	2022.67
D305392	MICHAEL J GRAY	1007.70	D305393	LARRY GRIFFIN	1983.42
D305394	ROBERT ALAN HAENDIGES	1833.65	D305395	RYAN S HART	3092.98
D305396	ROBERT M HIGGINBOTHAM	1168.42	D305397	EDWARD A HUY	2332.58
D305398	VIDAL JIMENEZ	2340.88	D305399	SAMUEL K KIM	3595.69
D305400	SHAN L LEWIS	1588.13	D305401	REBECCA PIK KWAN LI	2824.88
D305402	SCOTT T LOWE	2554.51	D305403	DAVID MA'AE	1580.92
D305404	TYLER MEISLAHN	1632.54	D305405	JESSE K MONTGOMERY	1642.39
D305406	STEVEN J MOYA JR	1765.95	D305407	BASIL G MURAD	2819.31
D305408	KIRK L NATLAND	665.34	D305409	DUC TRUNG NGUYEN	2790.11
D305410	CORNELIU NICOLAE	3548.63	D305411	ANDREW I ORNELAS	1449.56
D305412	DAVID A ORTEGA	2507.21	D305413	CELESTINO J PASILLAS	2346.55
D305414	WILLIAM F PEARSON	1995.67	D305415	LES A RUITENSCHILD	4214.52
D305416	JONATHAN RUIZ	1621.30	D305417	MODESTO R SALDANA	1760.57
D305418	ALEXIS SANTOS	1350.31	D305419	ADRIAN M SARMIENTO	3294.08
D305420	ALBERT TALAMANTES JR	667.04	D305421	MINH K TRAN	3604.43
D305422	ALEJANDRO VALENZUELA JR	954.16	D305423	ALEJANDRO N VALENZUELA	1300.82

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D305424	KATHLEEN N VICTORIA	754.39	D305425	RONALD J WOLLAND	1444.26
D305426	VICTOR K YERGENSEN	1685.36	D305427	ALICE K FREGOSO	1653.89
D305428	RAQUEL K MANSON	2331.29	D305429	CAROLYN E MELANSON	1613.73
D305430	WILLIAM E MURRAY JR	5856.93	D305431	EMILY H TRIMBLE	1387.02
D305432	ALFRED J AGUIRRE	2422.87	D305433	ANTHONY U AGUIRRE	245.20
D305434	RODOLPHO M BECERRA	1729.09	D305435	EDGAR A CANO	679.01
D305436	ALBERT J CARRISOZA	1424.21	D305437	MARRAY R CHAPMAN	4.62
D305438	VINCENT L DE LA ROSA	1686.69	D305439	HECTOR M ESPINOZA	1736.31
D305440	ROBERT J FRANCO	622.16	D305441	MAURICIO S GARCIA	2140.38
D305442	GLORIA GAW	1878.32	D305443	RICHARD R GOSSELIN	2991.87
D305444	HERMILO HERNANDEZ	1357.05	D305445	DARNELL D JERRY	419.74
D305446	KEANU M KALOLO	1330.02	D305447	BRENT KAYLOR	2296.05
D305448	BEN A KOSKY	1478.53	D305449	MARK W LADNEY	2072.33
D305450	RAUL LEYVA	3082.10	D305451	ANTONIO R MARTIN	2059.09
D305452	ROBERT P MCLOGAN	269.78	D305453	RIGOBERTO MENDEZ	2344.96
D305454	JON A MIHAILA	132.51	D305455	STEVEN T ORTIZ	1789.41
D305456	RICHARD L PINKSTON	1663.90	D305457	BRADLEY J POINDEXTER	695.45
D305458	STEVE J TAUANU'U	1729.07	D305459	SUSAN VITALI	837.75
D305460	JEFFREY G CANTRELL	1800.67	D305461	THOMAS C COUNTS	70.82
D305462	JAMES CUNNINGHAM	2078.47	D305463	EARNEST L DOMINGUEZ	759.62
D305464	JULIA ESPINOZA	950.65	D305465	ALBERT R EURS II	1957.68
D305466	CECELIA A FERNANDEZ	1068.13	D305467	CONRAD A FERNANDEZ	890.14
D305468	JORGE GONZALEZ	1017.79	D305469	MICHAEL R GREENE	1732.23
D305470	RONALD D GUSMAN	822.24	D305471	GLORIA A HARO	1083.03
D305472	ERIC W JOHNSON	892.59	D305473	URIEL MACIAS	601.66
D305474	KHUONG NGUYEN	1083.03	D305475	VIRGINIA NICHOLS	810.90
D305476	ALEJANDRO ORNELAS	683.81	D305477	WILLIAM R PICKRELL	2286.23
D305478	CHRISTOPHER L RELEFORD	1234.06	D305479	DELFRAO C REYES	1083.03
D305480	RAFAEL ROBLES	1141.36	D305481	RODERICK THURMAN	1467.08
D305482	EVARISTO VERA	1503.71	D305483	RICHARD L WILLIAMS	1482.55
D305484	ANSELMO AGUIRRE	1720.95	D305485	CHRISTOPHER L ALLEN	1660.98
D305486	JOHN M BRUNING	632.30	D305487	PHILLIP J CARTER	2180.46
D305488	RICK L DUVAL	1907.19	D305489	AARON R HANSEN	1107.15
D305490	PATRICIA CLAIR HAYES	2773.24	D305491	HUY HOA HUYNH	1918.01
D305492	BRYAN D KWIATKOWSKI	1254.19	D305493	BRANDON S NUNES	505.47
D305494	CHRISTOPHER B PRUDHOMME	338.26	D305495	ROLANDO QUIROZ	1497.48
D305496	TODD R REED	1552.71	D305497	ESTEBAN H RODRIGUEZ	601.33
D305498	RONALD E SANDIFORTH	1907.59	D305499	LUIS A TAPIA	2727.01
D305500	MICHAEL W THOMPSON	2064.80	D305501	WILLIAM J WHITE	1867.70
D305502	JEREMY J GLENN	463.94	D305503	JESSE GUZMAN	2233.13
D305504	BRETT A MEISLAHN	1707.69	D305505	MARK E MONSON	2109.26
D305506	STEPHEN D SUDDUTH	1383.88	D305507	TIMOTHY WALLINGFORD	3536.91
D305508	HILLARD J WILLIAMS	2249.01	D305509	ALBERT J HOLMON III	3148.20
D305510	ALLEN L SERNA	2172.17	D305511	VICTOR T BLAS	2475.03
D305512	FRANK X DE LA ROSA	3110.45	D305513	ERVIN DUBRUL	2801.43
D305514	JOSE GOMEZ	1731.74	D305515	BRENT W HAYES	2495.05
D305516	FRANK D HOWENSTEIN	2068.59	D305517	ALLEN G KIRZHNER	2122.89
D305518	KEON DONTRAY NELSON	1709.39	D305519	STEPHEN PORRAS	2275.36

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D305520	JESSE VIRAMONTES	1332.04	D305521	JOHN ZAVALA	2315.78
D305522	VERONICA AVILA	923.23	D305523	JEFFREY P DAVIS	2012.42
D305524	BRITTANI L JOHNSON	896.79	D305525	NOELLE N KIM	1549.13
D305526	MISSY M MENDOZA	349.90	D305527	MARIE L MORAN	2242.51
D305528	KRISTY H THAI	2001.97	D305529	EDWARD D AMBRIZ GARCIA	60.63
D305530	GABRIELLA E BALANDRAN	56.82	D305531	JOSUE BARREIRO MENDOZA	254.94
D305532	NICHOLAS J BARRETT	40.43	D305533	ALEXIS R BAUTISTA-MOYANO	150.15
D305534	ALEJANDRA CAMARENA	68.83	D305535	RACHEL M CAMARENA	1777.19
D305536	RENE CAMARENA	1638.87	D305537	MARTI CARROLL	998.97
D305538	VICTORIA M CASILLAS	1637.65	D305539	CYNTHIA A CHEW	1700.85
D305540	JULIE T COTTON	222.88	D305541	KENNETH E CUMMINGS	653.28
D305542	KEVIN J CUMMINGS	255.67	D305543	JEANETTE A DEMENECES	345.33
D305544	GRISELL V EVERASTICO	91.96	D305545	JARED D GARCIA	18.39
D305546	VANESSA L GARCIA	19.67	D305547	YANI GAVALDON	204.46
D305548	JACOB R GRANT	2792.58	D305549	CAROLINA HONSTAIN	218.88
D305550	KIMBERLY HUY	4206.47	D305551	ANA C IZQUIERDO	259.72
D305552	MARITZA JIMENEZ	127.83	D305553	MARISSA D LOPEZ	46.71
D305554	MARK ANTHONY LOPEZ	182.29	D305555	JOHNNY LUNA	150.15
D305556	ELAINE M MA'AE	2388.63	D305557	JESUS MEDINA	5533.84
D305558	JUAN MEDINA	1828.21	D305559	NICHOLAS M MEDINA	226.72
D305560	MONSERRAT MENDOZA ALVARE	98.33	D305561	JOHN A MONTANCHEZ	3046.31
D305562	BRIANNA M MOORE	983.17	D305563	KIRSTEN K NAKAISHI	137.67
D305564	GINA D NECCO	277.88	D305565	JACOB J NEELY	356.45
D305566	NOEL N NICHOLAS	827.83	D305567	JENNIFER GODDARD NYE	2262.90
D305568	GABRIELA O'CADIZ-HERNAND	2781.63	D305569	LORI OCHOA	1799.14
D305570	CHRISTIAN PANGAN	446.74	D305571	JANET E PELAYO	2593.66
D305572	CRISTAL PERALTA	75.80	D305573	LEGEND PHAM	181.91
D305574	SUGEIRY REYNOSO	2256.59	D305575	PAIGE L ROBINSON	259.14
D305576	MARINA Y ROMERO	1565.72	D305577	MONICA K ROMO	25.95
D305578	RICARDO SALDIVAR	242.42	D305579	LARISSA E SANTOS	120.33
D305580	DANA MARIE SAUCEDO	1932.43	D305581	EMERON J SCHLUMPBERGER	878.41
D305582	KRISTOF A SIERRA	91.42	D305583	NICOLE PATRICIA SOTO	313.62
D305584	MIRANDA M TORRES	252.52	D305585	KENNETH P TRAVIS III	174.73
D305586	CLAUDIA VALDIVIA	2596.53	D305587	JEFFREY VAN SICKLE	1896.81
D305588	JOSEFINA L VELAZQUEZ	236.82	D305589	DAISY O VENCES	192.85
D305590	JOSHUA VENCES	280.50	D305591	PAUL E VICTORIA	1134.92
D305592	DAVID M WILMES	377.57	D305593	LUCIA MEDINA-WHITTAKER	601.90
D305594	MILLIE MEROLA	1999.81	D305595	SVETLANA MOURE	1948.14
D305596	THOMAS R SCHULTZ	4970.57	D305597	RANDY ABRAHAMSON	4670.22
D305598	ALBERTO ACOSTA	3677.65	D305599	ANTHONY R ACOSTA	2883.91
D305600	JOHN D BARANGER III	2451.30	D305601	LUCAS B BAUER	9117.64
D305602	BRADLEY D BELL	3307.77	D305603	JERRY R BRENNEMAN	3909.48
D305604	GUY BROWN	2234.02	D305605	JOSE J CAMBEROS	2101.03
D305606	DANIEL L CLEARWATER	2942.84	D305607	YVES G CLERMONT	2332.45
D305608	JOE W CRAWFORD	3878.79	D305609	TIMOTHY A CRAWFORD	2887.05
D305610	JUSTIN D DOYLE	2358.73	D305611	MICHAEL G ECKHARDT JR	1862.64
D305612	DAVID W EDNOFF	2704.87	D305613	STEVE P FELLNER	5020.59
D305614	JAMES L GABBARD	2493.79	D305615	DREW R GARCIA	2581.07

\*\*\*\* PAGE TOTAL = 145417.73

D305616	JEFF W HANNA	1198.51	D305617	MATTHEW R HENSHAW	2571.14
D305618	MICHAEL L JACOBS	1394.32	D305619	WILLIAM R JAEGER	1536.28
D305620	SCOTT A KUHLMAN	2698.95	D305621	NICHOLAS A LERARIO	1775.06
D305622	COREY L LINDSAY	1281.22	D305623	NORMAN M LOVELY	3447.12
D305624	JOHN M MARQUEZ JR	1499.63	D305625	CHEYNE C MAULE	4734.14
D305626	TERRY A MCGOVERN JR	5790.52	D305627	SHANE D MELLE	6682.80
D305628	TRAVIS M MELLE	2652.07	D305629	MARK A MICKELSEN	4337.52
D305630	SON L NGUYEN	3182.01	D305631	FREDERICK N NIBLO	2953.23
D305632	BRENT C PARDOEN	2536.98	D305633	MICHAEL KURT RIETH	2272.36
D305634	WADE E RUHMAN	3179.10	D305635	DENNIS L RUZICKA	3032.08
D305636	NICK R SCHAEFER	1064.74	D305637	SCOTT A SCHERER	3361.95
D305638	JEFFREY T SPARGUR	5503.72	D305639	MORRIS B SPELL	5054.60
D305640	TIMOTHY N STOWE	1894.05	D305641	WILLIAM S STROHM	2266.93
D305642	JUSTIN D TRAVER	2312.74	D305643	CHRISTOPHER B TRENHOLM	2194.53
D305644	JUSTIN TRUHILL	3627.18	D305645	MARIO G VALDERRAMA	2932.55
D305646	KEITH T VELOTTA	3848.72	D305647	DAVID S WALDSCHMIDT	2191.84
D305648	MARK S WEISS	3280.09	D305649	PAUL J WHITTAKER	5435.40
D305650	JEFFREY WILKINS	3667.88	D305651	JOSEPH A WINGERT JR	3400.83
D305652	JASON R BLOMGREN	1616.18	D305653	MYLES A BURROUGHS	1880.66
D305654	DAVID M CARLSON	2298.75	D305655	PARKER W CARY	2601.66
D305656	JOSHUA A FELDMAN	3665.09	D305657	TIMOTHY D FISHER	4060.71
D305658	GARRET M FURUTA	3145.13	D305659	SHANE S HOWEY	2019.62
D305660	PETER M HUBER	4126.75	D305661	JORDAN R JEMIOLA	3541.19
D305662	JAYCEN R JUSTUS	1660.00	D305663	MATTHEW C KLEIBACKER	1617.40
D305664	ANTHONY L KNAACK	3536.89	D305665	JOSHUA D LEE	1957.24
D305666	DANIEL J MOORE	3013.30	D305667	GRANT A NOBLE	3496.62
D305668	ERIC S NORRDIN	2566.16	D305669	ANTHONY J PAGE	2288.84
D305670	ERIC M PALOMO	3412.09	D305671	ANDREW J ROACH	2137.62
D305672	RICHARD RONSTADT	3773.65	D305673	DAVID C SANCHEZ	1212.64
D305674	ERIC P STOKER	7587.34	D305675	ERIC THORSON	1491.73
D305676	RYAN D VAN WIE	2011.40	D305677	KICKER E VENCILL	9387.36
D305678	GREGORY D WILLIAMS	3890.17	D305679	JEREMIE E YORKE	1611.46
D305680	NATHAN T BRADY	5076.14	D305681	BRYSON T DAHLHEIMER	1655.30
D305682	NOAH B FISHER	411.59	D305683	LISA S GUARDI	110.03
D305684	DON T NGUYEN	1692.78	D305685	THANH Q NGUYEN	3744.08
D305686	TIMOTHY S SAWYER	7510.27	D305687	PEDRO R ARELLANO	3111.86
D305688	TODD D ELGIN	7384.46	D305689	CAROLE A KANEGAE	2154.12
D305690	KRISTEN A BACKOURIS	1492.11	D305691	GENA M BOWEN	1455.42
D305692	JESENIA CAMPOS	1168.86	D305693	HELENA ELISOUSOU	2185.79
D305694	ROBERT D FOWLER	4720.20	D305695	AI KELLY HUYNH	1765.93
D305696	EDUARDO C LEIVA	4492.51	D305697	CINDY S NAGAMATSU HANLON	2344.09
D305698	JEFFREY C NIGHTENGAL	4233.05	D305699	TRAVIS J WHITMAN	5825.76
D305700	CLAUDIA ALARCON	2943.11	D305701	TIMOTHY R ASHBAUGH	2161.51
D305702	ALFREDO R AVALOS	3123.21	D305703	CARLOS BAUTISTA JR	2336.30
D305704	JOSHUA K BEHZAD	2415.67	D305705	RYAN S BERLETH	1759.61
D305706	SUMMER A BOGUE	1688.07	D305707	RICHARD O BURILLO	4748.01
D305708	RYAN V BUSTILLOS	3529.26	D305709	ROBERT W CAMPBELL	2690.97
D305710	JUAN C CENTENO	2878.10	D305711	JEROME L CHEATHAM	2657.00

\*\*\*\* PAGE TOTAL = 291865.61

D305712	AARON J COOPMAN	3062.71	D305713	ADAM B COUGHRAN	3058.65
D305714	GARY L COULTER	2212.50	D305715	NATHANIEL D COX	2049.60
D305716	CHARLIE DANIELEY III	1914.57	D305717	NICHOLAS A DE ALMEIDA LO	2161.87
D305718	KEVIN DINH	2662.84	D305719	RONNIE D ECHAVARRIA	3619.79
D305720	KARI A FLOOD	2079.37	D305721	MICHAEL E GERDIN	2423.71
D305722	JOSEPH P GROSS JR	2305.08	D305723	ALLAN S HARRY	3007.07
D305724	BRIAN HATFIELD	2492.11	D305725	WILLIAM T HOLLOWAY	3008.98
D305726	JASON L JOHNSON	16542.55	D305727	MICHAEL J JOHNSON	2614.23
D305728	GERALD F JORDAN	2938.07	D305729	TIMOTHY P KOVACS	4175.34
D305730	AUSTIN C LAVERTY	2221.78	D305731	CHRISTOPHER LAWTON	3838.49
D305732	RAFAEL LOERA JR	2032.91	D305733	JON D LOFQUIST	2363.40
D305734	MATTHEW P MARCHAND	3809.13	D305735	BRYAN J MEERS	2449.79
D305736	DANNY J MIHALIK	2769.00	D305737	JEREMY N MORSE	1982.39
D305738	MITCHEL S MOSSER	1941.67	D305739	PATRICK W MURPHY	3946.55
D305740	AARON S NELSON	2676.39	D305741	JASON S PERKINS	3481.06
D305742	PHILLIP H PHAM	2013.51	D305743	JOHN E REYNOLDS	3560.16
D305744	CHRISTOPHER M SHELGREN	1941.00	D305745	GAREY D STAAL	2629.69
D305746	DANIEL J VILLEGAS	2895.94	D305747	JONATHAN B WAINWRIGHT	2900.30
D305748	CHRISTOPHER A WASINGER	2768.36	D305749	MARCOS R ALAMILLO	4097.81
D305750	RICHARD A ALVAREZ-BROWN	2250.47	D305751	BOBBY B ANDERSON	2585.93
D305752	PAUL W ASHBY	3911.56	D305753	JOHN F BANKSON	2973.53
D305754	EVAN S BERESFORD	7303.65	D305755	RAY E BEX	2959.26
D305756	VANESSA M BRODEUR	2692.49	D305757	DAVID Y H CHANG	3190.26
D305758	CHASEN P CONTRERAS	2833.96	D305759	BRIAN D DALTON	1682.10
D305760	JARED R DOYLE	2579.80	D305761	AMIR A EL-FARRA	4374.85
D305762	MICHAEL K ELHAMI	2981.04	D305763	BENJAMIN M ELIZONDO	2496.28
D305764	JOSHUA N ESCOBEDO	2972.21	D305765	STEPHEN C ESTLOW	719.60
D305766	GEORGE R FIGUEREDO	3257.06	D305767	ROGER A FLANDERS	591.00
D305768	SEAN M GLEASON	2568.85	D305769	ALDO U GUERECAL	2352.86
D305770	TROY HALLER	3891.25	D305771	ARION J KNIGHT	3659.64
D305772	RAPHAEL M LEE	684.83	D305773	ERICK LEYVA	3840.06
D305774	CHARLES H LOFFLER	2482.71	D305775	MARK A LORD	2793.40
D305776	TAYLOR A MACY	4094.92	D305777	GIANLUCA F MANIACI	2415.90
D305778	MICHAEL L MARTIN	2285.42	D305779	MARIO MARTINEZ JR	4078.27
D305780	NATHAN D MORTON	3098.78	D305781	RUDOLPH J NEGRON	2291.36
D305782	JEFFREY C NGUYEN	2704.25	D305783	STEVEN TRUJILLO ORTIZ	2286.37
D305784	OMAR F PEREZ	2031.49	D305785	MICHAEL M PHILLIPS	3053.86
D305786	DOUGLAS A PLUARD	3129.03	D305787	COREY T POLOPEK	2353.84
D305788	SINDY RAMIREZ OROZCO	2009.09	D305789	JOHN E RANEY	2924.09
D305790	RYAN R RICHMOND	2191.91	D305791	CHRISTIN E ROGERS	3013.37
D305792	SEAN M SALAZAR	3469.31	D305793	LINO G SANTANA	4355.16
D305794	PHILIP E SCHMIDT	3824.09	D305795	CHARLES W STARNES	19383.73
D305796	ARTHUR F TINTLE JR	3451.09	D305797	VINCENTE J VAICARO	3494.04
D305798	JOHN J YERGLER	1911.58	D305799	KATHERINE M ANDERSON	3253.79
D305800	THOMAS A CAPPS	2976.15	D305801	PATRICK E GILDEA	3686.42
D305802	RON A REYES	3672.39	D305803	ROCKY F RUBALCABA	2232.34
D305804	ROYCE C WIMMER	3083.56	D305805	ADAM D ZMIJA	3889.33
D305806	JUAN L DELGADO JR	3029.73	D305807	CHRISTOPHER M EARLE	2451.13

\*\*\*\* PAGE TOTAL = 305402.81

D305808	OTTO J ESCALANTE	3756.05	D305809	GEORGE KAISER	2827.10
D305810	PETER M KUNKEL	2457.77	D305811	LUIS F RAMIREZ	2964.22
D305812	PETER HOANG VI	2240.35	D305813	JEFFREY A BROWN	2651.57
D305814	DONALD J HUTCHINS	3023.31	D305815	RYAN M LUX	1984.79
D305816	RAUL MURILLO JR	2723.92	D305817	JOSHUA T OLIVO	2522.72
D305818	ROBERT M STEPHENSON III	3035.10	D305819	COURTNEY P ALLISON	2152.87
D305820	LISA A BELTHIUS	256.76	D305821	CHARLES K BODDY	3961.27
D305822	THOMAS R DARE	5059.27	D305823	TIFFANY M GRIEGO	211.97
D305824	CRAIG A HERRICK	106.99	D305825	PATRICK R JULIENNE	1051.02
D305826	VERONICA NELSON	878.66	D305827	JOHN O OJEISEKHOB	106.99
D305828	JOSEPH D VARGAS	217.82	D305829	BRYAN GONZALEZ	362.91
D305830	KRYSTAL L N JEANG	349.77	D305831	HAN NA PARK	74.57
D305832	FELICIA H PEREZ	342.54	D305833	KEIRA LONG	1507.43
D305834	ROBERT E BOWERS	1102.77	D305835	KAREN D BRAME	1201.23
D305836	KENNETH L CHISM	1902.72	D305837	CHARLES M CLINE JR	836.00
D305838	JAMES E COLEGROVE	5184.75	D305839	PAUL E DANIELSON	1575.21
D305840	RUSSELL B DRISCOLL	408.95	D305841	MICHAEL FEHER	38.93
D305842	HECTOR FERREIRA JR	1654.76	D305843	KORY C FERRIN	2916.74
D305844	JAMES D FISCHER	949.35	D305845	VICTORIA M FOSTER	1334.89
D305846	NICKOLAS K JENSEN	1955.77	D305847	KENNETH E MERRILL	509.29
D305848	JOHN J STEPANOVICH	382.17	D305849	MICHAEL J VISCOMI	2696.19
D305850	SCOTT D WATSON	883.23	D305851	ROBERT L BOGUE JR	4844.52
D305852	FLOR DE LIS ELIZONDO	1247.19	D305853	GARY E ELKINS	2064.95
D305854	JOHN A FLAWS	2170.45	D305855	JASON S FULTON	1890.90
D305856	JAMES C HOLDER	2675.60	D305857	ROBERT J KIVLER	1635.62
D305858	VICTORIA L LAWTON	2211.38	D305859	ALLYSON T LE	1464.56
D305860	REBECCA S MEEKS	2234.44	D305861	MICHELLE L OLMSTEAD	1000.20
D305862	DAVID C YOUNG	3496.13	D305863	MARIA A ALCARAZ	1677.21
D305864	CARISSA L BRUNICK	1622.49	D305865	TAMMY L CHAURAN-HAIRGROV	1445.96
D305866	VERONICA FRUTOS	1062.89	D305867	DAVID L GEORGE	1779.86
D305868	JOAN L HIGHTOWER	1704.28	D305869	PINKY C HINGCO	1995.53
D305870	SUSAN C HUANG	1803.81	D305871	RORY K JANOCHA	744.88
D305872	SHELBY KEUILIAN	1388.26	D305873	ANGELA LEDESMA	1933.29
D305874	MARIA C MCFARLANE	1748.02	D305875	BRITTTNNEE D MCGOWEN	1506.38
D305876	TRINA T NGUYEN	1633.40	D305877	DEBRA J NICHOLS	2131.53
D305878	DIANA L O'BRIEN	945.99	D305879	ASHLEY C ROJAS	1730.51
D305880	JENNIFER V ROMBOUGH	1805.84	D305881	ASHLEY T SEROTA	1817.17
D305882	KIMBRA S VELLANOWETH	1799.24	D305883	KRISTIN M WEISS	1751.04
D305884	SHANNON M YELENSKY	2342.58	D305885	JENNIFER A DIX	2775.12
D305886	DEBBY L FELSE	1909.00	D305887	KATHERINE M FRANCISCO	2183.26
D305888	AMANDA B GARNER	1992.47	D305889	ARCHIE GUZMAN	2323.11
D305890	ROBERT D LUX	2360.43	D305891	MELISSA MENDOZA-CAMPOS	1944.12
D305892	MICHAEL A MOSER	1930.45	D305893	BRANDY J PARK	2180.41
D305894	CRISTINA V PAYAN	1550.56	D305895	JENNIFER M RODRIGUEZ	1953.99
D305896	TANYA L SAMOFF	2646.47	D305897	SUSAN A I SEYMOUR	2098.45
D305898	NICOLE D SHORROW	842.27	D305899	DANNY J SOSEBEE	1694.11
D305900	MARSHA D SPELLMAN	2856.07	D305901	SPENCER T TRAN	1939.31
D305902	SANTA WARDLE	2251.22	D305903	CHERYL L WHITNEY	2546.20

\*\*\* PAGE TOTAL = 175643.81



D305904	WILLIAM ALLISON	3262.85	D305905	DANIEL A CAMARA	2336.39
D305906	JOHN CASACCIA II	3259.52	D305907	HAN J CHO	3153.90
D305908	SCOTT A COLEMAN	9502.78	D305909	RICHARD E DESBIENS	1268.08
D305910	MICHAEL D FARLEY	2536.60	D305911	JAMES D FRANKS	1944.36
D305912	PETE GARCIA	1817.60	D305913	STEVEN H HEINE	1577.57
D305914	JOSE D HERRERA	2949.26	D305915	THI A HUYNH	14608.80
D305916	JOSEPH L KOLANO	2753.75	D305917	LEA K KOVACS	2987.70
D305918	NICHOLAS A LAZENBY	2931.14	D305919	DAVID LOPEZ	2601.42
D305920	STEVEN W LUKAS	1501.39	D305921	LUIS A PAYAN	3339.85
D305922	TERRA M RAMIREZ	2102.72	D305923	ORLONZO REYES	3474.47
D305924	PAUL M TESSIER	2259.09	D305925	EDGAR VALENCIA	13372.96
D305926	TUONG-VAN NGUYEN VU	1528.67	D305927	DENNIS WARDLE	2545.28
D305928	CARL J WHITNEY	2994.21	D305929	RONALD A DOSCHER	2851.75
D305930	ERIC A QUINTERO	2097.74	D305931	MARY C CERDA	1820.95
D305932	NICOLE L CHUNG	1812.72	D305933	SUSAN A HOLSTEIN	2181.03
D305934	LIANE Y KWAN	2573.12	D305935	JANY H LEE	3131.16
D305936	SHERRILL A MEAD	2053.14	D305937	CAITLYN M STEPHENSON	1356.28
D305938	LAURA J STOVER	4282.90	D305939	FRANA K CASSIDY	1567.38
D305940	ANNA L GOLD	1537.50	D305941	HIEN Q PHAM	1560.01
D305942	KATRENA J SCHULZE	398.58	D305943	MATTHEW T SWANSON	1214.81
D305944	ANTHONY VALENZUELA	1307.88	D305945	CANDY G WILDER	1736.10
D305946	STEVEN F ANDREWS	1402.09	D305947	TERENCE S CHANG	1989.57
D305948	VERNA L ESPINOZA	1660.17	D305949	CESAR GALLO	2147.83
D305950	CHARLES D KALIL	1555.91	D305951	GEOFFREY A KLOESS	2566.58
D305952	RACHOT MORAGRAAN	3117.39	D305953	NOEL J PROFFITT	3094.06
D305954	ANAND V RAO	3332.66	D305955	JOSEPH M SCHWARTZ	2073.87
D305956	ROD T VICTORIA	1909.81	D305957	TERREL KEITH WINSTON	3203.44
D305958	POLICE ASSN	13308.23	D305959	GG FIRE FIGHTERS 2005	21254.93
D305960	SO CAL CU	91221.37	D305961	SOUTHLAND CU	5765.00
W2307	GREAT WEST LIFE OBRA#340	1631.32	W2308	INTERNAL REVENUE SERVICE	378876.12
W2309	EMPLOYMENT DEVELOPMENT D	107282.82	W2310	GREAT WEST LIFE 457 #340	151212.40

\*\*\*\* PAGE TOTAL = 924698.98

TOTAL CHECK PAYMENTS	42	71,291.53
TOTAL DIRECT DEPOSITS	688	1,659,353.66
TOTAL WIRE PAYMENTS	4	639,002.66
GRAND TOTAL PAYMENTS	734	2,369,647.85

Checks #180652 thru #180728, and Direct Deposits #D305274 thru #DD305961, and wire #W2307 thru #W2310 presented in the Payroll Register submitted to the Garden Grove City Council 24 JAN 2017, have been audited for accuracy and funds are available for payment thereof.

  
KINGSLEY C OKEREKE - FINANCE DIRECTOR

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
615562	TRAN, TIM	REV & VOID	-1,135.00 *
616027	SMITH PIPE & SUPPLY COMPANY, INC	REV & VOID	-76.31 *
616588	BERTINA PANG LOH CHANG C/O CROSSROADS PROPERTY MGMT	REV & VOID	-531.00 *
617187	SUPPLYWORKS	REV & VOID	-4,192.34 *
617217	PEST OPTIONS, INC.	REV & VOID	-615.87 *
617284	ZMIJA, ADAM	TRAVEL ADVANCE-P.D.	200.00 *
617285	AT&T	TELEPHONE	3,281.71 *
617286	AT&T	TELEPHONE	2,186.87 *
617287	ANAHEIM, CITY OF	ELECTRICITY	140.51 *
617288	FRONTIER COMMUNICATIONS	TELEPHONE/BEEPERS	946.73 *
617289	CITY OF GARDEN GROVE	WATER	85.44 *
617290	MCI COMM SERVICE	TELEPHONE	33.82 *
617291-617293	VOID WARRANTS		
617294	SO CALIF EDISON CO	ELECTRICITY	54,328.10 *
617295	SO CALIF GAS CO	NATURAL GAS	9,771.65 *
617296	SPRINT	TELEPHONE	69.60 *
617297	TIME WARNER CABLE	CABLE	413.58 *

PAGE TOTAL FOR "\*" LINES = 64,907.49

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
617298	VERIZON WIRELESS-LA	TELEPHONE/BEEPERS	16,276.06 *
617299	VALENCIA, ARMANDO	TRUST FUND EXPEND	200.00 *
617300	EXTRA SPACE STORAGE INC	LAND/BLDG/ROOM RENT	1,116.00 *
617301	LOS SANCHEZ	FOOD	200.00 *
617302	AMC CPS	DELIVERY SERVICES	9.95
		ADMN/ENTRANCE FEE	2,050.00
			2,059.95 *
617303	STATE OF CALIF-FRANCHISE TAX BOARD	WAGE ATTACHMENT	201.75 *
617304	STATE OF CALIF-FRANCHISE TAX BOARD	WAGE ATTACHMENT	724.27 *
617305	EL-FARRA, AMIR	TRAVEL ADVANCE-P.D.	200.00 *
617306	ENTERPRISE RIDESHARE	OTHER RENTALS	965.00 *
617307	HERNANDEZ, GARY	MED TRUST REIMB	285.00 *
617308	i.i. FUELS, INC	MV GAS/DIESEL FUEL	41,228.78 *
617309	KIM, LISA	L/S/A TRANSPORTATION	165.85
		FOOD	198.01
			363.86 *
617310	MARYLAND CHILD SUPPORT ACCOUNT	WAGE ATTACHMENT	343.38 *
617311	LEGAL SHIELD	LEGAL	1,212.00 *
617312	REGAL CINEMEDIA C/O CBO FULFILLMENT	DELIVERY SERVICES	8.00
		ADMN/ENTRANCE FEE	1,700.00
			1,708.00 *
617313	CO. OF ORANGE	WAGE ATTACHMENT	461.54 *
617314	SAFEWAY INC	FOOD SERV SUPPL	2.69
		OTHER FOOD ITEMS	92.09
			94.78 *
617315	UNION BANK	FOOD	138.00

PAGE TOTAL FOR "\*" LINES = 67,640.37

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
		OTHER CONST SUPPLIES	121.03
			259.03 *
617316	VISCOMI, MICHAEL	TRAVEL ADVANCE-P.D.	409.84 *
617317	WASINGER, JEAN M.	WAGE ATTACHMENT	134.31 *
617318	YERGENSEN *, VICTOR	MED TRUST REIMB	663.39 *
617319	MACFARLANE, MARIA	TUITION/TRAINING	50.00 *
617320	CO. OF ORANGE	WAGE ATTACHMENT	276.92 *
617321	ARIN-AMERICAN REGISTRY FOR INTERNET NUMBERS	NETWORKING SERVICES	150.00 *
617322	ORANGE COUNTY SHERIFF/ LEVYING OFFICER CENTRAL DIV	WAGE ATTACHMENT	241.11 *
617323	INTERNAL REVENUE SERVICE	WAGE ATTACHMENT	37.50 *
617324	DIRECTV	CABLE TV SERVICE	275.21 *
617325	SELECT GRAPHIC PRINTING	PRINTING	471.42 *
617326	THOMAS CAPPS	TRAVEL ADVANCE-P.D.	546.52 *
617327	SITEIMPROVE, INC.	MAINT-SERV CONTRACTS	5,715.00 *
617328	SANTA ROSA JUNIOR COLLEGE	TUITION/TRAINING	74.00 *
617329	UNITED STATES TREASURY	WAGE ATTACHMENT	130.00 *
617330	INFOSEND, INC.	POSTAGE	11,907.65
		PRINTING	1,265.85
		OTHER PROF SERV	1,610.45
		PAPER/ENVELOPES	1,543.18
			16,327.13 *
617331	CO. OF ORANGE	WAGE ATTACHMENT	831.00 *
617332	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	IMPORT WTR-MWDOC	56,023.19 *
617333	LY, NANCY	TENANT UTILITY REIMB	16.00 *

PAGE TOTAL FOR "\*" LINES = 82,631.57

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
617334	VO, TIN TRUNG	WAGE ATTACHMENT	-201.75
		RENT SUBSIDY	807.00
			605.25 *
617335	TANG, KIM VAN	WAGE ATTACHMENT	-505.50
		RENT SUBSIDY	1,685.00
			1,179.50 *
617336	15915 LA FORGE ST WHITTIER LLC	WAGE ATTACHMENT	-761.88
		RENT SUBSIDY	2,721.00
			1,959.12 *
617337	NGUYEN, TAN QUAN	RENT SUBSIDY	994.00 *
617338	POSTMASTER	POSTAGE	1,174.00 *
617339-617340	VOID WARRANTS		
617341	HOME DEPOT CREDIT SERVICES	SEEDS/PLANTS	248.47
		LABORATORY CHEMICALS	41.09
		MOTOR VEH PARTS	224.24
		PAINT/DYE/LUBRICANTS	235.24
		JANITORIAL SUPPLIES	29.06
		ELECTRICAL SUPPLIES	297.47
		HSHLD EQUIP/SUPPLIES	64.76
		PIPES/APPURTENANCES	146.05
		MAINT SUPP-TRAFF SIG	137.38
		OTHER MAINT ITEMS	1,051.38
		OFFICE SUPPLIES/EXP	97.04
		OTHER MINOR TOOLS/EQ	1,352.85
		LUMBER	334.61
		HARDWARE	547.32
		ASPHALT PRODUCTS	19.15
		AGGREGATES/MASONRY	58.65
		OTHER CONST SUPPLIES	26.11
			4,910.87 *
617342	COSTCO C/O CAPITAL ONE COMMERCIAL	HOLIDAY TOY DRIVE	77.51
		TRUST FUND EXPEND	276.85
		FACT:YTH ENRCH	272.37
		FOOD	533.04
		FOOD SERV SUPPL	253.15
		BOTTLED WATER	62.91

PAGE TOTAL FOR "\*" LINES = 10,822.74

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
		OTHER CLOTHING ITEMS	21.59
		OTHER FOOD ITEMS	820.66
		OTHER MAINT ITEMS	447.96
		OFFICE SUPPLIES/EXP	78.08
		MINOR OFFICE FURN/EQ	368.81
		OTHER MINOR TOOLS/EQ	-442.81
		OTHER REC/CULT SUPP	30.20
			2,800.32 *
617343	SMART & FINAL	HOLIDAY TOY DRIVE	79.63
		TRUST FUND EXPEND	28.06
		FaCT:YTH ENRCH	28.40
		FaCT:CAC EXP	31.53
		FOOD SERV SUPPL	23.74
		BOTTLED WATER	11.10
		OTHER FOOD ITEMS	205.34
		OFFICE SUPPLIES/EXP	63.44
			471.24 *
617344	DIVISION OF THE STATE ARCHITECT	STATE ADA PASSTHRU	1,043.40 *
617345	THE ORANGE COUNTY HUMANE SOCIETY	OTHER PROF SERV	25,000.00 *
617346	UNION BANK	BANK FEES-CRDT CD	13.64
		LODGING	-672.00
		REGISTRATION FEES	15.00
		TUITION/TRAINING	385.00
		FOOD SERV SUPPL	15.25
		OTHER FOOD ITEMS	563.80
		OFFICE SUPPLIES/EXP	130.08
			450.77 *
617347	UNION BANK	NETWORKING SERVICES	216.38
		BANK FEES-CRDT CD	31.67
		DUES/MEMBERSHIPS	106.92
		NETWORKING SUPPLIES	415.04
		SOFTWARE	79.94
		OFFICE SUPPLIES/EXP	334.80
			1,184.75 *
617348	UNION BANK	OTHER PROF SERV	150.00
		CANINE EXPENSES	453.54
		BOOKS/SUBS/CASSETTES	427.35

PAGE TOTAL FOR "\*" LINES = 30,950.48

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
		OTHER PROF SUPPLIES	497.85
			1,528.74 *
617349	UNION BANK	L/S/A TRANSPORTATION	76.57
		SUBSISTENCE	7.51
		DUES/MEMBERSHIPS	150.00
		OFFICE SUPPLIES/EXP	2.99
			237.07 *
617350	UNION BANK	BANK FEES-CRDT CD	7.90
		MV GAS/DIESEL FUEL	269.24
			277.14 *
617351	UNION BANK	BANK FEES-CRDT CD	5.93
		TUITION/TRAINING	248.00
		OTHER PROF SUPPLIES	115.13
		HSHLD EQUIP/SUPPLIES	89.84
		OFFICE SUPPLIES/EXP	276.82
		SAFETY EQ/SUPPLIES	113.37
			849.09 *
617352	C.A.P.F. CALIF ASSOC PROF FIREFIGHTERS	DISABILITY INSURANCE	1,984.50 *
617353	CARROLL, MARTI	MED TRUST REIMB	360.10 *
617354	CHUNG, JANET	DEP CARE REIMB	4,999.80 *
617355	DE LAGE LANDEN FINANCIAL SERVICES, INC.	INTEREST COSTS	394.80
		LONG TERM DEBT	21,306.32
			21,701.12 *
617356	FRANCISCO, KATHERINE	MED TRUST REIMB	320.00 *
617357	CITY OF GARDEN GROVE-WORK COMP ACCT	SELF-INS CLAIMS	385,764.82 *
617358	REPUBLIC WASTE SERVICES OF SOUTHERN CALIFORNIA, LLC	AMT DUE GG DISPSL	503,792.84
		REFUSE COLL SERV	9,813.09
			513,605.93 *
617359	i.i. FUELS, INC	MV GAS/DIESEL FUEL	11,852.57 *

PAGE TOTAL FOR "\*" LINES = 943,480.88

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
617360	KAWELL*, RHONDA C.	MED TRUST REIMB	406.23 *
617361	KELLY PAPER	PAPER/ENVELOPES	394.10 *
617362	LOERA JR.*, RAFAEL	MED TRUST REIMB	57.94 *
617363	RUITENSCHILD, LES	DEP CARE REIMB	192.30 *
617364	S.C. YAMAMOTO, INC.	MAINT OF REAL PROP	9,684.21 *
617365	SEGAWA*, SANDRA	MED TRUST REIMB	95.00 *
617366	SEGAWA*, SANDRA	TRAVEL ADVANCE-FIN	340.00 *
617367	STATE BOARD OF EQUALIZATION SPECIAL TAXES AND FEES	PERMITS/OTHER FEES	1,299.54 *
617368	STATE BOARD OF EQUALIZATION SPECIAL TAXES AND FEES	PERMITS/OTHER FEES	1,224.41 *
617369	TIME WARNER CABLE	NETWORK COMMUNICT	834.00 *
617370	U.S. BEHAVIORAL HEALTH PLAN, CA	NON-SPEC CONTR SERV	1,640.80 *
617371	UNION BANK	BANK FEES-CRDT CD REGISTRATION FEES FOOD	2.10 2,025.00 57.53 2,084.63 *
617372	ORANGE COUNTY PUBLIC WORKS	PERMITS/OTHER FEES	1,566.95 *
617373	CARL WARREN & CO	SELF-INS ADMN	9,000.00 *
617374	CWEA CWEA-TCP	TUITION/TRAINING	392.00 *
617375	INTERNATIONAL INST. MUNICIPAL CLERKS	TUITION/TRAINING	200.00 *
617376	STANDARD INSURANCE CO. RAS EXECUTIVE BENEFITS	DISABILITY INSURANCE	893.94 *
617377	TRANSAMERICA EMPLOYEE BENEFITS	LIFE INS PREMIUM	6,680.50 *
617378	AARON HANSEN	MED TRUST REIMB	38.35 *
617379	METROLINK TRAINS	WAGE ATTACHMENT L/S/A TRANSPORTATION	1,120.00 385.00

PAGE TOTAL FOR "\*" LINES = 37,024.90



## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
			1,505.00 *
617380	STANDARD INSURANCE COMPANY	DISABILITY INSURANCE	24,338.58 *
617381	JENNIFER RODRIGUEZ	MED TRUST REIMB	45.00 *
617382	KLOESS, GEOFFREY	MED TRUST REIMB	599.82
		DEP CARE REIMB	1,456.25
			2,056.07 *
617383	TRAN, JOHN D.	RENT SUBSIDY	623.00 *
617384-617385	VOID WARRANTS		
617386	FRYE SIGN CO	MOTOR VEHICLE MAINT	946.00
		SAFETY EQ/SUPPLIES	20.00
			966.00 *
617387	A1 SURVEILLANCE SYSTEMS LLC DBA A1 SECURITY CAMERAS	OTHER MAINT ITEMS	1,987.47
		GEN PURPOSE TOOLS	6,748.70
			8,736.17 *
617388	ACA COMPLIANCE SERVICES INC DBA CIMPLX COMPLIANCE SERVICES	OTHER PROF SERV	1,314.75 *
617389	ADAMSON POLICE PRODUCTS	MOTOR VEH PARTS	9,077.39 *
617390	ADVANCED IMAGING STRATEGIES	OFFICE SUPPLIES/EXP	220.32 *
617391	ALAN'S LAWN AND GARDEN CENTER INC.	REPAIRS-FURN/MACH/EQ	916.47
		MOTOR VEH PARTS	899.82
		HARDWARE	29.74
			1,846.03 *
617392	ALEXANDER'S MOBILITY SERVICES	OTHER PROF SERV	19,707.39 *
617393	ALL CITY MANAGEMENT SERVICES, INC.	CROSSING GUARD SERV	10,266.30 *
617394	ALLSTAR FIRE EQUIPMENT INC.	SAFETY EQ/SUPPLIES	1,145.52 *
617395	AMTECH ELEVATOR SERVICES	MAINT-SERV CONTRACTS	731.87 *
617396	CITY OF ANAHEIM DIVISION OF COLLECTION	MAINT OF REAL PROP	210.00 *

PAGE TOTAL FOR "\*" LINES = 82,789.39

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
617397	ANAHEIM HOUSING AUTHORITY COMMUNITY DEV.	MOBILITY INSP FEE	150.00 *
617398	ANAHEIM REGIONAL MEDICAL CENTER	MEDICAL SERVICES	1,500.00 *
617399	ANGELUS QUARRIES, INC.	AGGREGATES/MASONRY	116.64 *
617400	ARROW TOOLS FASTENERS & SAW INC	OTHER MAINT ITEMS	640.12 *
617401	DE PAR, INC. DBA ENTHALPY ANALYTICAL, INC.	OTHER PROF SERV	2,904.00 *
617402	AUTO PARTS DISTRIBUTOR	MOTOR VEH PARTS	11,930.95 *
617403	JOHN BANKSON	OTHER MAINT ITEMS	89.18 *
617404	BAY ALARM COMPANY	CONTRACTUAL SERV HARDWARE	2,140.00 3,827.00 5,967.00 *
617405	ANTHONY BIRMINGHAM WINDOW CLEANING	MAINT-SERV CONTRACTS	1,266.00 *
617406	BITHELL, INC.	MAINT OF REAL PROP	400.00 *
617407	BLAIS & ASSOCIATES, INC.	OTHER PROF SERV	2,822.71 *
617408	BOLSA NURSERY	TREES	227.88 *
617409	BOUND TREE MEDICAL LLC	MEDICAL SUPPLIES	2,203.37 *
617410	CDW-GOVERNMENT INC	NETWORKING SUPPLIES	1,904.12 *
617411	CSG CONSULTANTS, INC.	OTHER PROF SERV	9,730.00 *
617412	C.WELLS PIPELINE MATERIALS INC.	WHSE INVENTORY	1,587.60 *
617413	CALIF FORENSIC PHLEBOTOMY INC	MEDICAL SERVICES	5,108.25 *
617414	CAMERON WELDING SUPPLY	MOTOR VEH PARTS OTHER REC/CULT SUPP ASPHALT PRODUCTS	19.47 42.41 124.49 186.37 *
617415	CEMEX	OTHER MAINT ITEMS	1,221.96 *

PAGE TOTAL FOR "\*" LINES = 49,956.15

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
617416	CHEM PRO LABORATORY, INC	MAINT-SERV CONTRACTS	360.00 *
617417	CIVILTEC ENGINEERING INC	ENGINEERING SERVICES	3,356.25 *
617418	SUPPLYWORKS	WHSE INVENTORY	2,604.74
		JANITORIAL SUPPLIES	150.80
		HARDWARE	0.02
			2,755.56 *
617419	CLEANSTREET	STREET SWEEPING SERV	48,175.91 *
617420	COLEGROVE, JAMES E.	EMPL COMPUTER PURCH	2,500.00 *
617421	COMLOCK SECURITY GROUP COMMERCIAL LOCK & SECURITY	REPAIRS-FURN/MACH/EQ	900.36 *
617422	CONTINENTAL CONCRETE CUTTING	OTHER MAINT ITEMS	6,319.00
		GEN PURPOSE TOOLS	307.00
			6,626.00 *
617423	CONTROL AUTOMATION DESIGN	MAINT-SERV CONTRACTS	3,280.00 *
617424	CRON & ASSOCIATES TRANSCRIPTION, INC.	OTHER PROF SERV	1,817.12 *
617425	WM CURBSIDE, LLC AT YOUR DOOR	OTHER PROF SERV	1,920.00 *
617426	L.N.CURTIS & SONS	SAFETY EQ/SUPPLIES	572.79 *
617427	DENNIS GRUBB & ASSOCIATES, LLC	OTHER PROF SERV	800.00 *
617428	DIAMOND ENVIRONMENTAL SERVICES	NON-SPEC CONTR SERV	406.98 *
617429	ENTERPRISE FLEET MGMT INC CUSTOMER BILLINGS	VEHICLE OP LEASE	6,224.42 *
617430	EWING IRRIGATION PRODUCTS, INC.	PIPES/APPURTENANCES	279.39
		OTHER MAINT ITEMS	29.86
			309.25 *
617431	EXCLUSIVE AUTO DETAIL	MOTOR VEHICLE MAINT	1,052.00 *
617432	EXPERIAN INFO SOLUTIONS INC	OTHER PROF SERV	78.16 *

PAGE TOTAL FOR "\*" LINES = 81,134.80

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
617433	FEDERAL EXPRESS CORP	DELIVERY SERVICES	87.08 *
617434	FLOWERS BY CINA, INC.	OTHER AGR SUPPLIES	103.67 *
617435	FORD OF ORANGE	MOTOR VEH PARTS	1,980.71 *
617436	THE SHERWIN-WILLIAMS CO DBA FRAZEE PAINTS	OTHER MAINT ITEMS	120.38 *
617437	MONTROSE ENVIRONMENTAL GROUP ES ENGINEERING SERVICES	CONTRACTUAL SERV	3,957.50 *
617438	GPSIT	MAINT-SERV CONTRACTS	160.00 *
617439	REPUBLIC SERVICES #676	WATER REFUND	64.92
		TRASH/CLEANING SERV	610.16
			675.08 *
617440	GOLDEN OFFICE TRAILERS INC	LAND/BLDG/ROOM RENT	862.00 *
617441	HD SUPPLY WATERWORKS, LTD.	OTHER MAINT ITEMS	1,008.05 *
617442	HAENDIGES, ROBERT	TUITION REIMB	565.95 *
617443	HILLCO FASTENER WAREHOUSE	MOTOR VEH PARTS	14.10 *
617444	HILL'S BROS LOCK & SAFE INC	MAINT-SERV CONTRACTS	144.00
		OTHER MAINT ITEMS	31.32
		HARDWARE	685.38
			860.70 *
617445	APPLE ONE EMPLOYMENT SVS ACCOUNTS RECEIVABLE	TEMP AIDE SERVICES	3,501.09 *
617446	JOBS AVAILABLE	ADVERTISING	702.00 *
617447	KAWELL*, RHONDA C.	EMPL COMPUTER PURCH	2,267.73 *
617448	KELLY PAPER	WHSE INVENTORY	1,594.35 *
617449	KEYSER/MARSTON ASSOCIATES INC	OTHER PROF SERV	3,246.25 *
617450	KIM, LISA	FOOD	109.80 *

PAGE TOTAL FOR "\*" LINES = 21,816.44

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
617451	KNORR SYSTEMS, INC.	OTHER MINOR TOOLS/EQ	708.58 *
617452	LANGUAGE LINE SERVICES	TELEPHONE	376.94 *
617453	LAWSON PRODUCTS, INC.	MOTOR VEH PARTS	2,436.92 *
617454	MAULE, CHEYNE	L/S/A TRANSPORTATION	85.25 *
617455	MC MASTER-CARR SUPPLY CO	OTHER MINOR TOOLS/EQ	41.52 *
617456	MERCHANTS BLDG MAINT LLC	MAINT-SERV CONTRACTS	305.00 *
617457	MR. D'S AUTOMOTIVE	MOTOR VEHICLE MAINT	89.95 *
617458	NATIONAL BAND & TAG	OTHER MAINT ITEMS	2,400.00 *
617459	NATIONAL CONSTRUCTION RENTALS	OTHER RENTALS	755.92 *
617460	NEW IMAGE COMMERCIAL FLOORING	MAINT-SERV CONTRACTS	1,100.88 *
617461	NIAGARA PLUMBING	PIPES/APPURTENANCES	206.62
		OTHER MAINT ITEMS	10.99
			217.61 *
617462	R.J. NOBLE COMPANY	OTHER MAINT ITEMS	1,982.17 *
617463	OFFICEMAX INCORPORATED	OFFICE SUPPLIES/EXP	1,866.18 *
617464	OPPERMAN & SONS TRUCK	MOTOR VEH PARTS	606.81 *
617465	ORANGE COUNTY APPLIANCE PARTS	OTHER MINOR TOOLS/EQ	70.45 *
617466	ORANGE COUNTY FIRE PROTECTION	REPAIRS-FURN/MACH/EQ	52.00 *
617467	O.C. HOUSING AUTHORITY	MOBILITY INSP FEE	1,425.00 *
617468	ORANGE COUNTY STRIPING SERV	MAINT-SERV CONTRACTS	18,393.36 *
617469	ORANGE COUNTY WELDING, INC.	HARDWARE	1,650.00 *
617470	OVERLAND, PACIFIC & CUTLER INC.	RELOCATION SERVICES	337.50 *
617471	PACIFIC MEDICAL CLINIC	MEDICAL SERVICES	2,287.00 *

PAGE TOTAL FOR "\*" LINES = 37,189.04

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
617472	PACIFIC COAST CABLING, INC. PCC NETWORK SOLUTIONS	NETWORKING SERVICES	1,952.50 *
617473	DAY & NIGHT PLUMBING, INC	GEN PURPOSE TOOLS	754.50 *
617474	PASILLAS, CEL	PERMITS/OTHER FEES	80.00 *
617475	PARKHOUSE TIRE INC	WHSE INVENTORY	1,100.57 *
617476	PETTY CASH-COMMUNITY SERV	HOLIDAY TOY DRIVE	35.10
		TRUST FUND EXPEND	17.26
		OTHER RENTALS	1.62
		FaCT:YTH ENRCH	33.11
		ADMN/ENTRANCE FEE	18.00
		FaCT:PROGRAM EXP	32.03
		FaCT:CAC EXP	26.00
		FaCT:STGTH FTHRS	61.22
		FOOD	96.87
		OTHER FOOD ITEMS	188.04
		DATA PROCESSING SUPP	17.43
		OFFICE SUPPLIES/EXP	20.15
		OTHER MINOR TOOLS/EQ	6.03
		CRAFT SUPPLIES	6.90
		OTHER REC/CULT SUPP	152.37
			712.13 *
617477	PIVOT INTERIORS, INC.	OFFICE SUPPLIES/EXP	233.00 *
617478	PLUMBERS DEPOT INC.	REPAIRS-FURN/MACH/EQ	772.86
		GEN PURPOSE TOOLS	352.71
			1,125.57 *
617479	PRIME TRUCK TIRE SERVICE	MOTOR VEHICLE MAINT	685.00 *
617480	PRO-FORCE LAW ENFORCEMENT	MONITORED EQUIP	11,323.97 *
617481	PYRO-COMM SYSTEMS, INC.	MAINT-SERV CONTRACTS	135.00 *
617482	QUICK CRETE PRODUCTS CORP	OTHER MAINT ITEMS	3,040.71 *
617483	QUINN POWER SYSTEMS ASSOCIATES	REPAIRS-FURN/MACH/EQ	2,272.32 *
617484	RADI'S CUSTOM UPHOLSTERY	MOTOR VEH PARTS	1,350.00 *

PAGE TOTAL FOR "\*" LINES = 24,765.27

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
617485	REDFLEX TRAFFIC SYSTEMS, INC.	OTHER PROF SERV	31,900.00 *
617486	THE ORANGE COUNTY REGISTER	BOOKS/SUBS/CASSETTES	485.93 *
617487	RICOH USA, INC. DBA RICOH LEGAL DOC SERV	MAINT-SERV CONTRACTS	798.92 *
617488	RICOH USA, INC DBA RICOH LEGAL DOC SERV	MAINT-SERV CONTRACTS	8,341.63 *
617489	LASALLE GROUP INC. DBA RIDDLE APPLIANCE & TV SVC	MAINT-SERV CONTRACTS	113.75 *
617490	AT&T GLOBAL SERVICES INC	TELEPHONE	867.34 *
617491	S.C. YAMAMOTO, INC.	MAINT OF REAL PROP	333.33 *
617492	SCHAEFER, NICK	L/S/A TRANSPORTATION	7.75 *
617493	SHIELDS, HARPER, & CO	REPAIRS-FURN/MACH/EQ MOTOR VEH PARTS	1,265.71 575.42 1,841.13 *
617494	SHOETERIA	SAFETY EQ/SUPPLIES	100.00 *
617495	SHRED CONFIDENTIAL, INC.	OTHER PROF SERV	63.00 *
617496	SIMPSON CHEVROLET OF GG	MOTOR VEH PARTS	1,303.76 *
617497	SOUTH COAST EMERGENCY VEHICLE SERVICES	MOTOR VEH PARTS	2,190.93 *
617498	SOUTHERN COUNTIES LUBRICANTS LLC.	WHSE INVENTORY	1,776.06 *
617499	SPARKLETTTS	OFFICE EQUIP RENTAL BOTTLED WATER	183.86 65.06 248.92 *
617500	SUN BADGE COMPANY	UNIFORMS	170.47 *
617501	THOMSON REUTERS- WEST C/O WEST PAYMENT CENTER	DUES/MEMBERSHIPS	247.74 *
617502	HONEYWELL (FORMER TOTAL FIRE GROUP)	SAFETY EQUIP	11,859.02 *
617503	TRANSPORTATION STUDIES, INC.	ENGINEERING SERVICES	135.00 *
617504	TRAVER, JUSTIN	TUITION REIMB	1,684.00

PAGE TOTAL FOR "\*" LINES = 62,784.68

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
		TUITION/TRAINING	200.00
			1,884.00 *
617505	TRUCK & AUTO SUPPLY INC. TrucParCo	MOTOR VEH PARTS	4,026.99 *
617506	TURBO DATA SYSTEMS, INC	OTHER PROF SERV	4,735.71 *
617507	TURNOUT MAINTENANCE COMPANY	FIRE TURNOUTS REPAIR	575.10 *
617508	UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA	OTHER MAINT ITEMS	244.50 *
617509	UNIFIRST CORP	LAUNDRY SERVICES	2,668.94 *
617510	UNITED PARCEL SERVICE	DELIVERY SERVICES	138.19 *
617511	VULCAN MATERIALS COMPANY WESTERN DIVISION	ASPHALT PRODUCTS	423.05 *
617512	GRAINGER	WHSE INVENTORY	780.83
		MAINT SUPP-TRAFF SIG	416.10
			1,196.93 *
617513	GRAND VALLEY BANK-FRONTIER C/O WALLACE & ASSOC CONSULTING	ENGINEERING SERVICES	16,355.80 *
617514	WATERLINE TECHNOLOGIES, INC.	LABORATORY CHEMICALS	2,262.50 *
617515	WEST COAST ARBORISTS INC	TREE TRIMMING SERV	30,373.00 *
617516	WEST COAST SAND & GRAVEL	OTHER MAINT ITEMS	626.48 *
617517	FERGUSON ENTERPRISES, INC #1350	PIPES/APPURTENANCES	20.82
		OTHER MAINT ITEMS	14.18
			35.00 *
617518	WESTCOAST MUFFLER	REPAIRS-FURN/MACH/EQ	989.00 *
617519	WESTERN EXTERMINATOR	MAINT-SERV CONTRACTS	329.00 *
617520	WESTERN OIL SPREADING SERVICES	ASPHALT PRODUCTS	188.64 *
617521	WHITNEY, CARL	EMPL COMPUTER PURCH	2,500.00 *

PAGE TOTAL FOR "\*" LINES = 69,552.83



## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
617522	WINNERS CIRCLE TROPHY COMPANY	AWARDS/TROPHIES	669.60 *
617523	SANTA ANA COLLEGE CRIMINAL JUSTICE ACADEMIES	REGISTRATION FEES	979.80 *
617524	SWRCB ACCOUNTING OFFICE	PERMITS/OTHER FEES	56,390.00 *
617525	INFINITE PERIPHERALS INC.	MINOR FURN/EQUIP	567.48 *
617526	SAFARILAND, LLC	OTHER PROF SUPPLIES	1,797.38 *
617527	ASSOCIATED SOILS ENGINEERING, INC.	MAINT OF REAL PROP	3,860.00 *
617528	B & D TOWING	MOTOR VEHICLE MAINT	522.50 *
617529	FACTORY MOTOR PARTS CO	MOTOR VEH PARTS	608.39 *
617530	MONTROSE ENVIRONMENT CORP DBA SCEC	MAINT-SERV CONTRACTS	2,195.00 *
617531	DDL TRAFFIC INC	OTHER MAINT ITEMS	1,857.16 *
617532	OCGIA	DUES/MEMBERSHIPS	175.00 *
617533	NAHRO	DUES/MEMBERSHIPS	3,305.17 *
617534	CITY OF SANTA ANA FINANCE & MGMT SRVS AGENCY M-87	TRAFFIC SIGNAL MAINT	2,086.90 *
617535	TRELOAR, TOM	TRUST FUND EXPEND	300.00
		OTHER PROF SERV	100.00
			400.00 *
617536	CHEMEX INDUSTRIES	JANITORIAL SUPPLIES	430.25 *
617537	S. CALIF. MUNICIPAL ATHLETIC FEDERATION	OTHER PROF SERV	160.00 *
617538	LEAGUE OF CALIFORNIA CITIES	DUES/MEMBERSHIPS	32,914.00 *
617539	GFOA	TUITION/TRAINING	925.00 *
617540	E.G. BRENNAN & CO., INC.	MAINT-SERV CONTRACTS	375.00 *
617541	CCAI	DUES/MEMBERSHIPS	335.00 *
617542	NGUYEN, CHIEU BACH	TUITION REIMB	1,511.89 *

PAGE TOTAL FOR "\*" LINES = 112,065.52

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
617543	O'REILLY AUTO PARTS	MOTOR VEH PARTS	3,162.73 *
617544	CITY OF HUNTINGTON BEACH	IMPORT WTR-WOCWB	6,163.50 *
617545	MAJOR LEAGUE SOFTBALL, INC.	OTHER PROF SERV	70.00 *
617546	VORTEX INDUSTRIES INC	MAINT OF REAL PROP	362.50
		MAINT-SERV CONTRACTS	384.30
			746.80 *
617547	NATURE'S GROWERS NURSERY	SEEDS/PLANTS	131.76 *
617548	VERITIV OPERATING COMPANY	WHSE INVENTORY	1,447.53 *
617549	LEXISNEXIS RISK SOLUTIONS	BOOKS/SUBS/CASSETTES	243.75 *
617550	COSTAR GROUP, INC.	OTHER PROF SERV	431.35 *
617551	OCSD FINANCIAL MNGNT DIV	SEWER FEES	40,207.43 *
617552	PINKSTON, RICHARD	EMPL COMPUTER PURCH	2,389.97 *
617553	ECOLOGICAL FERTIGATION, INC.	MAINT OF REAL PROP	830.00 *
617554	ANAHEIM FENCE CO.	NON-SPEC CONTR SERV	2,073.00 *
617555	GMS AUTOGLASS	REPAIRS-FURN/MACH/EQ	436.84
		MOTOR VEH PARTS	256.61
			693.45 *
617556	KAYE'S KITCHEN	FOOD	110.00 *
617557	A-THRONE CO., INC.	OTHER RENTALS	31.75 *
617558	AMERINATIONAL COMMUNITY SERVICES, INC.	OTHER PROF SERV	176.57
		NSP HOME IMP GRANT	51.30
			227.87 *
617559	BRUCE E. MIHELICH LLC DBA FULLER TRUCK ACCESSORIES	MOTOR VEH PARTS	2,792.40 *
617560	BATTERY SYSTEMS INC.	MOTOR VEH PARTS	2,686.61 *

PAGE TOTAL FOR "\*" LINES = 64,439.90

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
617561	LT PROPERTIES	LAND/BLDG/ROOM RENT	15,406.50 *
617562	CITY OF NEWPORT BEACH	TUITION/TRAINING	60.00 *
617563	AMERICAN ASPHALT SOUTH, INC.	MAINT-SERV CONTRACTS	2,125.20 *
617564	VIETNAMESE AMERICAN MEDIA CORP DBA VIEN DONG DAILY NEWS	ADVERTISING	350.00 *
617565	GRIMCO, INC.	SIGNS/FLAGS/BANNERS	124.31 *
617566	ROCKWELL ENGINEEING & EQUIPMENT	GEN PURPOSE TOOLS	1,778.80 *
617567	SOCAL SALES & MARKETING	OTHER MOTOR VEH SUPP	184.60 *
617568	DEPARTMENT OF JUSTICE	LIFESCAN FEE-DOJ	934.00 *
617569	KETCH-ALL COMPANY	CANINE EXPENSES	972.87 *
617570	RACHEL BULOSAN	PROJECT REAPPROP	250.00 *
617571	SCHAFER CONSULTING, INC.	OTHER PROF SERV	3,385.00 *
617572	ARROW INTERNATIONAL, INC.	MEDICAL SUPPLIES	2,604.41 *
617573	GENUINE PARTS COMPANY	MOTOR VEH PARTS	586.79 *
617574	FAIR HOUSING FOUNDATION	CONTRACTUAL SERV	5,256.16 *
617575	AIM ASSET PROPERTY MANAGEMENT, INC.	OTHER PROF SERV	2,083.25 *
617576	UNITED RENTALS NORTHWEST INC.	AGGREGATES/MASONRY	615.87 *
617577	SHAMROCK SUPPLY COMPANY, INC	WHSE INVENTORY	1,442.22 *
617578	TOPAZ ALARM CORP	OTHER PROF SERV	150.00 *
617579	YO-FIRE SUPPLIES	OTHER MAINT ITEMS	964.03 *
617580	SEAVCO IVR SEAVER MOTORCYCLES	REPAIRS-FURN/MACH/EQ	1,424.94 *
617581	MORSE WATCHMANS, INC	OTHER MAINT ITEMS	1,714.32 *
617582	ADORAMA	CAMERAS	235.00 *

PAGE TOTAL FOR "\*" LINES = 42,648.27

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
617583	AMERICAN INTERNET SERVICES, LLC	NETWORK COMMUNICT	669.56 *
617584-617586	VOID WARRANTS		
617587	GRP2 UNIFORMS, INC KEYSTONE UNIFORMS, OC	UNIFORMS SAFETY EQ/SUPPLIES	31,150.57 792.58 31,943.15 *
617588	SO CAL INDUSTRIES	OTHER RENTALS	593.42 *
617589	N.E.A.D., INC. DBA NEAD/MYCIVIC	OTHER PROF SERV	900.00 *
617590	SOUTHERN COMPUTER WAREHOUSE, INC	OFFICE SUPPLIES/EXP MINOR FURN/EQUIP	155.40 1,409.85 1,565.25 *
617591	LANDS' END BUSINESS OUTFITTERS	UNIFORMS	63.87 *
617592	HEARTSMART.COM	MEDICAL EQUIPMENT	1,317.00 *
617593	ALPHA TINT	MOTOR VEH PARTS	150.00 *
617594	VERONICA AVILA	TUITION REIMB	3,000.00 *
617595	PD PLAY	OTHER MAINT ITEMS	1,946.67 *
617596	AUTONATION FORD TUSTIN	MOTOR VEHICLE MAINT	120.00 *
617597	DATABLAZE LIGHTING UP WIRELESS DATA	OTHER PROF SERV	79.90 *
617598	ROSEMEAD OIL PRODUCTS INC.	WHSE INVENTORY	120.20 *
617599	VODIE'S WHEEL ALIGNMENT & BRAKES, INC.	MOTOR VEHICLE MAINT	125.00 *
617600	ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE, INC	14/15 SLESF	2,500.00 *
617601	CA SHOPPING CART RETRIEVAL CORP	OTHER PROF SERV	2,083.00 *
617602	LACEY CUSTOM LINENS, INC.	LAUNDRY SERVICES	169.43 *
617603	GG UNIFIED SCHOOL DISTRICT	LAND/BLDG/ROOM RENT	419.72 *
617604	PRINT MASTERS 85	ADVERTISING	1,130.91 *

PAGE TOTAL FOR "\*" LINES = 48,897.08

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
617605	COUNTY OF ORANGE TREASURER-TAX COLLECTOR	FORENSIC SERV	38,874.67 *
617606	UNIVERSAL CONCRETE BREAKERS	MAINT-SERV CONTRACTS	420.00 *
617607	BILL'S SOUND & SECURITY	OTHER PROF SERV	150.00 *
617608	NATIONAL CREDIT REPORTING	OTHER PROF SERV	102.65 *
617609	VALENCIA, ARMANDO	TRUST FUND EXPEND	300.00 *
617610	JTB SUPPLY CO INC	TRAFFIC SIGNAL MAINT	1,080.00 *
617611	IACP INTL ASSOC CHIEFS OF POLICE	DUES/MEMBERSHIPS	150.00 *
617612	JONES, STEVE	MINOR FURN/EQUIP	282.29 *
617613	FLEMING ENVIRONMENTAL INC.	MAINT-SERV CONTRACTS	405.00 *
617614	PHAM, ANH	MILEAGE REIMB	53.84 *
617615	FRANK, JEAN	WATER CLOSING BILL REFUND	58.79 *
617616	SMITH, CARRIE	WATER CLOSING BILL REFUND	44.23 *
617617	HITCHENS, GERALD	WATER CLOSING BILL REFUND	98.72 *
617618	LAJOIE, NICOLE E	WATER CLOSING BILL REFUND	13.91 *
617619	BURKE KNOTT BUSINESS CTR ASSOC	WATER CLOSING BILL REFUND	15.40 *
617620	NGUYEN, TRANG D	WATER CLOSING BILL REFUND	45.14 *
617621	NGUYEN, TOAN	WATER CLOSING BILL REFUND	13.50 *
617622	MOSHER, SHEILA	WATER CLOSING BILL REFUND	5.95 *
617623	DAO, KHANH	WATER CLOSING BILL REFUND	37.86 *
617624	NGUYEN, TRANG	WATER CLOSING BILL REFUND	40.55 *
617625	TRUONG, LIN	WATER CLOSING BILL REFUND	24.42 *
617626	LEWIS, GABRIEL & NATALIA	WATER CLOSING BILL REFUND	37.88 *

PAGE TOTAL FOR "\*" LINES = 42,254.80

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
617627	LE, LAN	WATER CLOSING BILL REFUND	11.95 *
617628	HARRIS, KATHLEEN	WATER CLOSING BILL REFUND	14.03 *
617629	HY, IVAN	WATER CLOSING BILL REFUND	29.11 *
617630	LAM, MAITRINH	WATER CLOSING BILL REFUND	51.89 *
617631	JOO, MYOUNG	WATER CLOSING BILL REFUND	4.27 *
617632	BONILLA, SONNIA	WATER CLOSING BILL REFUND	52.21 *
617633	NGUYEN, THIERY THANH	WATER CLOSING BILL REFUND	50.29 *
617634	PREFERRED REAL ESTATE MGMT	WATER CLOSING BILL REFUND	52.71 *
617635	NGUYEN, HA	WATER CLOSING BILL REFUND	45.14 *
617636	TRAN, VIVIAN	WATER CLOSING BILL REFUND	12.18 *
617637	GARCIA, EMMANUEL	WATER CLOSING BILL REFUND	44.98 *
617638	PHAM, VINCENT	WATER CLOSING BILL REFUND	18.17 *
617639	HUYNH, MINH	WATER CLOSING BILL REFUND	51.68 *
617640	PICKARD, DAVID % REMCO	WATER CLOSING BILL REFUND	53.71 *
617641	PHAM, HONG	WATER CLOSING BILL REFUND	2.07 *
617642	CHUNG, SAVY	WATER CLOSING BILL REFUND	45.37 *
617643	NGUYEN, VAN & BIEN	WATER CLOSING BILL REFUND	3.21 *
617644	CALDERON, FELIPE	WATER CLOSING BILL REFUND	61.08 *
617645	QUINTANA, AUREL	WATER CLOSING BILL REFUND	44.10 *
617646	NGUYEN, NATALIE	WATER CLOSING BILL REFUND	81.43 *
617647	SELDERS, JACKIE	WATER CLOSING BILL REFUND	143.09 *
617648	TONDO, CHRISTINA	WATER CLOSING BILL REFUND	54.70 *

PAGE TOTAL FOR "\*" LINES = 927.37

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
617649	DANG, DOAN TRANG	WATER CLOSING BILL REFUND	110.25 *
617650	LA PLANT, TOM	WATER CLOSING BILL REFUND	176.86 *
617651	NGUYEN, VAN THI	WATER CLOSING BILL REFUND	51.83 *
617652	VO, ASIA	WATER CLOSING BILL REFUND	2.72 *
617653	POKKAMTHANAM, SUNEENA	WATER CLOSING BILL REFUND	65.54 *
617654	HO, SON	WATER CLOSING BILL REFUND	64.37 *
617655	HOUSH, ROBERT	WATER CLOSING BILL REFUND	30.88 *
617656	SMITH, DAVID L.	WATER CLOSING BILL REFUND	14.85 *
617657	BARRY SAYWITZ PROP TWO,LP	RENT SUBSIDY	305.00 *
617658	NGUYEN,MICHELLE	RENT SUBSIDY	528.00 *
617659	TRAN, TIM	RENT SUBSIDY	1,135.00 *
617660	KAMAT, JAIDEEP	RENT SUBSIDY	2,046.00 *
W1742	DELTA CARE USA ATTN: ACCTS RECEIVABLE	SELF-INS ADMN	23,333.33 *
W1743	DELTA DENTAL OF CALIFORNIA	SELF-INS CLAIMS	20,970.50 *
W1744	CALIFORNIA STATE DISBURSEMENT UNIT	WAGE ATTACHMENT	4,242.64 *
W1745	DELTA DENTAL OF CALIFORNIA	SELF-INS CLAIMS	20,574.40 *
W1746	CITY OF GARDEN GROVE-LIABILITY ACCT	LEGAL FEES	46,286.87
		MUN CLAIMS BD PMT	2,787.28
			49,074.15 *

PAGE TOTAL FOR "\*" LINES = 122,726.32

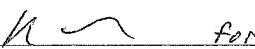
## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 01/24/17

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W1747	KS STATE BANK	INTEREST COSTS	348.00
		LONG TERM DEBT	7,529.08
			7,877.08 *
W1748	LINCOLN FINANCIAL GROUP	LIFE INS PREMIUM	7,764.26 *
W1749	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	PENSION PAYMENT	83,407.68 *
W1750	CALIFORNIA STATE DISBURSEMENT UNIT	WAGE ATTACHMENT	4,242.64 *
W1751	DELTA DENTAL OF CALIFORNIA	SELF-INS ADMN	5,746.20 *
W1752	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	HEALTH INSURANCE	684,550.98 *
W1753	ANAHEIM/ORANGE COUNTY VISITOR & CONVENTION BUREAU	AMT DUE VCB	152,192.16 *
W1754	DELTA DENTAL OF CALIFORNIA	SELF-INS ADMN	2,891.94 *
W1755	LINCOLN FINANCIAL GROUP	LIFE INS PREMIUM	8,573.20 *
W1756	VISION SERVICE PLAN	VISION INSURANCE	3,701.49 *
W1757	US BANK TRUST N.A.	BANK FEES	2,770.00 *
W1758	ANAHEIM/ORANGE COUNTY VISITOR & CONVENTION BUREAU	AMT DUE VCB	121,056.69 *
W1762	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	PENSION PAYMENT	984,241.73 *
W1763	SUCCESSOR AGENCY WIRE		
W1764	SUCCESSOR AGENCY WIRE		

PAGE TOTAL FOR "\*" LINES = 2,069,016.05

FINAL TOTAL 4,170,422.34 \*

DEMANDS #617283 - 617660 AND WIRES W1742 - W1764 AS PRESENTED IN THE WARRANT REGISTER SUBMITTED TO THE GARDEN GROVE CITY COUNCIL JANUARY 24, 2017, HAVE BEEN AUDITED FOR ACCURACY AND FUNDS ARE AVAILABLE FOR PAYMENT THEREOF

  
KINGSLEY C. OKEREKE - FINANCE DIRECTOR



180612	AMANDA POLLOCK	(VOID)	-1158.27	180729	- 180731	(VOID)	0.00
180732	KARL J HILL		15443.20	180733	MICHAEL L MARTIN		16365.89
180734	HOWARD R BROWN		19491.26	180735	MICHAEL L MARTIN		840.00
180736	ERIC P STOKER		8821.65	180737	AMANDA M POLLOCK		1158.52
180738	STEPHANIE L KLOPFENSTEIN		154.15	180739	MICHAEL J MC CLELLAN		2396.22
180740	JUDITH A MOORE		1846.55	180741	DIANE BELAIR		1528.42
180742	AMANDA M POLLOCK		1180.89	180743	JO ANNE M CHUNG		2160.94
180744	TIMOTHY E THRONE		437.79	180745	THOMAS E BUTTERS		1964.89
180746	CHRIS M VERES		2564.29	180747	ERIC M ESPINOZA		663.84
180748	ROBERT R MOUNGEY		290.87	180749	MICHAEL F ROCHA		1835.83
180750	JAVIER RODRIGUEZ		891.54	180751	DANIEL C MOSS		966.67
180752	YUKIYOSHI NAKAGAWA		1398.11	180753	SOUHELIA K GOUNTOUMA		1491.26
180754	ANA E PULIDO		3202.76	180755	STEPHANIE AMBRIZ		150.15
180756	VALERIA J BARON		97.14	180757	DEANNA M CHUMACERO		1026.59
180758	GISELL L CRUZ		231.30	180759	STEVEN E GOMEZ		499.40
180760	KELLY L HOWENSTEIN		319.58	180761	GABRIELA VARELA		389.27
180762	NICHOLAS S SEELEY		143.13	180763	ROBERT J GIFFORD		2763.63
180764	ADAM C NIKOLIC		2708.82	180765	ERIC T RUZIECKI		2311.33
180766	ISAAC DAVILA		347.78	180767	MICHELLE N ESTRADA-MONSA		143.81
180768	JULIAN TAPIA		317.55	180769	RANDY L TUCKER		995.53
180770	JOAN M CEPLIUS		430.88	180771	BRIAN M JR. CLASBY		2830.27
180772	O.C.E.A. GENERAL		2002.64	180773	O.C.E.A.		989.95
180774	COMMUNITY HEALTH CHARITI		50.00	180775	GARDEN GROVE POLICE ASSO		1430.00
D305960	KRIS C BEARD		210.84	D305961	PHAT T BUI		1.75
D305962	STEVEN R JONES		108.35	D305963	DIEDRE THU HA NGUYEN		194.06
D305964	KIM B NGUYEN		191.04	D305965	JOHN R O'NEILL		206.35
D305966	PAMELA M HADDAD		1508.52	D305967	SHAWN S PARK		1959.14
D305968	SCOTT C STILES		6608.34	D305969	MARIA A STIPE		4848.98
D305970	MEENA YOO		1860.68	D305971	KATHLEEN BAILOR		192.19
D305972	DENISE KEHN		1957.56	D305973	MARITZA PIZARRO		1641.32
D305974	TERESA L POMEROY		2674.46	D305975	SHAUNA J CARRENO		1885.50
D305976	TERESA G CASEY		1260.71	D305977	VIRGINIA DELGADO		1583.66
D305978	DANNY HUYNH		3185.02	D305979	VILMA C KLOESS		1737.49
D305980	IVY LE		1750.04	D305981	TAMMY LE		1608.60
D305982	LINDA MIDDENDORF		2415.67	D305983	ROSALINDA MOORE		1233.42
D305984	MARIA A NAVARRO		2103.47	D305985	PHUONG VIEN T NGUYEN		2362.64
D305986	QUANG NGUYEN		2231.91	D305987	TINA T NGUYEN		1950.63
D305988	THYANA T PHI		2107.58	D305989	MARIA RAMOS		1988.18
D305990	TANYA L TO		1573.30	D305991	CUONG K TRAN		1943.38
D305992	ELAINE TRUONG		1273.28	D305993	THANH-NGUYEN VO		1409.03
D305994	SYLVIA GARCIA		1931.35	D305995	KINGSLEY C OKEREKE		4959.19
D305996	ANN CAO EIFERT		2336.12	D305997	HEIDI M JANZ		2201.75
D305998	CHRISTI C MENDOZA		517.71	D305999	DEBORAH A POWELL		1511.26
D306000	MARGARITA A ABOLA		1694.02	D306001	ELLIS EUN ROK CHANG		2605.64
D306002	JANET J CHUNG		1853.05	D306003	CLAUDIA FLORES		3019.31
D306004	RHONDA C KAWELL		2848.00	D306005	ROBERT W MAY		1278.24
D306006	SHAWNA A MCDONOUGH		1877.54	D306007	ALEXANDER TRINIDAD		2471.82
D306008	LIGIA ANDREI		1302.02	D306009	ARIANA B BAUTISTA		1427.79

\*\*\*\* PAGE TOTAL = 199717.92

D306010	KAREN J BROWN	671.45	D306011	CHERYLE LYNN EICHEL	245.76
D306012	SUE J GULLEY	503.44	D306013	JEFF N KURAMOTO	2079.09
D306014	CHELSEA E LUKAS	1448.24	D306015	EDWARD E MARVIN JR	1613.37
D306016	ANGELA M MENDEZ	1613.52	D306017	MONICA A NEELY	6314.03
D306018	JENNIFER L PETERSON	2784.75	D306019	ANH PHAM	1418.32
D306020	EVA RAMIREZ	1623.05	D306021	JAIME F CHAVEZ	1370.61
D306022	GARY F HERNANDEZ	1534.53	D306023	SANDRA E SEGAWA	3038.58
D306024	ALANA R CHENG	2099.22	D306025	LISA L KIM	3710.08
D306026	JAYME K AHLO	1888.89	D306027	SAEED R AMIRAZIZI	3317.97
D306028	MICHAEL G AUSTIN	2343.76	D306029	TODD C HARTWIG	2169.04
D306030	AARON J HODSON	1881.34	D306031	JERROLD R HOLSTEIN	979.47
D306032	DONALD E LUCAS	2515.70	D306033	LIZABETH C VASQUEZ	1580.26
D306034	DANIEL A WINDHAM	2326.98	D306035	ISABELLA C ZANDVLIET	1860.82
D306036	CHRISTOPHER CHUNG	2294.15	D306037	PAUL GUERRERO	2536.80
D306038	HUONG Q LY	453.01	D306039	LEE W MARINO	3318.88
D306040	MARIA L MEDRANO	1862.17	D306041	MARIA C PARRA	2262.09
D306042	ERIN WEBB	2716.58	D306043	GREG BLODGETT	2513.73
D306044	MONICA COVARRUBIAS	2391.87	D306045	GRACE E LEE	2188.27
D306046	AMEENAH ABU-HAMDIYYAH	1679.82	D306047	JULIE A ASHLEIGH	1733.83
D306048	RITA M CRAMER	1891.99	D306049	RALPH V HERNANDEZ	2014.45
D306050	JIMMY NGUYEN	1712.39	D306051	ROY N ROBBINS	2597.10
D306052	NIDA R WATKINS	2389.27	D306053	ALLISON D WILSON	1768.01
D306054	MICHAEL C BOS	2135.50	D306055	DANIEL J CANDELARIA	4000.23
D306056	KAMYAR DIBAJ	289.10	D306057	NICOLAS C HSIEH	2780.77
D306058	ROSEMARIE JACOT	1897.23	D306059	NAVIN B MARU	3182.22
D306060	MICHAEL F SANTOS	2514.70	D306061	MARK P UPHUS	3082.03
D306062	JOSE A VASQUEZ	1749.28	D306063	ANA G VERGARA NEAL	1986.86
D306064	DAI C VU	3353.88	D306065	KHANG L VU	2285.56
D306066	JOSHUA J ARIONUS	2322.62	D306067	JAN BERGER	1963.78
D306068	ROBERT P BERMUDEZ	2649.57	D306069	TIM P CANNON	3708.92
D306070	MYUNG J CHUN	2876.25	D306071	CARINA M DAN	242.19
D306072	RYAN H DAVIS	416.04	D306073	RONALD W DIEMERT	1790.53
D306074	CHRIS N ESCOBAR	3519.85	D306075	JASON A FERTAL	1581.13
D306076	ALEJANDRO GONZALEZ	2275.79	D306077	MICHAEL J GRAY	1007.70
D306078	LARRY GRIFFIN	1470.00	D306079	ROBERT ALAN HAENDIGES	1833.65
D306080	RYAN S HART	1475.55	D306081	ROBERT M HIGGINBOTHAM	1168.42
D306082	EDWARD A HUY	2266.00	D306083	VIDAL JIMENEZ	1919.14
D306084	SAMUEL K KIM	3595.69	D306085	SHAN L LEWIS	1588.13
D306086	REBECCA PIK KWAN LI	2824.88	D306087	SCOTT T LOWE	5016.49
D306088	DAVID MA'AE	1580.92	D306089	TYLER MEISLAHN	1632.54
D306090	JESSE K MONTGOMERY	2032.82	D306091	STEVEN J MOYA JR	1765.95
D306092	BASIL G MURAD	2923.04	D306093	KIRK L NATLAND	689.61
D306094	CORNELIU NICOLAE	2701.14	D306095	ANDREW I ORNELAS	1449.56
D306096	DAVID A ORTEGA	5831.86	D306097	CELESTINO J PASILLAS	3233.20
D306098	WILLIAM F PEARSON	1995.67	D306099	LES A RUITENSCHILD	3051.11
D306100	JONATHAN RUIZ	1621.30	D306101	MODESTO R SALDANA	1760.57
D306102	ALEXIS SANTOS	1350.31	D306103	ADRIAN M SARMIENTO	2288.16
D306104	ALBERT TALAMANTES JR	619.17	D306105	MINH K TRAN	2156.03

\*\*\*\* PAGE TOTAL = 206709.32

D306106	ALEJANDRO VALENZUELA JR	1037.05	D306107	ALEJANDRO N VALENZUELA	1624.31
D306108	KATHLEEN N VICTORIA	754.39	D306109	RONALD J WOLLAND	1445.49
D306110	VICTOR K YERGENSEN	1685.36	D306111	ALICE K FREGOSO	3223.11
D306112	RAQUEL K MANSON	2331.29	D306113	CAROLYN E MELANSON	3087.86
D306114	WILLIAM E MURRAY JR	6989.45	D306115	EMILY H TRIMBLE	1453.30
D306116	ALFRED J AGUIRRE	3547.25	D306117	ANTHONY U AGUIRRE	464.98
D306118	RODOLPHO M BECERRA	1434.13	D306119	HELEN L CAMDEN	538.52
D306120	EDGAR A CANO	673.04	D306121	ALBERT J CARRISOZA	1598.13
D306122	MARRAY R CHAPMAN	559.37	D306123	VINCENT L DE LA ROSA	1686.69
D306124	HECTOR M ESPINOZA	1463.02	D306125	ROBERT J FRANCO	639.84
D306126	MAURICIO S GARCIA	2140.38	D306127	GLORIA GAW	1878.32
D306128	RICHARD R GOSSELIN	2991.87	D306129	HERMILO HERNANDEZ	1357.05
D306130	DARNELL D JERRY	478.63	D306131	KEANU M KALOLO	1330.02
D306132	BRENT KAYLOR	1877.62	D306133	BEN A KOSKY	1478.53
D306134	MARK W LADNEY	2072.33	D306135	RAUL LEYVA	4399.99
D306136	ANTONIO R MARTIN	2059.09	D306137	ROBERT P MCLOGAN	338.49
D306138	RIGOBERTO MENDEZ	1897.94	D306139	JON A MIHAILA	381.74
D306140	STEVEN T ORTIZ	1789.41	D306141	RICHARD L PINKSTON	1613.90
D306142	BRADLEY J POINDEXTER	630.33	D306143	STEVE J TAUANU'U	2486.70
D306144	SUSAN VITALI	761.81	D306145	STEPHANIE A WASINGER	495.57
D306146	JEFFREY G CANTRELL	1800.67	D306147	THOMAS C COUNTS	70.82
D306148	JAMES CUNNINGHAM	4946.80	D306149	EARNEST L DOMINGUEZ	759.62
D306150	JULIA ESPINOZA	1084.19	D306151	ALBERT R EURS II	2223.44
D306152	CECELIA A FERNANDEZ	1068.13	D306153	CONRAD A FERNANDEZ	860.27
D306154	JORGE GONZALEZ	1017.79	D306155	MICHAEL R GREENE	1732.23
D306156	RONALD D GUSMAN	799.79	D306157	GLORIA A HARO	1083.03
D306158	ERIC W JOHNSON	900.77	D306159	URIEL MACIAS	776.14
D306160	KHUONG NGUYEN	1083.03	D306161	VIRGINIA NICHOLS	810.90
D306162	ALEJANDRO ORNELAS	895.24	D306163	WILLIAM R PICKRELL	2286.23
D306164	CHRISTOPHER L RELEFORD	1234.06	D306165	DELFRADO C REYES	1083.03
D306166	RAFAEL ROBLES	1930.26	D306167	RODERICK THURMAN	1467.08
D306168	EVARISTO VERA	1503.71	D306169	RICHARD L WILLIAMS	1482.55
D306170	ANSELMO AGUIRRE	1896.61	D306171	CHRISTOPHER L ALLEN	1660.98
D306172	JOHN M BRUNING	588.80	D306173	PHILLIP J CARTER	2180.46
D306174	RICK L DUVALL	1661.13	D306175	AARON R HANSEN	1584.65
D306176	PATRICIA CLAIR HAYES	2118.70	D306177	HUY HOA HUYNH	1918.00
D306178	BRYAN D KWIATKOWSKI	1254.19	D306179	BRANDON S NUNES	505.46
D306180	CHRISTOPHER B PRUDHOMME	332.89	D306181	ROLANDO QUIROZ	1327.89
D306182	TODD R REED	1552.71	D306183	ESTEBAN H RODRIGUEZ	559.67
D306184	RONALD E SANDIFORTH	1907.59	D306185	LUIS A TAPIA	1999.32
D306186	MICHAEL W THOMPSON	2064.80	D306187	WILLIAM J WHITE	1867.70
D306188	JEREMY J GLENN	444.12	D306189	JESSE GUZMAN	2098.87
D306190	BRETT A MEISLAHN	1680.50	D306191	MARK E MONSON	2109.26
D306192	STEPHEN D SUDDUTH	2132.09	D306193	TIMOTHY WALLINGFORD	3169.29
D306194	HILLARD J WILLIAMS	1087.24	D306195	ALBERT J HOLMON III	3148.20
D306196	ALLEN L SERNA	2172.17	D306197	VICTOR T BLAS	2267.35
D306198	FRANK X DE LA ROSA	2061.48	D306199	ERVIN DUBRUL	3943.95
D306200	JOSE GOMEZ	1731.74	D306201	BRENT W HAYES	2495.05

\*\*\*\* PAGE TOTAL = 159118.94

D306202	FRANK D HOWENSTEIN	2068.59	D306203	ALLEN G KIRZHNER	1829.71
D306204	KEON DONTRAY NELSON	2176.91	D306205	STEPHEN PORRAS	2275.36
D306206	JESSE VIRAMONTES	1471.27	D306207	JOHN ZAVALA	2712.65
D306208	VERONICA AVILA	923.23	D306209	JEFFREY P DAVIS	2012.42
D306210	BRITTANI L JOHNSON	1484.51	D306211	NOELLE N KIM	1549.22
D306212	MISSY M MENDOZA	406.61	D306213	MARIE L MORAN	2242.51
D306214	KRISTY H THAI	2001.97	D306215	EDWARD D AMBRIZ GARCIA	141.49
D306216	GABRIELLA E BALANDRAN	114.81	D306217	JOSUE BARREIRO MENDOZA	455.66
D306218	NICHOLAS J BARRETT	80.85	D306219	ALEXIS R BAUTISTA-MOYANO	119.22
D306220	ALEJANDRA CAMARENA	49.17	D306221	RACHEL M CAMARENA	1777.19
D306222	RENE CAMARENA	1638.87	D306223	MARTI CARROLL	1534.23
D306224	VICTORIA M CASILLAS	2665.03	D306225	CYNTHIA A CHEW	1700.85
D306226	JULIE T COTTON	726.96	D306227	KENNETH E CUMMINGS	588.70
D306228	KEVIN J CUMMINGS	295.00	D306229	JEANETTE A DEMENECES	345.33
D306230	GRISELL V EVERASTICO	402.17	D306231	JARED D GARCIA	19.67
D306232	VANESSA L GARCIA	128.06	D306233	JACOB R GRANT	1758.09
D306234	KIMBERLY K HOLER	366.24	D306235	CAROLINA HONSTAIN	239.67
D306236	KIMBERLY HUY	4206.47	D306237	ANA C IZQUIERDO	486.23
D306238	MARITZA JIMENEZ	167.17	D306239	MARK ANTHONY LOPEZ	128.06
D306240	JOHNNY LUNA	197.27	D306241	ELAINE M MA'AE	2388.63
D306242	JESUS MEDINA	1608.43	D306243	JUAN MEDINA	1828.21
D306244	NICHOLAS M MEDINA	362.91	D306245	MONSERRAT MENDOZA ALVARE	315.91
D306246	JOHN A MONTANCHEZ	3046.31	D306247	BRIANNA M MOORE	951.72
D306248	KIRSTEN K NAKAISHI	104.89	D306249	GINA D NECCO	365.49
D306250	JACOB J NEELY	254.20	D306251	NOEL N NICHOLAS	934.29
D306252	JENNIFER GODDARD NYE	2262.90	D306253	GABRIELA O'CADIZ-HERNAND	2781.63
D306254	LORI OCHOA	2456.10	D306255	CHRISTIAN PANGAN	499.81
D306256	JANET E PELAYO	2593.66	D306257	LEGEND PHAM	83.58
D306258	ARIELLE PICKRELL	68.31	D306259	SUGEIRY REYNOSO	2256.59
D306260	PAIGE L ROBINSON	333.58	D306261	MARINA Y ROMERO	1565.72
D306262	MONICA K ROMO	25.95	D306263	RICARDO SALDIVAR	435.24
D306264	JONATHAN M SANTOS	29.50	D306265	LARISSA E SANTOS	114.81
D306266	DANA MARIE SAUCEDO	2181.27	D306267	EMERON J SCHLUMPBERGER	886.94
D306268	KRISTOF A SIERRA	167.82	D306269	ARTURO TORRES ROBLES	98.33
D306270	MIRANDA M TORRES	154.57	D306271	KENNETH P TRAVIS III	236.00
D306272	CLAUDIA VALDIVIA	2596.53	D306273	JEFFREY VAN SICKLE	1896.81
D306274	JOSEFINA L VELAZQUEZ	195.02	D306275	DAISY O VENCES	352.36
D306276	JOSHUA VENCES	320.32	D306277	PAUL E VICTORIA	1145.69
D306278	DAVID M WILMES	377.57	D306279	LUCIA MEDINA-WHITTAKER	601.90
D306280	MILLIE MEROLA	1999.81	D306281	SVETLANA MOURE	1948.14
D306282	THOMAS R SCHULTZ	3200.26	D306283	RANDY ABRAHAMSON	5187.00
D306284	ALBERTO ACOSTA	7723.34	D306285	ANTHONY R ACOSTA	1924.43
D306286	JOHN D BARANGER III	3030.38	D306287	LUCAS B BAUER	3222.64
D306288	BRADLEY D BELL	2038.01	D306289	JERRY R BRENNEMAN	4979.56
D306290	GUY BROWN	2627.72	D306291	JOSE J CAMBEROS	2397.48
D306292	DANIEL L CLEARWATER	3412.12	D306293	YVES G CLERMONT	2432.77
D306294	JOE W CRAWFORD	4189.20	D306295	TIMOTHY A CRAWFORD	3047.82
D306296	JUSTIN D DOYLE	4324.85	D306297	MICHAEL G ECKHARDT JR	3491.58

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D306298	DAVID W EDNOFF	3738.70	D306299	STEVE P FELLNER	3741.11
D306300	JAMES L GABBARD	3564.07	D306301	DREW R GARCIA	2789.12
D306302	JEFF W HANNA	2729.31	D306303	MATTHEW R HENSHAW	5405.38
D306304	MICHAEL L JACOBS	3026.96	D306305	WILLIAM R JAEGER	1628.72
D306306	SCOTT A KUHLMAN	4239.04	D306307	NICHOLAS A LERARIO	1981.37
D306308	COREY L LINDSAY	1873.71	D306309	NORMAN M LOVELY	2679.19
D306310	JOHN M MARQUEZ JR	2441.98	D306311	CHEYNE C MAULE	4117.38
D306312	TERRY A MCGOVERN JR	4079.87	D306313	SHANE D MELLE	1335.61
D306314	TRAVIS M MELLE	3596.24	D306315	MARK A MICKELSEN	3212.68
D306316	SON L NGUYEN	3684.20	D306317	FREDERICK N NIBLO	3026.73
D306318	BRENT C PARDOEN	2766.35	D306319	MICHAEL KURT RIETH	2320.86
D306320	WADE E RUHMAN	3306.71	D306321	DENNIS L RUZICKA	4151.30
D306322	NICK R SCHAEFER	521.61	D306323	SCOTT A SCHERER	2772.26
D306324	JEFFREY T SPARGUR	3733.00	D306325	MORRIS B SPELL	4289.36
D306326	TIMOTHY N STOWE	1751.10	D306327	WILLIAM S STROHM	2726.03
D306328	JUSTIN D TRAVER	2467.50	D306329	CHRISTOPHER B TRENHOLM	3211.76
D306330	JUSTIN TRUHILL	2509.46	D306331	MARIO G VALDERRAMA	2807.95
D306332	KEITH T VELOTTA	3156.89	D306333	DAVID S WALDSCHMIDT	2319.45
D306334	MARK S WEISS	3559.47	D306335	PAUL J WHITTAKER	5590.88
D306336	JEFFREY WILKINS	4950.39	D306337	JOSEPH A WINGERT JR	2681.54
D306338	JASON R BLOMGREN	1295.71	D306339	MYLES A BURROUGHS	791.95
D306340	DAVID M CARLSON	4010.07	D306341	PARKER W CARY	1619.71
D306342	JOSHUA A FELDMAN	3890.60	D306343	TIMOTHY D FISHER	4110.59
D306344	GARRET M FURUTA	1739.32	D306345	SHANE S HOWEY	3387.38
D306346	PETER M HUBER	2335.58	D306347	JORDAN R JEMIOLA	2916.23
D306348	JAYCEN R JUSTUS	1661.19	D306349	MATTHEW C KLEIBACKER	2216.15
D306350	ANTHONY L KNAACK	3811.35	D306351	JOSHUA D LEE	1711.23
D306352	DANIEL J MOORE	3556.17	D306353	GRANT A NOBLE	1200.53
D306354	ERIC S NORRDIN	2182.54	D306355	ANTHONY J PAGE	1890.57
D306356	ERIC M PALOMO	2552.05	D306357	ANDREW J ROACH	1520.63
D306358	RICHARD RONSTADT	2969.06	D306359	DAVID C SANCHEZ	2143.80
D306360	ERIC THORSON	2723.55	D306361	RYAN D VAN WIE	2099.43
D306362	KICKER E VENCILL	2054.42	D306363	GREGORY D WILLIAMS	2929.32
D306364	JEREMIE E YORKE	2379.54	D306365	NATHAN T BRADY	3386.36
D306366	BRYSON T DAHLHEIMER	1655.30	D306367	NOAH B FISHER	617.38
D306368	LISA S GUARDI	843.54	D306369	DON T NGUYEN	1692.78
D306370	THANH Q NGUYEN	2746.58	D306371	JOSEPH I VALENZUELA	143.13
D306372	TIMOTHY S SAWYER	4805.78	D306373	PEDRO R ARELLANO	16025.01
D306374	TODD D ELGIN	5452.38	D306375	CAROLE A KANEGAE	2154.12
D306376	WILLIAM ALLISON	3448.07	D306377	KRISTEN A BACKOURIS	1492.11
D306378	GENA M BOWEN	1260.75	D306379	JESENIA CAMPOS	1086.34
D306380	HELENA ELSSOUSOU	2353.13	D306381	ROBERT D FOWLER	3849.49
D306382	AI KELLY HUYNH	1765.93	D306383	CINDY S NAGAMATSU HANLON	2344.09
D306384	JEFFREY C NIGHTENGAL	3876.48	D306385	TRAVIS J WHITMAN	4834.69
D306386	CLAUDIA ALARCON	2718.91	D306387	TIMOTHY R ASHBAUGH	3739.51
D306388	ALFREDO R AVALOS	3123.21	D306389	CARLOS BAUTISTA JR	2336.30
D306390	JOSHUA K BEHZAD	3253.48	D306391	RYAN S BERLETH	1759.61
D306392	SUMMER A BOGUE	1688.07	D306393	RICHARD O BURILLO	6982.73

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D306394	RYAN V BUSTILLOS	2932.62	D306395	ROBERT W CAMPBELL	2690.97
D306396	JUAN C CENTENO	3031.75	D306397	JEROME L CHEATHAM	2716.85
D306398	AARON J COOPMAN	5164.01	D306399	ADAM B COUGHRAN	3058.65
D306400	GARY L COULTER	2212.50	D306401	NATHANIEL D COX	2049.60
D306402	CHARLIE DANIELEY III	1635.42	D306403	NICHOLAS A DE ALMEIDA LO	15028.28
D306404	KEVIN DINH	2662.84	D306405	RONNIE D ECHAVARRIA	3619.79
D306406	KARI A FLOOD	2280.75	D306407	MICHAEL E GERDIN	4460.73
D306408	JOSEPH P GROSS JR	10176.06	D306409	ALLAN S HARRY	5552.10
D306410	BRIAN HATFIELD	4030.44	D306411	WILLIAM T HOLLOWAY	3008.98
D306412	JASON L JOHNSON	2140.00	D306413	MICHAEL J JOHNSON	2614.23
D306414	GERALD F JORDAN	21199.28	D306415	TIMOTHY P KOVACS	3868.93
D306416	AUSTIN C LAVERTY	4627.69	D306417	CHRISTOPHER LAWTON	3195.85
D306418	DEREK M LINK	2705.31	D306419	RAFAEL LOERA JR	2223.25
D306420	JON D LOFQUIST	2261.02	D306421	MATTHEW P MARCHAND	2812.68
D306422	BRYAN J MEERS	3385.89	D306423	DANNY J MIHALIK	2321.04
D306424	JEREMY N MORSE	4198.81	D306425	MITCHEL S MOSSER	1941.67
D306426	PATRICK W MURPHY	3837.54	D306427	AARON S NELSON	2676.39
D306428	JASON S PERKINS	7051.08	D306429	PHILLIP H PHAM	3431.32
D306430	JOHN E REYNOLDS	16895.69	D306431	CHRISTOPHER M SHELIGREN	13926.93
D306432	GAREY D STAAL	4563.14	D306433	DANIEL J VILLEGAS	2674.31
D306434	JONATHAN B WAINWRIGHT	3216.22	D306435	CHRISTOPHER A WASINGER	2768.36
D306436	MARCOS R ALAMILLO	4996.42	D306437	RICHARD A ALVAREZ-BROWN	2250.47
D306438	BOBBY B ANDERSON	3260.00	D306439	KATHERINE M ANDERSON	3998.26
D306440	PAUL W ASHBY	3462.20	D306441	JOHN F BANKSON	2465.83
D306442	EVAN S BERESFORD	2337.51	D306443	VANESSA M BRODEUR	5322.12
D306444	DAVID Y H CHANG	5270.68	D306445	CHASEN P CONTRERAS	5525.87
D306446	BRIAN D DALTON	2100.17	D306447	JARED R DOYLE	2017.38
D306448	AMIR A EL-FARRA	12395.72	D306449	MICHAEL K ELHAMI	17725.31
D306450	BENJAMIN M ELIZONDO	5021.82	D306451	JOSHUA N ESCOBEDO	4354.02
D306452	STEPHEN C ESTLOW	967.65	D306453	GEORGE R FIGUEREDO	3257.06
D306454	ROGER A FLANDERS	812.53	D306455	SEAN M GLEASON	3903.96
D306456	ALDO U GUERECAL	3668.61	D306457	TROY HALLER	5838.73
D306458	ARION J KNIGHT	2774.23	D306459	RAPHAEL M LEE	318.80
D306460	ERICK LEYVA	3952.17	D306461	CHARLES H LOFFLER	6762.27
D306462	MARK A LORD	3505.32	D306463	TAYLOR A MACY	5983.23
D306464	GIANLUCA F MANIACI	4277.91	D306465	MARIO MARTINEZ JR	6138.43
D306466	NATHAN D MORTON	5085.24	D306467	RUDOLPH J NEGRON	3974.25
D306468	JEFFREY C NGUYEN	5372.47	D306469	STEVEN TRUJILLO ORTIZ	6932.04
D306470	OMAR F PEREZ	2608.38	D306471	MICHAEL M PHILLIPS	765.52
D306472	DOUGLAS A PLUARD	3129.03	D306473	COREY T POLOPEK	4857.23
D306474	SINDY RAMIREZ OROZCO	4433.89	D306475	JOHN E RANEY	2924.09
D306476	RYAN R RICHMOND	4391.50	D306477	CHRISTIN E ROGERS	4861.75
D306478	SEAN M SALAZAR	3718.48	D306479	LINO G SANTANA	4170.60
D306480	PHILIP E SCHMIDT	4047.59	D306481	CHARLES W STARNES	1977.34
D306482	ARTHUR F TINTLE JR	3471.52	D306483	VINCENTE J VAICARO	6785.92
D306484	JOHN J YERGLER	2847.82	D306485	THOMAS A CAPPS	15567.87
D306486	PATRICK E GILDEA	4089.75	D306487	RON A REYES	3403.37
D306488	ROCKY F RUBALCABA	2232.34	D306489	ROYCE C WIMMER	2656.41

\*\*\*\* PAGE TOTAL = 435818.05

D306490	ADAM D ZMIJA	3440.93	D306491	JUAN L DELGADO JR	3029.73
D306492	CHRISTOPHER M EARLE	5385.59	D306493	OTTO J ESCALANTE	3756.05
D306494	GEORGE KAISER	15506.17	D306495	PETER M KUNKEL	2457.77
D306496	LUIS F RAMIREZ	2964.22	D306497	PETER HOANG VI	2240.35
D306498	JEFFREY A BROWN	18946.38	D306499	DONALD J HUTCHINS	3023.31
D306500	RYAN M LUX	1984.79	D306501	RAUL MURILLO JR	4277.98
D306502	JOSHUA T OLIVO	2522.72	D306503	ROBERT M STEPHENSON III	3232.97
D306504	COURTNEY P ALLISON	2152.87	D306505	LISA A BELTHIUS	727.48
D306506	CHARLES K BODDY	4443.46	D306507	RANDY G CHUNG	115.99
D306508	THOMAS R DARE	5398.07	D306509	TIFFANY M GRIEGO	486.09
D306510	CRAIG A HERRICK	408.15	D306511	PATRICK R JULIENNE	1328.23
D306512	VERONICA NELSON	968.93	D306513	BRYAN GONZALEZ	353.34
D306514	KRYSTAL L N JEANG	368.92	D306515	HAN NA PARK	74.57
D306516	FELICIA H PEREZ	92.23	D306517	KEIRA LONG	1507.43
D306518	ROBERT E BOWERS	1084.39	D306519	KAREN D BRAME	1201.23
D306520	KENNETH L CHISM	1568.85	D306521	CHARLES M CLINE JR	836.00
D306522	JAMES E COLEGROVE	3237.99	D306523	PAUL E DANIELSON	396.12
D306524	ROBERT M DONAHUE JR	380.69	D306525	RUSSELL B DRISCOLL	445.41
D306526	MICHAEL FEHER	1135.12	D306527	HECTOR FERREIRA JR	1654.76
D306528	KORY C FERRIN	2926.93	D306529	JAMES D FISCHER	921.49
D306530	VICTORIA M FOSTER	1296.93	D306531	NICKOLAS K JENSEN	1955.77
D306532	KENNETH E MERRILL	509.29	D306533	JOHN J STEPANOVICH	1337.68
D306534	PATRICK M THRASHER	1114.89	D306535	MICHAEL J VISCOMI	3246.52
D306536	SCOTT D WATSON	883.23	D306537	ROBERT L BOGUE JR	4185.12
D306538	FLOR DE LIS ELIZONDO	886.09	D306539	GARY E ELKINS	2064.95
D306540	JOHN A FLAWS	2196.45	D306541	JASON S FULTON	1890.90
D306542	JAMES C HOLDER	4493.57	D306543	ROBERT J KIVLER	1635.62
D306544	VICTORIA L LAWTON	2316.02	D306545	ALLYSON T LE	1464.56
D306546	EDUARDO C LEIVA	4015.91	D306547	RAQUEL D MATA	775.65
D306548	REBECCA S MEEKS	2234.44	D306549	MICHELLE L OLMSTEAD	1014.53
D306550	DAVID C YOUNG	6441.06	D306551	MARIA A ALCARAZ	1677.21
D306552	CARISSA L BRUNICK	1345.85	D306553	TAMMY L CHAURAN-HAIGROV	1790.21
D306554	VERONICA FRUTOS	1062.89	D306555	DAVID L GEORGE	1838.33
D306556	JOAN L HIGHTOWER	1704.28	D306557	PINKY C HINGCO	1865.93
D306558	SUSAN C HUANG	1803.81	D306559	RORY K JANOGA	988.79
D306560	SHELBY KEUILIAN	1623.06	D306561	ANGELA LEDESMA	1933.29
D306562	MARIA C MCFARLANE	1748.02	D306563	BRITTNEE D MCGOWEN	1389.99
D306564	TRINA T NGUYEN	1633.40	D306565	DEBRA J NICHOLS	1837.96
D306566	DIANA L O'BRIEN	945.99	D306567	ASHLEY C ROJAS	1534.72
D306568	JENNIFER V ROMBOUGH	1871.59	D306569	ASHLEY T SEROTA	1563.31
D306570	KIMBRA S VELLANOWETH	1799.24	D306571	KRISTIN M WEISS	1765.28
D306572	SHANNON M YELENSKY	2210.81	D306573	JENNIFER A DIX	2306.20
D306574	DEBBY L FELSE	2140.61	D306575	KATHERINE M FRANCISCO	2040.61
D306576	AMANDA B GARNER	1992.47	D306577	ARCHIE GUZMAN	1980.65
D306578	ROBERT D LUX	2332.91	D306579	MELISSA MENDOZA-CAMPOS	1753.39
D306580	MICHAEL A MOSER	1903.29	D306581	BRANDY J PARK	2803.04
D306582	CRISTINA V PAYAN	1550.56	D306583	JENNIFER M RODRIGUEZ	1727.02
D306584	TANYA L SAMOFF	2173.83	D306585	SUSAN A I SEYMOUR	2098.45

\*\*\*\* PAGE TOTAL = 215679.87

D306586	NICOLE D SHORROW	1439.84	D306587	DANNY J SOSEBEE	1921.00
D306588	MARSHA D SPELLMAN	2646.24	D306589	SPENCER T TRAN	1939.31
D306590	SANTA WARDLE	1565.80	D306591	CHERYL L WHITNEY	1811.96
D306592	RAY E BEX	3114.93	D306593	DANIEL A CAMARA	2336.39
D306594	JOHN CASACCIA II	6105.18	D306595	HAN J CHO	3472.22
D306596	SCOTT A COLEMAN	3210.23	D306597	RICHARD E DESBIENS	1133.57
D306598	MICHAEL D FARLEY	2599.30	D306599	JAMES D FRANKS	1944.36
D306600	PETE GARCIA	1817.60	D306601	STEVEN H HEINE	125.47
D306602	JOSE D HERRERA	17804.02	D306603	THI A HUYNH	2415.87
D306604	JOSEPH L KOLANO	2753.75	D306605	LEA K KOVACS	2660.20
D306606	NICHOLAS A LAZENBY	18894.78	D306607	DAVID LOPEZ	2601.42
D306608	STEVEN W LUKAS	1501.39	D306609	LUIS A PAYAN	3848.95
D306610	TERRA M RAMIREZ	2102.72	D306611	ORLONZO REYES	7296.16
D306612	PAUL M TESSIER	4107.57	D306613	EDGAR VALENCIA	2932.94
D306614	TUONG-VAN NGUYEN VU	1528.67	D306615	DENNIS WARDLE	3313.70
D306616	CARL J WHITNEY	6585.59	D306617	RONALD A DOSCHER	2835.82
D306618	ERIC A QUINTERO	2097.74	D306619	MARY C CERDA	1820.95
D306620	NICOLE L CHUNG	1812.72	D306621	SUSAN A HOLSTEIN	2968.82
D306622	LIANE Y KWAN	2573.12	D306623	JANY H LEE	3131.16
D306624	SHERRILL A MEAD	2140.95	D306625	CAITLYN M STEPHENSON	1540.55
D306626	LAURA J STOVER	4282.90	D306627	FRANA K CASSIDY	1567.38
D306628	ANNA L GOLD	1537.50	D306629	HIEN Q PHAM	1560.01
D306630	KATRENA J SCHULZE	398.57	D306631	MATTHEW T SWANSON	1214.81
D306632	ANTHONY VALENZUELA	1307.88	D306633	CANDY G WILDER	1736.10
D306634	STEVEN F ANDREWS	1402.09	D306635	TERENCE S CHANG	2059.48
D306636	VERNA L ESPINOZA	1660.17	D306637	CESAR GALLO	2147.83
D306638	CHARLES D KALIL	1555.91	D306639	GEOFFREY A KLOESS	2566.58
D306640	RACHOT MORAGRAAN	3441.39	D306641	NOEL J PROFFITT	3094.06
D306642	ANAND V RAO	3332.66	D306643	JOSEPH M SCHWARTZ	2175.67
D306644	ROD T VICTORIA	1909.81	D306645	TERREL KEITH WINSTON	3203.44
D306646	POLICE ASSN	12969.11	D306647	GG FIRE FIGHTERS 2005	21104.99
D306647	SO CAL CU	89634.37	D306648	SOUTHLAND CU	5765.00
W2318	GREAT WEST LIFE 457 #340	165660.97	W2319	GREAT WEST LIFE OBRA#340	2205.72
W2320	INTERNAL REVENUE SERVICE	409898.41	W2321	EMPLOYMENT DEVELOPMENT D	124977.61

\*\*\* PAGE TOTAL = 1012823.38



TOTAL CHECK PAYMENTS	46	106,116.02
TOTAL DIRECT DEPOSITS	690	1,846,171.95
TOTAL WIRE PAYMENTS	4	702,742.71
		.....
GRAND TOTAL PAYMENTS	740	2,655,030.68

Checks #180732 thru #180775, and Direct Deposits #D305960 thru #DD306648, and wire #W2318 thru #W2321 presented in the Payroll Register submitted to the Garden Grove City Council 31 JAN 2017, have been audited for accuracy and funds are available for payment thereof.

  
KINGSLEY C OKEREKE - FINANCE DIRECTOR

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To:	Scott C. Stiles	From:	Lisa Kim
Dept.:	City Manager	Dept.:	Community and Economic Development
Subject:	Adoption of a Resolution approving Site Plan No. SP-031-2016 for the development of a proposed ten-unit apartment complex at 9691 Bixby Avenue, Garden Grove, and to introduce for first reading an Ordinance adopting Development Agreement No. DA-004-2016		
		Date:	1/24/2017

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**OBJECTIVE**

For the City Council to conduct a Public Hearing to consider: (i) a request for Site Plan approval of a proposed project to construct a ten-unit, two-story apartment complex, located at 9691 Bixby Avenue, with a 25 percent affordable housing density bonus for "low-income" households; (ii) a request that the City Council adopt a Resolution approving Site Plan No. SP-031-2016, and (iii) a request that the City Council introduce and conduct the first reading of an Ordinance approving Development Agreement No. DA-004-2016 for the development of the project.

**BACKGROUND**

The site is currently improved with two (2) existing buildings, which are currently occupied by Precious Years Children's Center, a preschool/daycare. The applicant is proposing to demolish the two (2) existing buildings and construct ten (10) new, detached, two-story apartment units, recreation areas, and associated parking and landscaping improvements. The project qualifies for application of State Density Bonus Law allowances for density, concessions and incentives, along with State-wide parking standards. Within the project, 25 percent of the base density units will be reserved for low-income households through a 55-year Density Bonus Housing Agreement with the City of Garden Grove. A Development Agreement is also included in the proposal.

On December 1, 2016, the Planning Commission held a Public Hearing to consider Site Plan No. SP-031-2016 and Development Agreement No. DA-004-2016. Two (2) members of the

public came forward to speak in opposition to the project. Concerns raised by the public related to on-street parking and traffic issues, and a 53 signature petition in opposition of the request, echoing the same concerns, was also submitted. By a vote of 3-3 (with one Commissioner absent), a motion to approve SP-031-2016 and to recommend approval of DA-004-2016 failed. Based on there being no decision by the Planning Commission to approve or deny the project, staff is requesting City Council consideration of the subject entitlements. Furthermore, State law and Section 9.12.030.070(H) of the Garden Grove Municipal Code provide that if the application is consistent with the Density Bonus regulations, denial of the application must be supported by a written finding, based upon substantial evidence, of one of the following:

- a. The waiver or modification is not necessary to make the housing units economically feasible.
- b. The waiver or modification would have a specific adverse impact upon health, safety, or the physical environment, and there is no feasible method to satisfactorily mitigate or avoid the specific adverse impact without rendering the development unaffordable to low- and moderate-income households. For the purpose of this subsection, "specific adverse impact" means a significant, quantifiable, direct, and unavoidable impact, based on objective, identifiable, written public health or safety standards, policies, or conditions.
- c. The waiver or modification would have an adverse impact on any real property that is listed in the California Register of Historical Resources.

Staff has not identified evidence of any of the foregoing factors, and is recommending approval of the application.

## DISCUSSION

### Site Plan

Based on the lot size, the maximum allowable density for the subject site, under the Municipal Code, is eight (8) dwelling units. However, the proposed design is for ten (10) units. The proposal for the ten units is a 25 percent density increase over the allowable number of units in the R-2 (Limited Multiple-Family Residential) zone. The State Density Bonus Law became effective on January 1, 2005. In response, the City Council adopted Ordinance No. 2668, which amended Title 9, Section 9.12.030.070 of the Garden Grove Municipal Code to be in conformance with State law. The Ordinance states that "the California Legislature has determined that the provision of affordable housing for moderate, lower and very low-income individuals ... [is] of primary importance in the state and must be encouraged at the local level." The applicant and property owner have developed their proposal based on the allowances of the State Density Bonus Law. The proposal for ten (10) units meets the requirements of the State Density Bonus Law and Ordinance No. 2668.

The proposal must provide a minimum of one (1) target unit reserved for low-income households to increase the density by 20 percent. The applicant, however, exceeds the minimum by providing three (3) target units reserved for low-income households. State law provides additional bonuses for increases over the minimum number of required target units. Based on the provision of three (3) targets units,

the applicant is eligible for a maximum 35 percent density bonus, pursuant to State law. The maximum number of units allowed, under State law, with the maximum 35 percent density bonus applied, is eleven (11) units. However, the applicant is only proposing ten (10) total units for the project. State Density Bonus Law allows a developer to request up to a maximum of three (3) concessions or incentives based on the percentage of affordable housing target units provided in the development, and also based on the target group (i.e., very-low income, low-income, moderate income, etc.) they are reserved for. A concession/incentive is a waiver of a City Code development standard/requirement.

The applicant is proposing three (3) concessions/incentives, as provided by State Law, which include: (i) a reduced separation between residential units and drive aisles; (ii) a reduced separation between residential units and guest parking areas; and (iii) a reduced separation between buildings. Since the applicant is applying for three (3) concessions, State law requires that a minimum of three (3) target units must be reserved for low-income households. The project meets this minimum requirement by providing three (3) target units reserved for low-income households.

The incorporation of the three (3) concession/incentives allow the project to accommodate the increased density as well as provide for a design that improves the functionality and usability of the development for its residents and guests.

Additionally, the project complies with all other development standards of the R-2 zone. Parking requirements for the project are determined by the State Density Bonus Law, which requires 2.5 parking spaces per unit. Based on the ten (10) proposed units, a minimum of 25 parking spaces are required. The project exceeds the parking requirements by providing a total of thirty (30) parking spaces (20 enclosed garage parking spaces, and 10 open guest parking spaces). Please see the attached Project Summary Chart detailing the proposed project with Density Bonus Law applied.

#### Development Agreement

The proposed Development Agreement will ensure that the Applicant constructs the project in accordance with the approved Site Plan within a period of four years. The City will receive a Development Agreement payment not to exceed \$19,160.

Development Agreement payments are designed to provide benefits to the public in return for an extended period within which to construct the project.

#### FINANCIAL IMPACT

There is no financial impact.

#### RECOMMENDATION

It is recommended that the City Council:

- Conduct a Public Hearing;
- Adopt the attached Resolution approving Site Plan No. SP-031-2016 to construct a 10-unit, two-story apartment complex, at 9691 Bixby Avenue, with a 25 percent affordable housing density bonus and Density Bonus Housing Agreement; and

- Introduce and conduct the first reading of the attached Ordinance approving Development Agreement No. DA-004-2016, between the City of Garden Grove and Tony Le and Dung Nguyen, for the property located at 9691 Bixby Avenue, Garden Grove.

By: Chris Chung, Assistant Planner

**ATTACHMENTS:**

<b>Description</b>	<b>Upload Date</b>	<b>Type</b>	<b>File Name</b>
SP-031-2016 Project Summary Chart	1/11/2017	Cover Memo	SP-031-2016_Project_Summary_Chart.pdf
Planning Commission Staff Report dated December 1, 2016	1/10/2017	Cover Memo	Planning_Commission_Staff_Report_dated_December_1__2016.doc
Planning Commission Draft Minute Excerpt of December 1, 2016	1/10/2017	Cover Memo	Planning_Commission_Draft_Minute_Excerpt_of_December_1__2016.docx
Draft City Council Resolution for SP-031-2016	1/10/2017	Cover Memo	Draft_City_Council_Resolution_for_SP-031-2016_Rev1.docx
Exhibit A Conditions of Approval for SP-031-2016	1/10/2017	Cover Memo	Exhibit_A_Conditions_of_Approval_for_SP-031-2016_Rev1.doc
Draft City Council Ordinance for Development Agreement No. DA 004 2016	1/10/2017	Cover Memo	Draft_City_Council_Ordinance_for_DA-004-2016.doc

# PROJECT SUMMARY CHART

Site Plan No. SP-031-2016

9691 Bixby Avenue - Proposed Ten Unit Apartment Complex

	State Density Bonus Law	Proposed Project at 9691 Bixby Avenue
<b>DENSITY</b> Maximum # of Residential Units Allowed	Maximum of 11 Units	10 Units Proposed
<b>PARKING</b> Minimum # of Parking Spaces Required	25 Parking Spaces Required	30 Parking Spaces Provided
<b>TARGET UNITS</b> Minimum # of Affordable Housing Units to Qualify for Density Bonus	Minimum of 1 Target Unit	3 Target Units Proposed
<b>CONCESSIONS/INCENTIVES</b> Waivers of City Code Requirements	Eligible for up to 3 Concessions/Incentives	3 Concessions/Incentives Proposed (See Below)

**The 3 Concessions/Incentives Proposed in the Project include the following:**

- (1) A reduced separation between residential units and drive aisles from 10 feet to 0 feet, in certain areas of the project.
- (2) A reduced separation between residential units and guest parking areas from 15 feet to 0 feet, in certain areas of the project.
- (3) A reduced separation between buildings from 35 feet to 28 feet, for front-to-front building orientation, and from 15 feet to 10 feet, for side-to-side building orientation, in certain areas of the project.

# COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT STAFF REPORT

<b>AGENDA ITEM NO.:</b> C.1.	<b>SITE LOCATION:</b> North side of Bixby Avenue, east of Gilbert Street, at 9691 Bixby Avenue
<b>HEARING DATE:</b> December 1, 2016	<b>GENERAL PLAN:</b> Low Medium Density Residential
<b>CASE NOS.:</b> Site Plan No. SP-031-2016 and Development Agreement No. DA-004-2016	<b>ZONE:</b> R-2 (Limited Multiple-Family Residential)
<b>APPLICANT:</b> Bryson Nguyen	<b>CEQA DETERMINATION:</b> Exempt – CEQA Guidelines § 15332
<b>PROPERTY OWNER:</b> Tony Le & Dung Nguyen	<b>APN NO.:</b> 133-102-24

## **REQUEST:**

The applicant is requesting Site Plan approval to construct a 10-unit, two-story apartment complex, located at 9691 Bixby Avenue, with a 25% affordable housing density bonus for "low-income" families. Pursuant to State Density Bonus Law, the applicant is requesting three (3) concessions from the R-2 zone development standards - (1) separation between residential units and vehicular accessways; (2) separation between residential units and open guest parking areas; and (3) separation between main buildings. A Development Agreement is also proposed.

## **BACKGROUND:**

The subject site is a 36,121 square foot lot and is located on the north side of Bixby Avenue, east of Gilbert Street. The site is currently improved with two (2) existing buildings, which are currently occupied by Precious Years Children's Center, operating as a preschool/daycare for children ages 2-12. Precious Years Children's Center anticipates moving its operation to another location by January 2017. The subject site has a General Plan Land Use Designation of Low Medium Density Residential and is zoned R-2 (Limited Multiple-Family Residential). The properties to the north, west, and to the south, across Bixby Avenue, are zoned R-1 (Single-Family Residential) and are primarily developed with single-family homes, along with a K-12 school. The property to the east is zoned R-2 and is developed with multiple-family housing.

The applicant is proposing to demolish the two (2) existing buildings and construct ten (10) new, detached, two-story apartment units, recreation areas, and

associated parking and landscaping improvements. The project will use the State Density Bonus Law allowances for density, concessions and incentives, along with State-wide parking standards. The project will provide 25% of the base density units as low-income, which will be reserved through a Density Bonus Housing Agreement with the City of Garden Grove. A Development Agreement is also included in the proposal.

### **PROJECT STATISTICS:**

<b>PROJECT CRITERIA</b>	<b>ACTUAL</b>	<b>CODE REQUIREMENT</b>	<b>MEETS CODE</b>	<b>CONCESSION REQUIRED</b>
<b>LOT SIZE</b>	36,121.2 sq. ft.	7,200 sq. ft.	X	
<b>DENSITY</b>	36,121.2 sq. ft. with Density Bonus = 10 units	36,121.2 sq. ft. = 8 units max (4,356 sq. ft. per unit) With Density Bonus an addtl 35% is permitted for a total of 11 units max	X	
<b>SETBACKS</b>				
South (Front)	20'-0"	20'-0"	X	
West (Side)	10'-0" 1st Flr. & 12'-6" 2nd Flr.	10'-0" 1st Flr. & 12'-6" 2nd Flr.	X	
East (Side)	10'-0" 1st Flr. & 12'-6" 2nd Flr.	10'-0" 1st Flr. & 12'-6" 2nd Flr.	X	
North (Rear)	35'-0"	10'-0"	X	
<b>PARKING</b>	3 spaces per unit = 30	2.5 spaces for 4 or more bedroom units (10) per State Density Bonus Law = 25	X	
<b>BUILDING SEPARATION</b>				
Distance btwn accessways & unit	0'-0"	10'-0"		X
Distance btwn guest parking & unit	0'-0"	15'-0"		X
Distance btwn main buildings (2 to 2 Story)	28'-0" (Rear to Rear) 10'-0" (Side to Side)	30'-0" (Rear to Rear) 15'-0" (Side to Side)		X
<b>BUILDING HEIGHT</b>	26'-6"	35'-0"	X	

### **DISCUSSION:**

#### State Density Bonus Law

The applicant and property owner have developed their proposal based on the allowances of the State Density Bonus Law. The State Density Bonus Law became effective on January 1, 2005. In Response, the City Council of Garden Grove approved an ordinance (Ordinance No. 2668) that amended Title 9 to be in conformance with State Law. The ordinance states that "the California Legislature has determined that the provision of affordable housing for moderate, lower and very low-income individuals ... [is] of primary importance in the state and must be encouraged at the local level." The proposal for ten (10) units meets the requirements of the State Density Bonus Law and Ordinance No. 2668 of Title 9, City of Garden Grove Municipal Code.



Based on the lot size, the maximum allowable density for the subject site, under the Municipal Code, is eight (8) dwelling units. However, the proposed design is for ten (10) units. The proposal for the ten units is a 25% density bonus increase over the allowable number of units in the R-2 (Limited Multiple-Family Residential) zone.

The proposal must provide a minimum of 10% of the units (1 target unit) reserved for low-income households to increase the density by 20%. The applicant, however, exceeds the minimum by providing 37.5% of the units (3 target units) reserved for low-income households. State law provides an additional 1.5% bonus for each 1% increase over the minimum percentage required for target units. Therefore, the applicant would be eligible for the maximum 35% density bonus.

The maximum number of units allowed, under State Law, based on the proposed percentage of target units (37.5%), and with the maximum 35% density bonus applied, is eleven (11) units. However, the applicant is only proposing ten (10) total units for the project.

The applicant is also applying for three (3) concessions or incentives as provided by State law. Since the applicant is applying for three concessions, State law requires that a minimum of 20% of the units (a minimum of two target units) must be reserved for low-income households. The project meets the minimum requirement by providing three target units (37.5%) reserved for low-income households.

The project exceeds the parking requirements of the State Density Bonus Law, which allows for 2.5 parking spaces for units that have four (4) or more bedrooms in size, by providing a total of thirty (30) parking spaces (20 enclosed garage parking spaces, and 10 open guest parking spaces).

#### SITE PLAN:

##### Site Design and Circulation

The proposed development is designed to provide efficient circulation, for both vehicular and pedestrian access, for the ten (10) proposed detached dwelling units. Five (5) units run along the westerly property line, the other five units along the easterly property line, and a private 28'-0" wide drive aisle runs down the center of the development.

The project is accessed by a 28'-0" wide driveway from Bixby Avenue, which provides access to the 28'-0" wide private drive aisle, open guest parking spaces, enclosed garage parking spaces, walkways to the units, and the rear recreation areas. No vehicular access gate is proposed.

Units 1 and 2, which front along Bixby Avenue, have respective walkways providing direct pedestrian access from the public right-of-way (sidewalk). Two (2) additional walkways, with direct access from the public right-of-way, provide access to the internal walkway system allowing for pedestrian circulation throughout the development.

Approximately 150'-0" feet into the subject lot, a hammerhead turnaround area will be provided for fire truck emergency access. A new fire hydrant will be installed near the hammerhead turnaround area. The hammerhead turnaround area will be painted with cross hatched markings to be designated as a "No Parking" zone, and exclusive for fire truck access only.

Units 1 and 2 are set back 20'-0" from the southerly property line. The dwelling units provide a 10'-0" setback at the first floor, and a 12'-6" setback at the second floor, along both the westerly and easterly property lines. The internal walkway system runs within the 10'-0" side setbacks on each side, providing access to unit entries, the trash enclosure, and the recreation areas at the rear of the lot. Unit 6 and Unit 10 provide a 40'-0" and a 35'-0" setback to the rear property line, respectively.

Based on the Municipal Code, for open space development standards, a minimum of 3,000 square feet of open space is required for the entire development – a minimum of 1,225 square feet of active recreation area and the remainder dispersed among any private and passive recreation areas. A total 4,212 square feet of both common and private recreation space has been provided (a surplus of 1,212 square feet). Common open space will total 2,432 square feet – 1,610 square feet as active recreation area and 822 square feet as passive recreation area. It should be noted that the passive recreation area will, in fact, total 1,644 square feet. However, the Municipal Code allows a maximum of 50% of any proposed passive recreation area to count toward the recreation/open space square footage requirements. Private recreation areas, provided within private patios, will total 1,780 square feet. Private patios will range in size from 160 to 180 square feet in area. An open trellis patio cover is provided within the active recreation area, located at the northwest corner of the site, with built-in BBQ areas and seating. Additional amenities are provided within the passive recreation area. Sufficient landscaping is also provided around the perimeters of the recreation areas to create a buffer to adjacent properties, as well as to mitigate any 2<sup>nd</sup> floor privacy intrusions.

### Parking

The 28'-0" wide drive aisle provides access to each two-car enclosed garage, the open guest parking spaces, as well as access to the fire truck hammerhead turnaround. Parking for the project is determined by the State Density Bonus Law at two and one-half parking spaces for each unit with four (4) or more bedrooms. Therefore, based on the proposed ten (10) units, each with four (4) bedrooms, a minimum of 25 parking spaces are required. Each detached dwelling unit has an attached two-car enclosed garage (a total of 20 enclosed garage spaces). Additionally, ten (10) open guest parking spaces are provided – one of which is ADA (Americans with Disabilities Act) accessible. A total of 30 parking spaces are provided, which is a surplus of five (5) parking spaces over the State required minimum.

### Unit Design

The proposed units range in size from 1,887 square feet to 2,005 square feet. All units are two-story and have four (4) bedrooms and three (3) bathrooms. Additionally, each unit has an attached two-car garage. Units 1 and 2 have direct access to the public right-of-way, off Bixby Avenue, while Units 3-10 maintain access from the internal walkway system. Finally, each unit has their own private patio area that will range in size from 160 to 180 square feet.

### Building Design

The applicant has proposed a contemporary architectural style for the apartment dwelling units that exhibit stucco exteriors, decorative window trim, decorative faux balcony treatment with decorative white wrought iron railings, and an effective use of articulation on the building façade and design. The applicant has submitted a materials and colors board noting the use of three (3) alternating color palettes for stucco and roof shingle colors.

### Perimeter Walls and Landscaping

The development will maintain a six-foot (6'-0") high, decorative masonry block wall along the perimeter of the site, located along the westerly, northerly, and easterly property lines. Furthermore, a six-foot high wood fence will be constructed for each private patio area to provide privacy for each of the units.

All areas of the site, excluding where walkways, drive aisles, and parking areas have been required, will be landscaped. The applicant is required to provide a landscape and irrigation plan to the City that complies with the landscaping requirements of Title 9 of the Municipal Code. Planning staff will review the type and location of all proposed plant materials. As part of the landscape plan, a variety of trees, shrubs, and flowers are required for all common and private areas. All landscaped areas will be fitted with automatic irrigation systems.

### Concessions/Incentives

The applicant is proposing three (3) concessions/incentives in the project. The first concession/incentive is the reduced separation requirement between the residential units and drive aisles. The Municipal Code requires a minimum ten-foot separation. The applicant has proposed to reduce the drive aisle separation in certain areas of the project to zero feet.

The second concession/incentive is the reduced separation requirement between residential units and guest parking areas. The Municipal Code requires a minimum fifteen-foot separation. The applicant has proposed to reduce the guest parking separation in certain areas of the project to zero feet.

The third concession/incentive is the reduced separation requirement between main buildings. The Municipal Code requires minimum building separations depending on building orientation. Between two 2-story buildings, a front-to-front orientation requires a minimum building separation of 35'-0", and a side-to-side orientation requires a minimum building separation of 15'-0". The applicant has proposed to reduce front-to-front separation to 28'-0" and side-to-side separation to 10'-0", in certain areas of the project.

The incorporation of the three (3) concession/incentives allow the project to accommodate the increased density as well as provide for a design that improves the functionality and usability of the development for its residents and guests. Additionally, the project complies with all other development standards of the R-2 zone. The proposed development is unique in that the units are detached, provide individual/private 2-car garages, and have individual characteristics of single-family residences.

#### Development Agreement

The applicant is entering into a Development Agreement with the City. The applicant will be guaranteed four (4) years in which to construct the project and the City will receive from the developer a Development Agreement fee not to exceed \$19,160.00. Development Agreement payments are designed to reduce the economic costs of new projects to the public and mitigate development-related concerns on the community. The Planning Commission recommendation on the Development Agreement will be forwarded to the City Council for final action.

#### **RECOMMENDATION:**

Staff recommends that the Planning Commission take the following action:

- Recommend the City Council approve the Development Agreement; and,
- Approve Site Plan No. SP-031-2016, subject to the conditions of approval, and subject to approval, execution, and effectiveness of the Development Agreement.

Karl Hill  
Planning Services Manager

By: Chris Chung  
Associate Planner

GARDEN GROVE PLANNING COMMISSION  
B Room, Community Meeting Center  
11300 Stanford Avenue, Garden Grove, CA 92840

Draft Meeting Minutes  
Thursday, December 1, 2016

CALL TO ORDER: 7:00 p.m.

ROLL CALL:

Chair O'Neill  
Vice Chair Kanzler  
Commissioner Barker  
Commissioner Margolin  
Commissioner Nuygen  
Commissioner Paredes  
Commissioner Zamora

Absent: Margolin

PLEDGE OF ALLEGIANCE: Led by Chair O'Neill.

ORAL COMMUNICATIONS – PUBLIC – None.

November 3, 2016 MINUTES:

Action: Received and filed.

Motion: Zamora Second: Barker

Ayes: (6) Barker, Kanzler, Nuygen, O'Neill, Paredes, Zamora  
Noes: (0) None  
Absent: (1) Margolin

PUBLIC HEARING – SITE PLAN NO. SP-031-2016 AND DEVELOPMENT AGREEMENT NO. DA-004-2016. FOR PROPERTY LOCATED AT 9691 BIXBY AVENUE, NORTH SIDE OF BIXBY AVENUE, EAST OF GILBERT STREET.

Applicant: Bryson Nguyen  
Date: December 1, 2016

Request: Site Plan Approval to construct a 10-unit, two-story apartment complex with a 20% affordable housing density bonus for "low-income" families. Pursuant to State Density Bonus Law, the applicant requests two (2) waivers from the R-3 Zone development standards – (1) residential units within ten (10) feet of a drive aisle; and (2) residential units within fifteen (15) feet of guest parking areas. A

Development Agreement and a Density bonus Housing Agreement are also proposed. The site is in the R-2 (Limited Multiple-Family Residential) zone. This project is exempt pursuant to CEQA Section 15332 – In-Fill Development Projects.

Action: Public Hearing held. Speaker(s): Tony Le, Michael Torres, Tom Leonard

Action: Resolution Nos. 5872-16 and 5873-16 failed by a 3-3 vote. A 53 signature petition in opposition of the request was submitted by Michael Torres on behalf of the neighborhood residents regarding traffic and parking issues.

Motion: Zamora Second: Paredes

Ayes: (3) Kanzler, Paredes, Zamora

Noes: (3) Barker, Nuygen, O'Neill

Absent: (1) Margolin

MATTERS FROM COMMISSIONERS: Chair O'Neill mentioned that he would be a City Council member as of December 13<sup>th</sup> and that serving on the Planning Commission was an honor as he loved the opportunity to serve the City.

MATTERS FROM STAFF: Staff thanked Chair O'Neill for his service and looked forward to his role on the City Council. Staff then added that the next regular Planning Commission meeting would be cancelled; that the Holiday Dinner would be Thursday, December 15<sup>th</sup>; that the January 5<sup>th</sup> meeting would be cancelled; that a special Planning Commission meeting would occur on Thursday, January 12<sup>th</sup>; that the regular schedule would resume in February and include Study Sessions regarding State Law changes; and that the current Commissioners were to remain seated until noted otherwise.

Karl Hill, the City's Planning Services Manager, stated that he would be retiring at the end of the month after 31 years of service, and added that it was a pleasure to work with the Planning Commission.

ADJOURNMENT: At 7:46 p.m. to the next Regular Meeting of the Garden Grove Planning Commission on Thursday, December 15, 2016, at 7:00 p.m. in the B Room of the Community Meeting Center, 11300 Stanford Avenue, Garden Grove.

Motion: O'Neill Second: Zamora

Ayes: (6) Barker, Kanzler, Nuygen, O'Neill, Paredes, Zamora

Noes: (0) None

Absent: (1) Margolin

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Judith Moore  
Recording Secretary

## RESOLUTION NO.

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDEN GROVE APPROVING SITE PLAN NO. SP-031-2016 FOR PROPERTY LOCATED ON THE NORTH SIDE OF BIXBY AVENUE, EAST OF GILBERT STREET, AT 9691 BIXBY AVENUE, ASSESSOR'S PARCEL NO. 133-102-24.

BE IT RESOLVED that the City Council of the City of Garden Grove, in regular session assembled on January 24, 2017, does hereby approve Site Plan No. SP-031-2016, for land located on the north side of Bixby Avenue, east of Gilbert Street, at 9691 Bixby Avenue, Assessor's Parcel No. 133-102-24, subject to the Conditions of Approval attached hereto as "Exhibit A", and subject to the approval of Development Agreement No. DA-004-2016.

BE IT FURTHER RESOLVED in the matter of Site Plan No. SP-031-2016, the City Council of the City of Garden Grove does hereby finds as follows:

1. The subject case was initiated by Bryson Nguyen.
2. The applicant is requesting Site Plan approval to construct a 10-unit, two-story apartment complex, located at 9691 Bixby Avenue, with a 25% affordable housing density bonus for "low-income" families. Pursuant to State Density Bonus Law, the applicant is requesting three (3) concessions from the R-2 zone development standards - (1) separation between residential units and vehicular accessways; (2) separation between residential units and open guest parking areas; and (3) separation between main buildings. A Development Agreement incorporating these proposed land use entitlements is also proposed.
3. Pursuant to the California Environmental Quality Act ("CEQA"), the City of Garden Grove has determined that the proposed project is categorically exempt from the CEQA pursuant to Section 15332 (In-Fill Development Projects) of the CEQA Guidelines (14 Cal. Code Regs., Section 15332). The proposed project consists of an in-fill development on a site of less than five acres substantially surrounded by urban uses and which can be adequately served by all required utilities, and the project is consistent with the applicable General Plan land use designation, all applicable General Plan policies, and the applicable zoning designation and regulations. The project site has no value as habitat for endangered, rare or threatened species. Further, approval of the proposed project would not result in any significant effects relating to traffic, noise, air quality, or water quality.
4. The property has a General Plan Land Use designation of Low Medium Density Residential and is currently zoned R-2 (Limited Multiple-Family Residential). The subject site is a 36,121 square foot lot and is currently improved with two (2) existing buildings, which are currently occupied by Precious Years Children's Center, operating as a preschool/daycare.
5. Existing land use, zoning, and General Plan designation of property in the vicinity of the subject property have been reviewed.



6. Report submitted by City staff was reviewed.
7. Pursuant to a legal notice, a public hearing was held on January 24, 2017, and all interested persons were given an opportunity to be heard.
8. The City Council gave due and careful consideration to the matter during its meeting on January 24, 2017, and considered all oral and written testimony presented regarding the project; and

BE IT FURTHER RESOLVED, FOUND AND DETERMINED that the facts and reasons supporting the conclusion of the City Council, as required under Municipal Code Section 9.32.030 and Government Code Section 66412, are as follows:

FACTS:

The subject site is a 36,121 square foot lot and is located on the north side of Bixby Avenue, east of Gilbert Street. The site is currently improved with two (2) existing buildings, which are currently occupied by Precious Years Children's Center, operating as a preschool/daycare for children ages 2-12.

The subject site has a General Plan Land Use Designation of Low Medium Density Residential and is zoned R-2 (Limited Multiple-Family Residential). The properties to the north, west, and to the south, across Bixby Avenue, are zoned R-1 (Single-Family Residential) and are primarily developed with single-family homes, along with a K-12 school. The property to the east is zoned R-2 and is developed with multiple-family housing.

The applicant is proposing to demolish the two (2) existing buildings and construct ten (10) new, detached, two-story apartment units, recreation areas, and associated parking and landscaping improvements.

The application for Site Plan No. SP-031-2016 is being processed in conjunction with Development Agreement No. DA-004-2016.

FINDINGS AND REASONS:

Site Plan:

1. The Site Plan is consistent with the General Plan and complies with the spirit and intent of the provisions, conditions, and requirements of Title 9 and the General Plan.

The project complies with the goals of the Low Medium Density Residential Land Use Designation for the property by providing additional housing for the community that will be available for larger family sizes, providing a high quality project design that will preserve residential property values, and providing both common and private open space areas that are available to serve the residents

of the subject project. The requested concessions to development standards are reasonable and required to be granted by the State Density Bonus Law, and the project otherwise meets the standards of the R-2 (Limited Multiple-Family Residential) zoning of the property, as they pertain to the access, building setbacks, number of parking spaces, and landscaping. Therefore, the proposed project will improve the site and fulfill the goals and policies of the General Plan and Land Use Code by creating a well-maintained and attractive development that enhances the existing residential neighborhood.

2. The project will not adversely affect essential on-site facilities such as off-street parking, loading and unloading areas, traffic circulation, and points of vehicular and pedestrian access.

The drive aisle and maneuvering areas are adequate for vehicle access. The project meets the State's Density Bonus Housing Law provisions as implemented through the City's Code for minimum parking requirements. Additionally, adequate pedestrian access is provided within the project.

3. The project will not adversely affect essential public facilities such as streets and alleys, utilities and drainage channels.

The developer is required to make street improvements along Bixby Avenue. The street improvements include constructing curb and gutter, paving additional area on the street, constructing a sidewalk, reconstructing the drive approach, and planting street trees behind the new sidewalk. Additionally, existing utilities and drainage facilities within the area are adequate to accommodate the project. The on-site circulation and parking are sufficient for the existing and proposed development.

4. The project will not adversely impact the City's ability to perform its required public works functions.

The project has been reviewed by the Public Works Department, which has required various on- and off-site improvements, including sidewalks, driveways, and grading improvements. Issues raised by the project have been addressed in the project design and the conditions of approval.

5. The project is compatible with the physical, functional, and visual quality of the neighboring uses and desirable neighborhood characteristics.

The site design provides a greatly improved circulation pattern and point of access. The project has been designed for building appearance, building placement, landscaping, and other amenities to attain an attractive environment that will be an enhancement to the neighborhood.

6. That through the planning and design of buildings and building placement, the provision of open space, landscaping and other site amenities, the project will attain an attractive environment for the occupants of the property.

The project has been designed for building appearance, building placement, landscaping, and other amenities to attain an attractive environment that will be an enhancement to the neighborhood. Based on the Municipal Code, for open space development standards, a minimum of 3,000 square feet of open space is required for the entire development – a minimum of 1,225 square feet of active recreation area and the remainder dispersed among any private and passive recreation areas. A total 4,212 square feet of both common and private recreation space has been provided (a surplus of 1,212 square feet). All areas of the site, excluding where walkways, drive aisles, and parking areas have been required, will be landscaped. The proposed units range in size from 1,887 square feet to 2,005 square feet. All units are two-story and have four (4) bedrooms and three (3) bathrooms. Additionally, each unit has an attached two-car garage. Units 1 and 2 have direct access to the public right-of-way, off Bixby Avenue, while Units 3-10 maintain access from the internal walkway system. Each unit has their own private patio area that will range in size from 160 to 180 square feet. The applicant has proposed a contemporary architectural style for the apartment dwelling units that exhibits a stucco exterior, decorative window trim, decorative faux balcony treatment with decorative white wrought iron railings, and an effective use of articulation on the building façade and design.

#### INCORPORATION OF FACTS AND FINDINGS SET FORTH IN THE STAFF REPORT

In addition to the foregoing, the City Council incorporates herein by this reference, the facts and findings set forth in the staff report.

BE IT FURTHER RESOLVED that the City Council does conclude:

1. The Site Plan possesses characteristics that would indicate justification of the request in accordance with Municipal Code Section 9.32.030 (Site Plan)
2. In order to fulfill the purpose and intent of the Municipal Code, and, thereby, promote the health, safety, and general welfare, the following Conditions of Approval, attached as "Exhibit A", shall apply to Site Plan No. SP-031-2016.
3. Approval of this Site Plan shall be contingent upon the approval and the effective date of Development Agreement No. DA-004-2016.

## **EXHIBIT "A"**

### **Site Plan No. SP-031-2016**

9691 Bixby Avenue

### **CONDITIONS OF APPROVAL**

#### **General Conditions**

1. Each owner of the property shall execute, and the applicant shall record, a "Notice of Discretionary Permit Approval and Agreement with Conditions of Approval," as prepared by the City Attorney's Office, on the property within 30 days of approval. All Conditions of Approval set forth herein shall be binding on and enforceable against each of the following, and whenever used herein, the term "applicant" shall mean and refer to each of the following: the project applicant Bryson Nguyen, the developer of the project, the owner(s) and tenants(s) of the property, and each of their respective successors and assigns.
2. Approval of this Site Plan shall not be construed to mean any waiver of applicable and appropriate zoning and other regulations; and wherein not otherwise specified, all requirements of the City of Garden Grove Municipal Code shall apply.
3. The approved site plan, floor plan, and building design with colors are an integral part of the decision approving this Site Plan. There shall be no change in the site plan, floor plan, building design and/or colors as revised without the approval of the Community and Economic Development Department. Any change in the site plan, and/or floor plan, which has the effect of expanding or intensifying the use, shall require approval from the Planning Commission.
4. Minor modifications to the Site Plan and/or these Conditions of Approval may be approved by the Community and Economic Development Director, in his or her discretion. Proposed modifications to the project and/or these Conditions of Approval determined by the Community and Economic Development Director not to be minor in nature shall be subject to approval of new and/or amended land use entitlements by the applicable City hearing body.
5. All conditions of approval shall be implemented at the applicant's expense, except where specified in the individual condition.

**Public Work's Engineering Division**

The following provisions of the Public Work's Engineering Division shall be complied with:

6. The applicant shall be subject to Traffic Mitigation Fees, Park Fees, Drainage Fees, and other mitigation fees for development projects identified in Chapter 9.44 and/or other provisions of the Garden Grove Municipal Code, along with all other applicable fees duly adopted by the City.
7. A geotechnical study prepared by a registered geotechnical engineer is required. The report shall analyze the liquefaction potential of the site and make recommendations. The report shall analyze sub-surface issues related to the past uses of the site, including sub-surface tanks and basement and septic facilities. Any soil or groundwater contamination shall be remediated prior to the issuance of a building permit in a manner meeting the approval of the City Engineer in concert with the Orange County Health Department. The report shall make recommendations for pavement design of interior drive aisles and parking spaces. The report shall also test and analyze soil conditions for LID (Low Impact Development) principles and implementations, including soil compaction, saturation, permeability and groundwater levels.
8. A separate street permit is required for work performed within the public right-of-way.
9. Separate grading and street improvement plans prepared by a registered Civil Engineer are required. The grading plan shall be based on a current survey of the site, including a boundary survey, topography on adjacent properties up to 30 feet outside the boundary, and designed to preclude cross lot drainage. Minimum grades shall be 0.50% for concrete flow lines and 1.25% for asphalt. The grading plan shall also include water and sewer improvements. The grading plan shall include a coordinated utility plan. Street improvement plan shall conform to all format and design requirements of the City Standard Drawings & Specifications.
10. Prior to the issuance of any grading or building permits or prior to recordation upon subdivision of land if determined applicable by the City Building Official, the applicant shall submit to the City for review and approval a Water Quality Management Plan (WQMP) that:
  - Addresses Site Design BMPs based upon the geotechnical report recommendations and findings such as infiltration minimizing impervious areas, maximizing permeability, minimizing directly connected impervious areas, creating reduced or "zero discharge" areas, and conserving natural areas;

- Incorporates the applicable Routine Source Control BMPs as defined in the DAMP;
  - Incorporates Treatment Control BMPs as defined in the DAMP;
  - Generally describes the long-term operation and maintenance requirements for the Treatment Control BMPs;
  - Identifies the entity that will be responsible for long-term operation and maintenance of the Treatment Control BMPs;
  - Describes the mechanism for funding the long-term operation and maintenance of the Treatment Control BMPs.
11. Prior to grading or building permit closeout and/or the issuance of a certificate of use or a certificate of occupancy, the applicant shall:
- Demonstrate that all structural best management practices (BMPs) described in the Project WQMP have been constructed and installed in conformance with approved plans and specifications;
  - Demonstrate that applicant is prepared to implement all non-structural BMPs described in the Project WQMP;
  - Demonstrate that an adequate number of copies of the approved Project WQMP are available on-site;
  - Submit for review and approval by the City an Operations and Maintenance (O&M) Plan for all structural and/or other post-construction BMPs; and
  - Demonstrate that the applicant has agreed to and recorded an agreement or another legal instrument approved by the City Attorney that shall require the property owner, successors, tenants (if applicable), and assigns to fund, operate and maintain in perpetuity the post-construction BMPs described in the Project WQMP and O&M Plan.
12. Prior to issuance of a grading permit, the applicant shall provide a hydrological analysis with scaled map and calculations and hydraulic calculations to size drainage facilities per Orange County RDMD standards. Parkway culverts shall be designed per Orange County standard plan 1309, Type B. BMP's shall be sized per the requirements of the latest Technical Guidance Documents.
13. Prior to issuance of a grading permit, the applicant shall design overhead street lighting within the development in a manner meeting the approval of the City Engineer. Location of lighting poles shall be shown on the grading plan.

14. Provide a 3-foot public utility easement across lot frontage behind the property line.
15. Prior to issuance of the street improvements and grading permit, provide subdivision completion bonds for all work constructed under the street improvements and grading permit in a manner satisfactory to the City Engineer, City Attorney, and City Finance Department (Risk Management). Alternate forms of security may be considered, solely in the discretion of the City Engineer and with the concurrence of the City Attorney and City Finance Department (Risk Management).
16. The applicant shall construct the driveway entrance to the development per City of Garden Grove Standard Plan B-121 with conforming ADA landing and pathways where public and private sidewalks intersect. All designs must conform to latest ADA standards.
17. The grading plan shall provide an accessibility route for the ADA pathway in conformance with the requirements of the Department of Justice standards, latest edition.
18. Orange County Storm Water Program manual requires all contractors to provide a dumpster on-site during construction unless an Encroachment Permit is obtained for placement in street.
19. Any new or required block walls and/or retaining walls shall be shown on the grading plans. Cross sections shall show vertical and horizontal relations of improvements and property line. Block walls shall be designed in accordance to City standards or designed by a professional registered engineer.
20. All trash container areas shall meet the following requirements:
  - Paved with an impervious surface, designed not to allow run-on from adjoining areas, designed to divert drainage from adjoining roofs and pavements diverted around the area, screened or walled to prevent off-site transport of trash;
  - Provide solid roof or awning to prevent direct precipitation;
  - Connection of trash area drains to the municipal storm drain system is prohibited;
  - Potential conflicts with fire code and garbage hauling activities should be considered in implementing this source control;

- See CASQA Storm Water Handbook Section 3.2.9 and BMP Fact Sheet SD-32 for additional information.
  - The trash shall be located to allow pick-up and maneuvering, including turnarounds, in the area of the enclosures.
21. Grading fees shall be calculated based on the current fee schedule at the time of permit issuance.
22. The applicant shall remove the existing landscape within sidewalk area along Bixby Avenue and construct street frontage improvements as identified below. All landscaping installed within the public rights-of-way shall be maintained by the applicant/property owner for the life of the project in a manner meeting the approval of the City Engineer.

Bixby Avenue

- Remove the existing substandard driveway approaches and existing landscaping on Bixby Avenue and construct new curb, gutter, landscape, and sidewalk.
- The new driveway approach to the site shall be constructed in accordance with City of Garden Grove Standard Plan B-121. Standard Plan B-121 calls for a minimum width of 30-feet with any deviation from the standard to be approved by the City Engineer and detailed on the plan showing all modifications.
- Construct 6" curb and gutter along the property frontage at 20 feet from centerline in accordance with City Standard Plan B-113 (Type D-6).
- Construct a 5-foot sidewalk adjacent to the right-of-way line and a 5-foot landscape parkway adjacent to the street curb in accordance with City Standard Plan B-105. The area between the sidewalk and curb shall be landscaped per the direction of the Planning Services Division.

**Garden Grove Fire Department**

The following provisions of the Garden Grove Fire Department and the California Fire Code shall be met:

23. Fire sprinkler system is required throughout each apartment building per the California Fire Code and adopted City standards (NFPA). NFPA 13D compliant system is required throughout with a density and configuration as required by that standard. Sprinkler systems shall meet further City water standards as determined by the fire and water departments (i.e., testable above ground double check valves, fire flow water meters if required).



24. Smoke/CO alarm system shall be provided and interconnected; interconnectivity shall exist with fire sprinkler system also, as per NFPA 72. Life safety and fire sprinkler alarm system shall comply with NFPA 72 requirements.
25. Fire hydrant(s) shall be provided on-site, number of hydrants and locations are subject to Fire Department and Water Services Department approval. The fire hydrant(s) shall be on a loop system approved by the Fire Department. The fire hydrants and an all-weather road, compliant with the California Fire Code, shall be installed and fully operational prior to any combustible material being delivered to the site.
26. All Fire related aspects of the proposed project shall comply with applicable California Fire Codes and the California Building Codes.
27. There shall be a minimum of 20-foot clear access within the drive aisle and emergency vehicle turn-around area. In addition, pedestrian access shall be available along the west and east side of the development to facilitate secondary access requirements.

#### **Building Services Division**

28. The homes shall be designed to comply with applicable California Building Codes.

#### **Public Work's Water Services Division**

The following provisions of the Garden Grove Public Work's Water Services Division shall be met:

29. New water service installations 2" and smaller, shall be installed by the City of Garden Grove at owner's/developer's expense. Installation shall be scheduled upon payment of applicable fees, unless otherwise noted. Fire services and larger water services 3" and larger, shall be installed by developer/owner's contractor per City Standards.
30. Water meters shall be located within the Bixby right-of-way. Fire services and large water services 3" and larger, shall be installed by contractor with class A or C-34 license, per City water standards and inspected by approved Public Works inspection.
31. A Reduced Pressure Principle Device (RPPD) backflow prevention device shall be installed for meter protection. The landscape system shall also have RPPD device. Installation shall be per City Standards and shall be tested by a certified backflow device tester immediately after installation. Cross connection inspector shall be notified for inspection after the installation is completed. Applicant/property owner shall have RPPD device tested once a

year thereafter by a certified backflow device tester and the test results to be submitted to Public Works, Water Services Division. Property owner must open a water account upon installation of RPPD device.

32. Any new or existing water valve located within new concrete driveway or sidewalk construction shall be reconstructed per City Standard B-753.
33. Fire service shall have above ground backflow device with a double check valve assembly. Device shall be tested immediately after installation and once a year thereafter by a certified backflow device tester and the results to be submitted to Public Works, Water Services Division. Device shall be on private property and is the responsibility of the property owner. The above ground assembly shall be screened from public view as required by the Planning Division.
34. Location and number of fire hydrants shall be as required by Water Services Division and the Fire Department. Private fire hydrant must be operational prior to foundation pour.
35. Applicant shall install new sewer manhole and 6" lateral with clean out at right-of-way line. Lateral in public right-of-way shall be 6" min. dia., extra strength VCP with wedgelock joints. On-site private sewer installation shall be per California Plumbing Code.
36. Applicant shall abandon any existing unused sewer lateral(s) at street right-of-way on the property owner's side. The sewer pipe shall be capped with an expansion sewer plug and encased in concrete.

#### **Planning Services Division**

37. The applicant shall submit a detailed landscape and irrigation plan of all landscape areas, including the parkway area behind the new sidewalks. The plan shall be submitted to and be approved by the Community and Economic Development Department, Planning Services Division prior to the issuance of any permit for construction. Said plan shall include substantial plantings that create a natural setting and include type (both common and botanical names), size, location, and quantity of all plant material. The landscaping shall be planted prior to the finalization of the permit for construction. The landscape plan shall also include the following:
  - a. The landscaping plan shall comply with all the landscaping requirements as specified in Title 9 of the City of Garden Grove Municipal Code. All landscape irrigation shall comply with the City's Landscape Ordinance and associated Water Efficiency Guidelines.

- b. Trees planted within ten (10) feet of any public right-of-way shall be planted in a root barrier shield. All landscaping along street frontages adjacent to driveways shall be of the low height variety to ensure safe sight clearance. The number of street trees to be planted along Bixby Avenue shall be incorporated into the front landscape setback, no street trees will be planted in the sidewalk, unless required by the City's Public Work's Department. The landscape plan shall maximize the plantings along the perimeter wall where planters are possible. There shall be vine plantings along the length of the perimeter walls. The vines shall be mainly perennial and evergreen with some flowering, deciduous types interspersed.
  - c. The front landscape area shall reflect the existing character of the site with abundant tropical plantings and shade trees.
  - d. A complete, permanent, and automatic remote control irrigation system shall be provided for all landscape areas shown on the plan. Subsurface irrigation systems are encouraged. The irrigation plan for any trees planted in the setback areas adjacent to the sidewalks and in the parking lot shall have a deep-water irrigation system that shall be specified on the landscape plan. A detail of the deep-water irrigation system shall be provided for review. If sprinklers are used in other areas, they shall be low flow/precipitation sprinkler heads for water conservation.
  - e. All above ground utilities (e.g., water backflow devices, electrical transformers, irrigation equipment, etc.) shall be shown on the landscaping plan and shall be screened from view by appropriate plantings.
  - f. The applicant is responsible for the installation of all landscaping, irrigation, and other site improvements on the property. Said responsibility shall extend to all landscaped areas, the playground, the landscape setbacks, sidewalk, curb and pavement of the site.
38. A Density Bonus Housing Agreement, pursuant to Ordinance 2668 and Section 9.12.030.070 (Density bonuses and other incentives for affordable housing) (Subsection I – "Density Bonus Housing Agreement") of Title 9, shall be prepared by the City, at the applicant's/property owner's expense. The Density Bonus Housing Agreement shall be approved by the City Council and recorded prior to issuance of a building permit for any structure in the housing development. The Density Bonus Housing Agreement shall run with the land and bind on all future owners and successors in interest. The Density Bonus Housing Agreement shall include, but not limited to, the following:
- a. The total number of units approved for the Housing Development, the number, location, and level of affordability of target units, and the number of density bonus units.

- b. Standards for determining affordable rent or affordable ownership cost for the target units.
  - c. The location, unit size in square feet, and number of bedrooms of target units.
  - d. Provisions to ensure affordability for 55 years pursuant to Government Code section 65915 and otherwise in accordance with Subsection G of section 9.12.030.070.
  - e. A schedule for completion and occupancy of target units in relation to construction of non-restricted units.
  - f. A description of any concessions or incentives or waivers and modifications being provided by the City.
  - g. A description of remedies for breach of the agreement by either party. The City may identify tenants or qualified purchasers as third party beneficiaries under the agreement.
  - h. Procedures for qualifying tenants and prospective purchasers of target units.
  - i. Any other provisions to ensure implementation and compliance with section 9.12.030.070.
  - j. Procedures for establishing affordable rent, filling vacancies, and maintaining target units for eligible tenants.
  - k. Provisions requiring verification of household incomes.
  - l. Provisions requiring maintenance of records to demonstrate compliance with section 9.12.030.070.
  - m. The property owner shall restrict tenancy occupancy to a "2 + 1" formula, 2 persons per bedroom plus one additional person (ex: a two bedroom unit can only house five persons).
  - n. The property owner shall provide a professional caretaker, as defined and required by Title 25, Division 4, Article 5, Section 42 of the State Housing Law Regulations.
39. Hours and days of construction and grading shall be as follows as set forth in the City of Garden Grove's Municipal Code Section 8.47.010 referred to as the County Noise Ordinance as adopted:

- a. Monday through Saturday - not before 7 a.m. and not after 8 p.m. (of the same day).
  - b. Sunday and Federal Holidays may work same hours, but subject to noise restrictions as stipulated in section 8.47.010 of the Municipal Code.
40. The approval and effectiveness of Site Plan No. SP-031-2016 shall be expressly contingent upon the adoption and effectiveness of a binding Development Agreement between the applicant and/or property owner and the City of Garden Grove.
41. All lighting structures shall be placed so as to confine direct rays to the subject property. All exterior lights shall be reviewed and approved by the Planning Division. Lighting adjacent to residential properties shall be restricted to low decorative type wall-mounted lights, or a ground lighting system. Lighting shall be provided throughout all private drive aisles and entrances to the development per City standards for street lighting. Lighting in the common areas shall be directed, positioned, or shielded in such manner so as not to unreasonably illuminate the window area of nearby residences.
42. The applicant shall submit detailed plans showing the proposed location of utilities and mechanical equipment to the Community and Economic Development Department for review and approval prior to Building Division Plan Check. The project shall also be subject to the following:
- a. All on-site and off-site utilities (off-site refers to the areas within public right-of-way to the center line of the streets adjacent to the subject property) within the perimeter of the site and to the centerline of the adjacent streets shall be installed or relocated underground.
  - b. Above-ground utility equipment (e.g., electrical, gas, telephone, cable TV) shall not be located in the street setbacks, within the common areas along Dale Street, or any parking areas, and shall be screened to the satisfaction of the Community and Economic Development Department.
  - c. No roof-mounted mechanical equipment, including, but not limited to, dish antennas, shall be permitted unless a method of screening complementary to the architecture of the building is approved by the Community and Economic Development Department prior to the issuance of building permits. Said screening shall block visibility of any roof-mounted mechanical equipment from view of public streets and surrounding properties.
  - d. All ground- or wall-mounted mechanical equipment shall be screened from view from any place on or off the site.

43. Each Unit shall have phone-jacks and cable-TV in all rooms, except any laundry area, hallways, and bathrooms.
44. All units shall maintain the ability to park two cars within the garages at all times. Garages shall not be converted to any other use. There shall be no business activities, day care, or garage sales conducted within or from the garages. Parking spaces in the garages shall be made available to the occupants of the unit at all times. The applicant/property owner shall ensure that this condition is complied with at all times by tenants of the units and shall include notice of this requirement in all lease agreements.
45. The main drive aisle, which runs through the middle of the property, serves the entire development for vehicular circulation. The applicant shall utilize effective signage, and/or other acceptable means (i.e., a painted/marked red fire lane), to communicate to residents and guests that there shall be no parking in front of garages or anywhere within the drive aisle, except for within the designated open guest parking spaces. Additionally, there shall be no long term parking of vehicles in the open guest parking spaces nor shall open guest parking spaces be reserved for any particular units.
46. The applicant/property owner shall abate all graffiti vandalism within the premises. The property owner shall implement best management practices to prevent and abate graffiti vandalism within the premises throughout the life of the project, including, but not limited to, timely removal of all graffiti, the use of graffiti resistant coatings and surfaces, the installation of vegetation screening of frequent graffiti sites, and the installation of signage, lighting, and/or security cameras, as necessary. Graffiti shall be removed/eliminated by the property owner as soon as reasonably possible after it is discovered, but not later than 72 hours after discovery.
47. Each unit shall be provided with an air conditioning condensing unit so that there are no wall-mounted, window mounted, or roof type air conditioning systems on the building.
48. All units shall be equipped with trash compactors and shall provide a minimum of three cubic feet of space for the collection and storage of refuse and recyclable material. All exterior collection areas shall be located within a screened yard.
49. Each unit shall have a separate area for storage having a minimum of three hundred (300) cubic feet of private and secure space. This storage may be located within the enclosed garages, provided that it does not interfere with automobile parking.
50. Enhanced concrete treatment shall be provided at a 20-foot depth within the entry drive from Bixby Avenue. Concrete treatment and color shall be

approved by the Community and Economic Development Department prior to issuance of building permits.

51. Storage of boats, recreational vehicles, or commercial vehicles on the property shall be prohibited. The applicant/property owner shall ensure that this condition is complied with at all times by tenants of the units and shall include notice of this requirement in all lease agreements.
52. The applicant shall comply with all provisions of the Community and Economic Development Department including, but not limited to, the following:
  - a. The facades of the units shall be designed with sound attenuation features including the use of dual pane windows and limiting, when possible, the use of windows and vents. These features shall be approved by the Community and Economic Development Department prior to the issuance of building permits.
  - b. Prior to the finalization of working drawings for Planning Division, Engineering Division, and Building Division Plan Check, the developer shall submit to the Community and Economic Development Department detailed and dimensioned plot plans, floor plans, exterior elevations, and landscape plans which reflect the Conditions of Approval for Site Plan No. SP-031-2016. The plans shall indicate cross-sections of all streets within the development, landscape materials, wall materials, and building materials proposed for the project. Each unit shall have phone jacks and cable-TV outlets in all rooms, except the laundry area, hallways, and bathrooms. Mechanical equipment, including air conditioning units, Jacuzzi spa equipment, sump pump, etc., shall not be located closer than 5-feet of any side or rear property line and shall not be located in the front landscape setback. Air conditioning units may be placed adjacent to or in front of the dwelling units provided the location does not obstruct, impede, or hinder any vehicle traffic or pedestrian access to any unit.
53. Any new or required block walls and/or retaining wall(s) shall be shown on the grading plans. Block walls shall be developed to City Standards or designed by a Registered Engineer and shall be measured from on-site finished grade. The applicant shall provide the following:
  - a. Decorative masonry walls are required along the west, north, and east property lines and shall be constructed to a minimum height of 6'-0", as measured from highest point of finished grade. These walls shall use decorative masonry or stucco block with decorative caps, subject to the Community and Economic Development Department's approval.
  - b. The applicant shall work in good faith with the existing property owners along the project perimeter in designing and constructing the required

perimeter block walls. This requirement is to avoid having double walls and minimize any impact that it might cause to the existing landscaping on the neighbor's side as much as possible. The perimeter block wall shall be constructed and situated entirely within the subject property. In the event that the applicant cannot obtain approval from the property owners, the applicant shall construct the new wall with a decorative cap to be placed between the new and existing walls. Furthermore, the outward facing portion of the new wall shall be compatible in design and match the color of the existing wall it is abutting. In the event the location of a new wall adjacent to an existing wall or fence has the potential to affect the landscape planter, then the Developer shall work with City Staff to address this situation. Additionally, the applicant shall work in good faith with the existing property owners along the project perimeter in designing and constructing any required perimeter blocks walls and/or retaining walls so as not to construct new walls that unreasonably cause shade and shadow issues to nearby homes or are unreasonably tall in height, as measured from grade on the side of the neighboring properties. The applicant shall work with the City to mitigate any such occurrences and issues relating to any walls, subject to final review and approval by the City.

54. Construction activities shall adhere to SCAQMD Rule 403 (Fugitive Dust) that includes dust minimization measures, the use of electricity from power poles rather than diesel or gasoline powered generators, and the use methanol, natural gas, propane or butane vehicles instead of gasoline or diesel powered equipment, where feasible. Also, the use of solar or low-emission water heaters, use low-sodium parking lot lights, and ensure compliance with Title 24.
55. The common recreation area improvements, including the design of the play equipment, shall be reviewed and approved by the Community and Economic Development Department, Planning Division, prior to issuance of building permits. The improvements within the common open space areas shall include a turf area, benches, barbecue, child's play equipment, and related equipment and improvements.
56. The emergency vehicle turn-around area shall be painted with cross hatched markings to be designated as a "No Parking" zone, and exclusive for fire truck access only.
57. Building color and material samples shall be submitted to the Planning Division for review and approval prior to issuance of building permits. The buildings shall include architectural enhancements such as multi-toned stuccoed exteriors with window and door trim, stone veneer, decorative paneled front doors, shutters, decorative wrought iron railings, and varied rooflines with tile roofing material.



58. No security fencing/gate shall be permitted to be installed within the entry of the project, unless a vehicular turn-around area meeting Public Work's Engineering Division requirements can be accommodated.
59. All recreation areas, landscaping along the interior project street and entryway, landscaped areas in all common areas, and any landscaping within the public right-of-ways shall be maintained for the life of the project.
60. The applicant shall, as a condition of Project approval, at its sole expense, defend, indemnify and hold harmless the City, its officers, employees, agents and consultants from any claim, action, or proceeding against the City, its officers, agents, employees and/or consultants, which action seeks to set aside, void, annul or otherwise challenge any approval by the City Council, Planning Commission, or other City decision-making body, or City staff action concerning Site Plan No. SP-031-2016 and Development Agreement No. DA-004-2016 (collectively, the "Project entitlements"). The applicant shall pay the City's defense costs, including attorney fees and all other litigation related expenses, and shall reimburse the City for court costs, which the City may be required to pay as a result of such defense. The applicant shall further pay any adverse financial award, which may issue against the City including but not limited to any award of attorney fees to a party challenging such project approval. Notwithstanding the foregoing, in the event any legal action or proceeding is filed against the City and/or applicant, seeking to attack, set aside, void or annul any of the Project entitlements, applicant shall have the right and obligation to either: (1) defend the City with legal counsel mutually selected by the applicant and the office of the City Attorney; or (2) request that the City rescind the entitlement approvals, in which case the applicant would have no obligation to defend or indemnify the City; however, applicant shall reimburse the City for any costs incurred or assessed against the City as a result of the filing of such legal action or proceeding, provided the City acts promptly to rescind the entitlements.
61. The Conditions of Approval set forth herein include certain development impact fees and other exactions. Pursuant to Government Code §66020(d), these Conditions of Approval constitute written notice of the amount of such fees. The applicant is hereby notified that the 90-day protest period, commencing from the effective date of approval of Site Plan No. SP-031-2016, has begun.
62. During construction, if paleontological or archaeological resources are found, all attempts will be made to preserve in place or leave in an undisturbed state in compliance with CEQA.

ORDINANCE NO.

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF GARDEN GROVE  
ADOPTING DEVELOPMENT AGREEMENT NO. DA-004-2016 BETWEEN THE CITY OF  
GARDEN GROVE AND TONY LE AND DUNG NGUYEN

***City Attorney Summary***

***This Ordinance approves a Development Agreement between the City of Garden Grove and Tony Le and Dung Nguyen, the developer of a 10-unit multiple-family residential development (with three (3) units reserved for low-income housing) proposed to be located on the north side of Bixby Avenue, east of Gilbert Street, at 9691 Bixby Avenue. The agreement provides that the developer will be entitled to build the project in accordance with the land use entitlement approved pursuant to Site Plan No. SP-031-2016 for a period of 4 years. The agreement further provides for a development agreement payment to the City of Garden Grove in an amount not to exceed \$19,160.00.***

THE CITY COUNCIL OF THE CITY OF GARDEN GROVE HEREBY FINDS AND DETERMINES AS FOLLOWS:

WHEREAS, the City of Garden Grove has received an application from Bryson Nguyen for Development Agreement No. DA-004-2016 for the construction of a 10-unit, two-story apartment complex, with a 25% affordable housing density bonus for "low-income" families, on a 36,121 square foot site with related improvements on that certain real property located on the north side of Bixby Avenue, east of Gilbert Street, at 9691 Bixby Avenue, Assessor's Parcel No. 133-102-24 (the "Project"); and

WHEREAS, pursuant to a legal notice, a Public Hearing was held by the City Council on January 24, 2017, and all interested persons were given an opportunity to be heard; and

WHEREAS, Development Agreement No. DA-004-2016 is consistent with the R-2 (Limited Multiple-Family Residential) zoning, including the goals and policies of the Garden Grove General Plan; and

1. WHEREAS, The City of Garden Grove has determined that this action is exempt pursuant to Section 15332 (In-Fill Development Projects) of the California Environmental Quality Act.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF GARDEN GROVE DOES ORDAIN AS FOLLOWS:

Section 1.     Recitals. The City Council finds that the above recitations are true and correct.

Section 2.     Environmental Review. Pursuant to CEQA, the City Council has determined that this action is exempt pursuant to Section 15332 (In-Fill Development Projects) of the California Environmental Quality Act.

Section 3.     Approval. Development Agreement No. DA-004-2016 is hereby adopted for property located on the on the north side of Bixby Avenue, east of Gilbert Street, at 9691 Bixby Avenue, Assessor's Parcel No. 133-102-24. A copy of Development Agreement No. DA-004-2016 is attached to this Ordinance and is on file in the City Clerk's Office.

Section 4.     Recording. Pursuant to California Government Code Section 65868.5, the City Clerk shall record a copy of the Development Agreement with the County Recorder for the County of Orange within 10 days after the Development Agreement is executed.

Section 5.     Severability. 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 6.     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.

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To:	Scott C. Stiles	From:	Kingsley Okereke
Dept.:	City Manager	Dept.:	Finance
Subject:	Approval of the 2017 Investment Policy; re-appointment of a City Treasurer and a Deputy City Treasurer; and Delegation of Investment Authority. (Action Item)	Date:	1/24/2017

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**OBJECTIVE**

To comply with California Government Code Section 53646(a)(1), which states that the Treasurer or Chief Fiscal Officer of the local agency may annually render to the legislative body of that local agency a statement of investment policy, which the legislative body of the local agency shall consider at a public meeting; and to renew delegation to the City Treasurer and Deputy City Treasurer the authority to invest City funds.

**BACKGROUND**

The current City Investment Policy, has continued to remain in compliance with State guidelines including the following stipulations:

1. The Chief Fiscal Officer may submit a quarterly report to the legislative body that contains detailed information on all securities, investments, and monies of the local agency.
2. Prohibition of governments investing in inverse floaters.
3. Prohibition of governments investing in any security that could result in zero interest accrual if held to maturity.

Also, consistent with State guidelines, the City Council may renew the delegation of authority each year to the City Treasurer and to the Finance Director, or his designee, as Deputy City Treasurer, as the persons responsible for the investments. The City Council has delegated this authority by Resolution No. 9219-14 to said positions.

**DISCUSSION**

Prior to Chapter 889, Statutes of 2004 (AB 2853, Laird), California Government Code

Section 53646 required cities to annually render an investment policy to be considered at a public meeting. With the advent of AB 2853, the requirement to submit investment policies was made optional, although the Legislature still encourages the submittal of investment policies because of the public interest served. The Finance Director, acting as Deputy City Treasurer, provides the City Council a copy of the investment portfolio monthly. Also, the City's Investment Policy is presented to the City Council for review and approval at a public meeting annually. The Investment Policy outlines the City's investment guidelines and investing strategy. The Policy requires the City to hold the securities or have safekeeping by a recognized financial institution. Currently, U.S. Bank and Union Bank, N.A. (which is a custodial service completely separate from Union Bank operations) provide custodial/safekeeping services to the City.

The City Investment Policy applies to secure the investment principal, allows for ease of liquidation, and provides a reasonable return on the investments. In addition, the Investment Policy allows the City of Garden Grove to maintain sufficient cash so all payments due in at least the next six months may be made in a timely manner.

The requirements and strategies outlined in the City's Investment Policy have allowed the City of Garden Grove to have no losses in principal while maintaining a reasonable return on the portfolio. Last fiscal year the City's Investment Portfolio return was approximately 1.26%. All of the investments held in the portfolio at this time are either Federal Securities or invested in the Local Agency Investment Fund (LAIF).

#### FINANCIAL IMPACT

None.

#### RECOMMENDATION

It is recommended that the City Council take the following actions:

- Approve the attached 2017 Investment Policy;
- Re-appoint Kimberly A. Huy as City Treasurer, and Kingsley Okereke as the Deputy City Treasurer; and
- Renew delegation to the City Treasurer and Deputy City Treasurer the responsibility to invest or to reinvest City funds.

#### **ATTACHMENTS:**

<b>Description</b>	<b>Upload Date</b>	<b>Type</b>	<b>File Name</b>
2017 Investment Policy	1/5/2017	Backup Material	2017_INVESTMENT_POLICY.docx

# **City of Garden Grove**

## **INVESTMENT POLICY**

**2017**

### **CITY COUNCIL**

**STEVEN R. JONES, MAYOR**

**PHAT BUI, MAYOR PRO TEM**

**KRIS BEARD, COUNCIL MEMBER**

**JOHN R. O'NEILL, COUNCIL MEMBER**

**THU-HA NGUYEN, COUNCIL MEMBER**

**STEPHANIE KLOPFENSTEIN, COUNCIL MEMBER**

**KIM B. NGUYEN, COUNCIL MEMBER**

### **CITY MANAGER**

**SCOTT C. STILES**

**ASSISTANT CITY MANAGER/FINANCE DIRECTOR**

**KINGSLEY OKEREKE**

**City of Garden Grove  
11222 Acacia Parkway, Garden Grove, CA 92840**

# **CITY OF GARDEN GROVE INVESTMENT POLICY**

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# **CITY OF GARDEN GROVE**

## **INVESTMENT POLICY**

### **MISSION STATEMENT**

It is the policy of the City of Garden Grove to invest public funds in a manner that will provide in priority order, maximum security, adequate liquidity and sufficient yield, while meeting the daily cash flow demands of the City of Garden Grove and conforming to all sections of California Government Code Section 53600, et seq., and related statutes and regulations governing the investment of public funds.

#### **1. PURPOSE**

This statement is intended to provide direction for the investment of the City of Garden Grove's temporary idle cash under the prudent investor standard. California Government Code Section 53600.3 defines the prudent investor as an individual who is authorized to make investment decisions as trustees, and therefore they are considered fiduciaries subject to the prevailing standard. Furthermore, the trustee is to act to safeguard the principal and maintain the liquidity needs of the agency.

The City's ultimate investment goal is to invest public funds in a manner which will provide the highest investment return with the maximum security while meeting the daily cash flow demands of the entity and conforming to all state and local statutes governing the investment of public funds.

#### **2. SCOPE**

This investment policy applies to all financial assets of the City of Garden Grove. These funds are accounted for in the City of Garden Grove's audited Comprehensive Annual Financial Report (CAFR) and include all funds under the direction of the City. Bond Proceeds are excluded from this Policy. Investment of bond proceeds will be made in accordance with applicable bond indentures.

#### **3. PRUDENCE**

Investments shall be made with judgment and care, under circumstances then prevailing, which persons of prudence, discretion and intelligence exercise in the management of their own affairs, not for speculation, but for investment, considering the probable safety of their capital as well as the probable income to be derived.

The standard of prudence to be used by investment officials shall be the "prudent person" standard and shall be applied in the context of managing an overall portfolio. Investment officers acting in accordance with written procedures and this investment policy and exercising due diligence shall be relieved of personal



responsibility for an individual security's credit risk or market price changes, provided deviations from expectations are reported in a timely fashion and appropriate action is taken to control adverse developments.

#### **4. OBJECTIVES**

The City's funds shall be invested in accordance with all applicable City policies and codes, State statutes, and Federal regulations, and in a manner designed to accomplish the following objectives.

Section 53600.5 of the California Government Code defines the investment objectives of the investment of public funds and that the primary objective of a trustee is the safety of the principal of funds under its control. The secondary objective is to meet the liquidity needs of the depositor. The third objective is to achieve a return on the funds under its control.

##### **A. Safety**

Safety and the minimizing of risk associated with investing refers to attempts to reduce the potential for loss of principal, interest or a combination of the two. The first level of risk control is found in State law that restricts the particular type of investments permissible for municipalities. The second level of risk control is reduction of default risk by investing in instruments that appear upon examination to be the most credit worthy. The third level of risk control is reductions of market risk by investing in instruments that have maturities coinciding with dates of disbursements, thereby eliminating risk of loss from a forced sale. The City of Garden Grove only invests in those instruments that are considered very safe. Safety of principal is the foremost objective of the City of Garden Grove's Investment Program.

##### **B. Liquidity**

Liquidity refers to the ability to easily sell at any time with a minimal risk of losing some portion of principal or interest. Liquidity is an important quality for an investment to have, for at any time the City may have unexpected or unusual circumstances that result in larger disbursements than expected. When this occurs the existence of highly liquid investments allows the City to meet the cash requirements without unfavorable forced liquidation penalties. Generally investments and their maturities are selected in anticipation of disbursement needs. The City of Garden Grove's Investment Portfolio will remain sufficiently liquid to enable the City to meet all operating requirements which might be reasonably anticipated.

C. Yield

Yield is the potential dollar earnings an investment can provide, and also is sometimes described as the rate of return. To meet the objectives, the City of Garden Grove attempts to obtain the highest yield on its investments consistent with the preservation of principal and liquidity. The yield benchmark for the City is the 6 month Treasury Bill as listed in the Money Rates section of the Wall Street Journal.

**5. DELEGATION OF AUTHORITY**

The City invests in the spectrum of instruments allowable under the Government Code Section 53600 et seq. of the State of California. The City Council has delegated, by resolution No. 9219-14, the authority to invest with the City Finance Director and the appropriate assistants, subject to the limitations set forth in the Investment Policy and Investment Guidelines. (The City holds its public investor harmless for responsible investment transactions undertaken in accordance with the Investment Policy.)

**6. ETHICS AND CONFLICT OF INTEREST**

Officers and employees involved in the investment process shall refrain from personal business activity that could conflict with proper execution of the investment program, or which could impair their ability to make impartial investment decisions. Employees and investment officials shall disclose to the Finance Director of the City any material financial interest in financial institutions that conduct business with the jurisdiction, and they shall further disclose any large personal financial/investment positions that could be related to the performance of the City, particularly with regard to the time of purchases and sales.

**7. INVESTMENT GUIDELINES AND INVESTMENT STRATEGY**

The City of Garden Grove uses a set of written Investment Guidelines (Attachment 1) that define the procedures for investing within the directives of the Investment Policy. In accordance with the Investment Guidelines, Investment Strategy (Attachment 2) is used to maximize yield depending on market conditions.

**8. INVESTMENT INSTRUMENTS**

The City invests in the following investment instruments as approved by the California Government Code, Sections 53600 et seq. subject to the limitations stated in the City's Investment Guidelines and Investment Strategy:

1. Securities of the U. S. Government or its Agencies

An obligation of the U. S. Government, backed by the full faith and credit of the government. These securities are regarded as the highest quality of investment securities available in the U.S. securities market.

2. Federal Home Loan Bank (FHLB)

Members of the Home Loan Bank system issue consolidated bonds and discount notes as joint and severable obligations of the Home Loan Bank System. Although the banks operate under federal charter with government supervision, there is no explicit federal guarantee of Federal Home Loan Bank debt. The reserves against the debt, which must be maintained, are considerable and this investment is considered very safe.

3. Federal National Mortgage Association (FNMA)

FNMA purchases conventional mortgages which are generated from the sale of corporate obligations to private investors. Its strong secondary market is financed in part through issuance of short-term notes that resemble commercial paper. The notes range up to 360 days.

4. Federal Farm Credit Bank (FFCB)

Farm Credit Bonds are high credit quality bonds. The Farm Credit System's status as a Government-sponsored enterprise, results from its public mission and ties to the federal government; the traditionally strong governmental support of the agricultural sector; and the System's strong financial performance in recent years, including favorable earnings and strong capital ratios. Farm Credit Debt Securities are the joint and several obligations of the Farm Credit System Banks and are not obligations of and are not guaranteed by the United States or any Federal agency instrumentality, other than the Banks.

5. Local Agency Investment Fund (LAIF)

The LAIF is established by the State Treasurer for the benefit of local agencies in which their money is pooled as a method for managing funds.

6. Local Agency Bonds

Bonds, notes, warrants, or other evidences of indebtedness of any local agency within this state, including bonds payable solely out of the revenues from a revenue-producing property owned, controlled, or operated by the local agency, or by a department, board, agency, or authority of the local agency.

7. Certificate of Deposit (CD)  
A time deposit with a specific maturity evidenced by a certificate.
8. Bankers Acceptances  
A draft or bill of exchange accepted by a bank or trust company. The accepting institution guarantees payment of the bill, as well as the issuer.
9. Negotiated Certificates of Deposit  
Unsecured obligations of a financial institution, bank or savings and loan, bought at par value with the promise to pay face value plus accrued interest at maturity. They are high-grade negotiable instruments, paying a higher interest rate than regular certificates of deposit.
10. Commercial Paper  
An unsecured short-term promissory note issued by corporations, with maturities ranging from 2 to 180 days.
11. Repurchase Agreements (Overnight)  
An agreement of one party to purchase securities at a specified price from a second party and a simultaneous agreement by the first party to resell the securities at a specified price or at a specified later date.
12. Passbook Savings Account  
A savings account is an interest-bearing deposit account held at a bank or another financial institution that provides a modest interest rate.
13. Other investments that are, or may become, legal investments through the State of California Government Code.

## **9. DELIVERY**

All security transactions entered into by the City shall be conducted on a delivery-versus-payment (DVP) basis to ensure that securities are deposited in an eligible financial institution prior to the release of the funds. Securities will be held by a third party custodian designated by the Finance Director and evidenced by safekeeping receipts and monthly reports.

## **10. POLICY CONSTRAINTS**

The City operates its investment program with many State and self-imposed constraints. It does not speculate; it does not buy stocks or corporate bonds; it does not deal in futures or options; it does not purchase on margin through Reverse Repurchase Agreements. The weighted average life of the portfolio is

maintained within limits dictated by the cash flow needs of the City, the economy, and the Investment Guidelines. The City diversifies its investments to reduce potential default on market risks. The portfolio is carefully monitored to assure the prudent management of the portfolio.

#### **11. INVESTMENT CONTROLS**

The City has developed a System of Internal Investment Controls and a Segregation of Responsibilities of Investment Functions in order to assure an adequate system of internal control over the investment function.

The Finance Director shall establish an annual process of independent review by an external auditor. This review will provide internal control by assuring compliance with policies and procedures.

#### **12. INVESTMENT REPORTS**

The Finance Director renders a monthly Investment Report to the City Manager and City Council, through the Manager's Memo, showing the type of investment, institution, date of maturity, amount of deposit, current market value for all securities under the City control, rate of interest, amount of interest received during the month and Par Value. A graph is included which indicates the percent of the portfolio that is invested in each type of investment instrument.

## GLOSSARY

**ACCRUED INTEREST** – Interest earned but not yet received.

**AGENCIES** – Agencies of the Federal government set up to supply credit to various classes of institutions (e.g., S&L's, small business firms, students, farmers, housing agencies, etc.). Examples include Federal Home Loan Mortgage Corporation (FHLMC), Federal National Mortgage Association (FNMA), Federal Home Loan Bank (FHLB) and Federal Farm Credit Bank (FFCB).

**BANKERS' ACCEPTANCE (BA)** – A draft or bill of exchange accepted by a bank or trust company. The accepting institution guarantees payment of the bill as well as the issuer.

**BROKER/DEALER** – An individual or firm acting as principal in a securities transaction.

**CALLABLES** – Securities that the issuer has the right to redeem prior to maturity.

**CERTIFICATE OF DEPOSIT (CD)** – A time deposit with a specific maturity evidenced by a certificate. Large denomination CD's are typically negotiable.

**COLLATERAL** – Securities, evidence of deposit or other property which a borrower pledges to secure repayment of a loan. Also refers to securities pledged by a bank to secure deposits of public monies.

**COMMERCIAL PAPER** – Short term unsecured promissory note issued by a corporation (including limited liability companies) to raise working capital. These negotiable instruments are purchased at a discount to par value or at par value with interest bearing. Commercial paper is issued by corporations such as General Motors Acceptance Corporation, IBM, Bank of America, etc.

**COMPREHENSIVE ANNUAL FINANCIAL REPORT (CAFR)** – The official annual report of the City. It includes five combined statements for each individual fund and account group prepared in conformity with Generally Accepted Accounting Principles (GAAP). It also includes supporting schedules necessary to demonstrate compliance with finance-related legal and contractual provisions, extensive introductory material, and a detailed Statistical Section.

**COUPON** – a) The annual rate of interest that a bond's issuer promises to pay the bondholder on the bond's face value; b) a certificate attached to a bond evidencing interest due on a payment date.

**DELIVERY VS PAYMENT** – Delivery of securities with a simultaneous exchange of money.

**DEMAND ACCOUNT** – An account with a commercial bank from which check withdrawals may be made at any time.

**DISCOUNT** – The difference between the cost price of a security and its maturity when quoted at lower than face value. A security selling below original offering price shortly after sale also is considered to be at a discount.

**DIVERSIFICATION** – Dividing investment funds among a variety of securities offering independent returns.

**FEDERAL DEPOSIT INSURANCE CORPORATION (FDIC)** – A Federal agency that insures bank deposits in the United States against bank failure. The standard deposit insurance coverage limit is \$250,000 per depositor, per FDIC-insured bank, per ownership category.

**FEDERAL HOME LOAN BANKS (FHLB)** – The institutions that regulate and lend to savings and loan associations. The Federal Home Loan Banks play a role analogous to that played by the Federal Reserve Banks vis-à-vis member commercial banks.

**FEDERAL NATIONAL MORTGAGE ASSOCIATION (FNMA)** – FNMA, like GNMA was chartered under the Federal National Mortgage Association Act in 1938. FNMA is a Federal corporation working under the auspices of the Department of Housing and Urban Development (HUD). It is the largest single provider of residential mortgage funds in the United States. Fannie Mae, as the corporation is called, is a private stockholder-owned corporation. The corporation's purchases include a variety of adjustable mortgages and second loans, in addition to fixed-rate mortgages. FNMA's securities are highly liquid and are widely accepted. FNMA assumes and guarantees that all security holders will receive timely payment of principal and interest.

**LIQUIDITY** – A liquid asset is one that can be converted easily and rapidly into cash without a substantial loss of value.

**LOCAL AGENCY INVESTMENT FUND (LAIF)** – The aggregate of all funds from political subdivisions that are placed in the custody of the State Treasurer for investment and reinvestment.

**MARKET VALUE** – The price at which a security is trading, usually the liquidation value.

**MATURITY** – The date upon which the principal or stated value of an investment becomes due and payable.

**PAPER GAIN OR LOSS** – Term used for unrealized gain or loss on securities being held in a portfolio based on comparison of current market quotes and their original

cost. This situation exists as long as the security is held while there is a difference between cost value (book value) and the market value.

**PORTFOLIO** – Collection of securities held by an investor.

**PRUDENT PERSON RULE** – An investment standard. In some states, the law requires that a fiduciary, such as a trustee, may invest money only in a list of securities selected by the custody state—the so-called “legal list.” In other states, the trustee may invest in a security if it is one that would be bought by a prudent person of discretion and intelligence who is seeking a reasonable income and preservation of capital.

**RATE OF RETURN** – The yield obtainable on a security based on its purchase price or its current market price. This may be the amortized yield to maturity on a bond, the current income return.

**REPURCHASE AGREEMENT (REPO)** – A holder of securities sells these securities to an investor with an agreement to repurchase them at a fixed price on a fixed date. The security “buyer” in effect lends the “seller” money for the period of the agreement, and the terms of the agreement are structured to compensate them for this.

**REVERSE REPURCHASE AGREEMENT (REVERSE REPO)** – A reverse-repurchase agreement (reverse repo) involves an investor borrowing cash from a financial institution in exchange for securities. The investor agrees to repurchase the securities at a specific date for the same cash value plus an agreed upon interest rate. Although the transaction is similar to repo, the purpose of entering into a reverse repo is quite different. While a repo is a straightforward investment of public funds, the reverse repo is a borrowing.

**SAFEKEEPING** – The service provided by banks and trust companies for clients when the bank or trust company stores the securities, takes in coupon payments, and redeems issues at maturity.

**SPREAD** – a) The yield or price difference between the bid and offer on an issue; b) the yield or price difference between different issues.

**TREASURY BILLS** – A non-interest bearing discount security issued by the U.S. Treasury to finance the national debt. Most bills are issued to mature in three months, six months or one year.

**TREASURY BONDS** – U.S. Treasury securities that have initial maturities of more than ten years.

**TREASURY NOTES** – Intermediate-term coupon bearing U.S. Treasury securities having initial maturities of from one year to ten years.



**TRUSTEE** – A financial institution with trust powers that acts in a fiduciary capacity for the benefit of the bondholders in enforcing the terms of the bond contract.

**YIELD** – The rate of annual income return on an investment, expressed as a percentage. (a) Income Yield is obtained by dividing the current dollar income by the current market price for the security. (b) Net Yield or Yield to Maturity is the current income yield minus any premium above par or plus any discount from par in purchase price, with the adjustment spread over the period from the date of purchase to the date of maturity of the bond.

**YIELD CURVE** – Yield calculations of various maturities at a given time to observe spread difference.

**YIELD TO MATURITY** – The current coupon yield minus any premium above par, or plus any discount from par in the purchase price with the adjustment spread over the period from date of purchase to maturity.

## **INVESTMENT GUIDELINES**

INVESTMENT GUIDELINES STATE THE PARAMETERS OF HOW INVESTING IS TO BE ACCOMPLISHED.

### **1. CASH AVAILABILITY GUIDELINES**

A. Cash flow analysis is developed which serves as a basis for determining the cash available for investment and maturity dates needed to cover future disbursements.

B. A close rapport is maintained with all other departments having a significant impact on cash flow to ensure receipt of timely and accurate data.

C. Revenue receipts are consolidated into one bank account and invested on a pooled concept basis. This provides maximum interest with minimal accounting steps. Interest earnings are allocated according to fund cash and investment balances.

D. Active bank balances are kept as low as possible without jeopardizing good banking relationships by maintaining investment of available cash as near to 100 percent as possible.

E. Bank balances are obtained daily to assure fast, accurate, and detailed information.

F. Sufficient funds are maintained in very liquid investments to meet most unexpected contingencies.

### **2. INVESTING GUIDELINES**

A. Based on the economy a close working relationship is maintained with a list of well-established brokers, and bankers whose expertise is of assistance in making investing decisions.

B. Economic data, forecasts, and conditions are continuously obtained from financial experts in the field and evaluated as to impact on investing decisions.

C. Business journals are routinely reviewed and education programs attended to enhance knowledge and professional skills required managing an investment portfolio.

D. Only investments authorized by the Investment Policy are transacted.

E. Investments are diversified by (1) type, (2) institution, (3) length of maturity, and (4) broker/dealer/bank as is consistent with safety, liquidity, yield, and administrative cost.

F. Purchases of investments are made with the intent of holding the investments to maturity.

G. The City does not permit the purchase of securities on margin (the borrowing of funds via Reverse Repurchase Agreements using the security to be purchased as collateral).

H. Competitive bids are obtained and documented on all investments when practical.

I. Every investment transaction is documented and the procedure for monitoring is clearly defined.

J. Security purchases are maintained within statutory limits imposed by the California Government Code.

Current limits are:

Bankers Acceptances-30% and not over 180 days in maturity (53601-f)  
Commercial Paper - 15% (53601-g)  
Negotiated Certificates of Deposit - 30% (53601-h)

K. The weighted average life of the portfolio is maintained within limits dictated by the cash flow needs of the City and the economy.

L. Investment strategies are reviewed for possible changes at least quarterly. They are reviewed more frequently as changes in economic conditions dictate.

### **3. GUIDELINES FOR TYPES OF INVESTMENTS**

#### **A. CALIFORNIA STATE-LOCAL AGENCY INVESTMENT FUND**

A resolution of the City is on file with the State Treasurer, which permits maintaining an account in the Local Agency Investment Fund. Effective January 01, 2016, the maximum per account balance that can be held in the fund was increased from \$50 million to \$65 million. LAIF has a policy limiting the number of total deposit and withdrawals each month (currently it is a total of 15 transactions). Since periodically LAIF changes the maximum balance and the number of transactions allowed each month, the City will make the necessary adjustments to conform to any new requirements. Interest is paid quarterly on an average of what the fund earned for the quarter.

B. REPURCHASE AGREEMENTS (REPOS)

Repos are used only as a short-term investment not exceeding 30 days.

C. BANKERS ACCEPTANCES

Bankers Acceptances are mainly used for investments with a maturity of one to six months. The City will only invest in the 100 largest banks in the world (in terms of assets). Investment in any one institution will not exceed 10 percent of the City's portfolio. Investment in Bankers Acceptances will not exceed 30 percent of the City's portfolio as per State law. Maturities will be for 180 days or less.

D. TIME CERTIFICATES OF DEPOSITS (TCDs)

Only Time Certificates of Deposits that are insured for \$250,000 by FDIC, FLSIC, or fully collateralized as required by state law if over \$250,000 are purchased. Not more than five percent of the City's portfolio is invested in any one institution. Time Certificates of Deposit are kept in the City's safe, in a fire file or in an acceptable safekeeping account with a perfected interest in the City's name. The institution must be located in California.

E. COMMERCIAL PAPER

Commercial paper is a short-term unsecured promissory note issued by a corporation to raise working capital. Local agencies are permitted by state law to invest in commercial paper of "prime" quality of highest rank. The City of Garden Grove invests in high quality commercial paper for periods of one to ten days to maximize temporary idle funds.

F. TREASURY NOTES AND FEDERAL AGENCY SECURITIES

Investments in Treasury Notes and Federal Agency Securities are limited to those with maturity of five years or less.

**INVESTMENT STRATEGY**

1. When making an investment decision, the purchase of an investment is made with the intent of holding that investment to maturity.
2. Fully utilize the cash flow projection to balance the liquidity needs at all times.
3. Maintain close working relationships with bankers and brokers, and contact several with each investment transaction.
4. Obtain, at least weekly, economic forecasts from bankers, brokers or other financial experts in the field.
5. Keep the active bank balance at the lowest possible level without jeopardizing good bank relationships.
6. Maintain sufficient funds in overnight investments to meet current cash flow.
7. Review investment plan and strategy annually or as the need arises.
8. Review investment strategy quarterly and update as needed.

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To:	Scott C. Stiles	From:	Kingsley Okereke
Dept.:	City Manager/General Manager	Dept.:	Finance
Subject:	Adoption of Resolutions approving a Debt Management Policy required by Senate Bill 1029. (Joint action with the Sanitary District) ( <i>Action Item</i> )	Date:	1/24/2017

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**OBJECTIVE**

For the City Council and Sanitary District to jointly consider adoption of Resolutions to approve a Debt Management Policy to comply with Government Code Section 8855, as amended by Senate Bill 1029.

**BACKGROUND**

In September 2016, the Governor signed Senate Bill (SB) 1029 (California Debt and Investment Advisory Commission: Accountability Reports) into law. Senate Bill 1029 requires issuers of public debt to adopt a Debt Management Policy to provide guidance in the issuance and management of their debt. Effective January 1, 2017, Government Code section 8855(i) requires any issuer of public debt to provide the California Debt and Investment Advisory Commission (CDIAC), no later than 30 days prior to the sale of any debt issue, a report of the proposed issuance which includes notification to CDIAC that the issuing agency has adopted debt policies concerning the use of debt and that the proposed debt is consistent with those policies.

The intent of this bill was to facilitate improved financial transparency and accessibility to information about public debt. SB 1029 requires that debt management policies reflect local, state, and federal laws and regulations. It was recommended that public agency debt management policies incorporate recommendations set forth by the Government Finance Officers Association (GFOA). The attached Debt Management Policy is being brought forward to City Council to comply with state law as it relates to debt issuance requirements set forth by SB 1029. The Debt Management Policy will apply to the City, the Successor Agency to the Garden Grove Agency for Community Development, the Garden Grove Sanitary District, the Garden Grove Housing Authority, the Garden Grove Public Financing Authority, or any other public agency or non-profit public benefit corporation

affiliated with the City.

## DISCUSSION

To comply with the new law, it is recommended that the City of Garden Grove and the Garden Grove Sanitary District adopt a comprehensive debt management policy. The proposed Debt Management Policy is consistent with Government Code section 8855(i) requirements and is also consistent with GFOA's recommendations and reflects objectives that establish parameters for the issuance and administration of City debt.

SB 1029 sets out key objectives that should be incorporated in a Debt Management Policy. The objectives are to:

- Minimize debt service and issuance costs
- Maintain access to cost-effective borrowing
- Achieve and maintain highest reasonable credit rating
- Full and timely repayment of debt
- Maintain full and complete financial disclosure and reporting
- Ensure compliance with state and federal laws and regulations

By adopting the Resolution to approve this Debt Management Policy the City will comply with the key objectives of SB 1029.

## FINANCIAL IMPACT

None.

## RECOMMENDATION

It is recommended that the City Council:

- Adopt the Resolution approving the Debt Management Policy as required by Senate Bill 1029.

It is recommended that the Sanitary District:

- Adopt the Resolution approving the Debt Management Policy as required by Senate Bill 1029.

By: Alex Trinidad, Senior Accountant

## **ATTACHMENTS:**

<b>Description</b>	<b>Upload Date</b>	<b>Type</b>	<b>File Name</b>
City Resolution Adopting Debt Management	1/13/2017	Resolution Letter	GG_RESO_ADOPTING_DEBT_MANAGEMENT_POLICY.docx

Policy

GGSD Resolution

Adopting Debt  
Management

1/13/2017

Resolution Letter GGSD\_RESO\_ADOPTING\_DEBT\_MANAGEMENT\_POLICY.docx

Policy

Debt Management  
Policy

1/19/2017

Backup Material Debt\_Management\_Policy.pdf



RESOLUTION NO. \_\_\_\_\_

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF  
GARDEN GROVE ADOPTING A DEBT MANAGEMENT POLICY

WHEREAS, the City Council recognizes that cost-effective access to the capital markets depends on prudent management of the City's debt program; and

WHEREAS, the City wishes to set parameters for issuing debt, managing the debt portfolio and providing guidance to decision makers; and

WHEREAS, the Government Finance Officers Association recommends as a best practice for government agencies to adopt a debt management policy; and

WHEREAS, SB 1029 (2016) amended Government Code 8855 to require the City to certify that it has adopted a debt management policy prior to issuing new debt.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Garden Grove that the DEBT MANAGEMENT POLICY attached hereto as Exhibit "A" be approved and adopted.

PASSED, APPROVED, AND ADOPTED BY THE CITY COUNCIL OF THE CITY OF GARDEN GROVE THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2017.

RESOLUTION NO. \_\_\_\_\_

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE  
GARDEN GROVE SANITARY DISTRICT ADOPTING A DEBT  
MANAGEMENT POLICY

WHEREAS, the Board recognizes that cost-effective access to the capital markets depends on prudent management of the District's debt program; and

WHEREAS, the District wishes to set parameters for issuing debt, managing the debt portfolio and providing guidance to decision makers; and

WHEREAS, the Government Finance Officers Association recommends as a best practice for government agencies to adopt a debt management policy; and

WHEREAS, SB 1029 (2016) amended Government Code 8855 to require the District to certify that it has adopted a debt management policy prior to issuing new debt; and

WHEREAS, the City of Garden Grove City Council has concurrently herewith adopted the same debt management policy on behalf of the City's related agencies; and

WHEREAS, the City of Garden Grove City Council serves as the ex officio Board of Directors of the District.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Garden Grove Sanitary District that the DEBT MANAGEMENT POLICY adopted by the City of Garden Grove, a copy of which is attached hereto as Exhibit "A" be approved, adopted, and applicable to debt issued by the District.

PASSED, APPROVED, AND ADOPTED BY THE BOARD OF DIRECTORS OF THE GARDEN GROVE SANITARY DISTRICT THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2017.

## **DEBT MANAGEMENT POLICY**

The Debt Management Policy (the "Debt Policy") of the City of Garden Grove (the "City") and the entities listed in the following paragraph was approved by the City Council on \_\_\_\_\_. The Debt Policy may be amended or waived pursuant to Section F by City Council as it deems appropriate from time to time in the prudent management of the debt of the City.

The Debt Policy will also apply to any debt issued by the Successor Agency to Garden Grove Agency for Community Development, Garden Grove Sanitary District, Garden Grove Housing Authority, Garden Grove Public Financing Authority, or any other public agency or non-profit public benefit corporation affiliated with the City.

### **1. Debt Management Objectives**

The Debt Policy sets objectives in the issuance and management of debt by the City of Garden Grove or its affiliated entities. The Debt Policy shall govern all debt undertaken by the City and its affiliated entities.

The City recognizes that a fiscally prudent debt policy is required in order to:

- Maintain the City's sound financial position;
- Ensure the City has the flexibility to respond to changes in future service priorities, revenue levels, and operating expenses;
- Protect the City's credit-worthiness; and
- Ensure that the City's debt is consistent with the City's planning goals and objectives and capital improvement program or budget, as applicable.

The main objectives are to establish conditions for the use of debt:

- To ensure that debt capacity and affordability are adequately considered
- To minimize the City's interest and issuance costs
- To maintain the highest possible credit rating
- To provide complete financial disclosure and reporting
- To maintain financial flexibility for the City.

Debt, properly issued and managed, is a critical element in any financial management program. It assists in the City's effort to allocate limited resources to provide the highest quality of service to the public. A properly managed debt program promotes economic growth and enhances the vitality of the City of Garden Grove for its residents and businesses.

### **2. Policies**

#### **A. Purposes For Which Debt May Be Issued**

The City will consider the use of debt financing primarily for capital improvement

projects (CIP) when the project's useful life will equal or exceed the term of the financing or otherwise comply with Federal tax law requirements and when resources are identified sufficient to fund the debt service requirements. An exception to this CIP driven focus is the issuance of short-term instruments such as tax and revenue anticipation notes, which are to be used for prudent cash management purposes and conduit financing, as described below. Bonded debt should not be issued to finance normal operating expenses.

If a department has any project which is expected to use debt financing, the department director is responsible for expeditiously providing the City Manager and the Director of Finance with reasonable cost estimates, including specific revenue sources that will provide payment for the debt service. This will allow an analysis of the project's potential impact on the City's debt capacity and limitations. The department director shall also provide an estimate of any incremental operating and/or additional maintenance costs associated with the project and identify sources of revenue, if any, to pay for such incremental costs.

(i) Long-Term Debt. Long-term debt may be issued to finance or refinance the construction, acquisition, and rehabilitation of capital improvements and facilities, equipment, and land to be owned and/or operated by the City.

(a) Long-term debt financings are appropriate when the following conditions exist:

- When the project to be financed is necessary to provide basic services; and
- When the project to be financed will provide benefit to constituents over multiple years; and
- When total debt does not constitute an unreasonable burden to the City and its taxpayers and ratepayers; or
- When the debt is used to refinance outstanding debt in order to produce debt service savings or to realize the benefits of a debt restructuring.

(b) Long-term debt financings will not generally be considered appropriate for current operating expenses and routine maintenance expenses.

(c) The City may use long-term debt financings subject to the following conditions:

- The project to be financed has been or will be approved by the City Council or the governing board of the appropriate affiliated entity;
- The City estimates that sufficient income or revenues will be available to service the debt through its maturity;
- The City determines that the issuance of the debt will comply with the applicable requirements of state and federal law; and
- The City considers the improvement/facility to be of vital, time-sensitive need of the community and there are no plausible alternative financing sources.

(d) Periodic reviews of outstanding long-term debt will be undertaken to identify refunding opportunities. Refunding will be considered (within federal tax law

constraints, if applicable,) if and when there is a net economic benefit of the refunding. Refundings which are non-economic may be undertaken to achieve City objectives relating to changes in covenants, call provisions, operational flexibility, tax status of the issuer, or the debt service profile.

In general, refundings which produce a net present value aggregate savings of at least three (3) percent of the refunded debt will be considered economically viable. Refundings which produce a net present value aggregate savings of less than three (3) percent or negative savings will be considered on a case-by-case basis, and are subject to City Council approval.

(ii) Short-term debt. Short-term borrowing may be issued to generate funding for cash flow needs.

Short-term borrowing, such as commercial paper, Tax and Revenue Anticipation Notes (TRANS), and lines of credit, will be considered as an interim source of funding in anticipation of long-term borrowing. Short-term debt may be issued for any purpose for which long-term debt may be issued, including capitalized interest and other financing-related costs. Prior to issuance of short-term debt, a reliable revenue source shall be identified to secure repayment of the debt. The final maturity of the debt issued to finance the project shall be consistent with the economic or useful life of the project.

Short-term debt may also be used to finance short-lived capital projects such as lease-purchase financing for equipment.

(iii) Financings on Behalf of Other Entities. The City may also find it beneficial to issue debt on behalf of other governmental agencies or private third parties in order to further the public purposes of City. In such cases, the City shall take reasonable steps to confirm the financial feasibility of the project to be financed and the financial solvency of any borrower and that the issuance of such debt is consistent with the policies set forth herein. In no event will the City incur any liability or assume responsibility for payment of debt service on such debt.

## **B. Types of Debt**

In order to maximize the financial options available to benefit the public, it is the policy of the City to allow for the consideration of issuing all generally accepted types of debt, including, but not exclusive to the following:

- General Obligation (GO) Bonds: General Obligation Bonds are suitable for use in the construction or acquisition of improvements to real property that benefit the public at large. Examples of projects include libraries, parks, and public safety facilities. All GO bonds shall be authorized by the requisite number of voters in order to pass.
- Revenue Bonds/Certificates of Participation (COPs): Revenue Bonds are limited-liability obligations tied to a specific enterprise or special fund revenue stream where the projects financed clearly benefit or relate to the enterprise

or are otherwise permissible uses of the special revenue. Generally, no voter approval is required to issue this type of obligation but in some cases, the City must comply with proposition 218 regarding rate adjustments.

- Joint Powers Authority (JPA) Revenue Bonds: As an alternative to COPs, the City may obtain financing through the issuance of debt by a joint exercise of powers agency with such debt payable from amounts paid by the City under a lease, installment sale agreement, or contract of indebtedness.
- Loans: The City is authorized to enter into loans, installment payment obligations, or other similar funding structures secured by a prudent source, or sources of repayment.
- Lease-Backed Debt/Certificates of Participation (Lease Revenue Bonds/COPs): Issuance of Lease-Backed Debt is a commonly used form of debt that allows a City to finance projects where the debt service is secured via a lease agreement and where the payments are budgeted in the annual budget appropriation by the City. Lease-Backed Debt does not constitute indebtedness under the State or the City's constitutional debt limit and does not require voter approval. Lease Revenue Bonds may be issued by the Garden Grove Public Financing Authority on behalf of the City.
- Special Assessment/Special District Debt: The City will consider requests from developers for the use of debt financing secured by property based assessments or special taxes in order to provide for necessary infrastructure for new development under guidelines adopted by City Council, which may include minimum value-to-lien ratios and maximum tax burdens. Examples of this type of debt are Assessment Districts (AD) and Community Facilities Districts (CFD) or more commonly known as Mello-Roos Districts. In order to protect bondholders as well as the City's credit rating, the City will also comply with all State guidelines regarding the issuance of special district or special assessment debt.
- Tax Allocation Bonds: Tax Allocation Bonds are special obligations that are secured by the allocation of tax increment revenues that are generated by increased property taxes in the designated redevelopment area. Tax Allocation Bonds are not debt of the City. Due to changes in the law affecting California redevelopment agencies with the passage of ABX1 26 (as amended, the Dissolution Act) as codified in the California Health and Safety Code, the Garden Grove Agency for Community Development (RDA) was dissolved as of February 1, 2012, and its operations substantially eliminated but for the continuation of certain enforceable RDA obligations to be administered by the Successor Agency to the Garden Grove Agency for Community Development (Successor Agency). The Successor Agency may issue Tax Allocation Bonds to refinance outstanding obligations of the RDA, subject to limitations included in the Dissolution Act.
- Multi-Family Mortgage Revenue Bonds: The City is authorized to issue mortgage revenue bonds to finance the development, acquisition, and

rehabilitation of multi-family rental projects. The interest on the bonds can be exempt from Federal and State taxation. As a result, bonds provide below market financing for qualified rental projects. In addition, the bonds issued can qualify projects for allocations of Federal low-income housing tax credits, which can provide a significant portion of the funding necessary to develop affordable housing.

- HUD Section 108 Loan Guarantee Program: The U.S. Department of Housing and Urban Development (HUD) Section 108 Loan Guarantee Program allows cities to use their annual Community Development Block Grant (CDBG) entitlement grants to obtain federally guaranteed funds large enough to stimulate or pay for major community development and economic development projects. The program does not require a pledge of the City's General Fund, only of future CDBG entitlements. By pledging future CDBG entitlement grants as security, the City can borrow at favorable interest rates because of HUD's guarantee of repayment to investors.
- Refunding Bonds: The City shall refinance debt pursuant to the authorization that is provided under California law, including but not limited to Articles 10 and 11 of Chapter 3 of Part 1 of Division 2 of Title 5 of the California Government Code, as market opportunities arise. The Finance Director shall identify refunding opportunities and prepare a present value analysis that describes the economic effects of a refunding. Refundings may be undertaken in order: (i) to take advantage of lower interest rates and achieve debt service costs savings; (ii) to eliminate restrictive or burdensome bond covenants; or (iii) to restructure debt to lengthen the duration of repayment, relieve debt service spikes, reduce volatility in interest rates or free up reserve funds. Generally, the City shall strive to achieve a minimum of 3% net present value savings for a current refunding and a minimum of 5% net present value savings for an advance refunding. Upon the advice of the Finance Director and with the assistance of a financial advisor and bond counsel, the City will consider undertaking refundings for other than economic purposes upon a finding that such a restructuring is in the City's overall best financial interest.

The City may from time to time find that other forms of debt would be beneficial to further its public purposes and may approve such debt without an amendment of this Debt Policy.

To maintain a predictable debt service burden, the City will give preference in the future to debt that carries a fixed interest rate. An alternative to the use of fixed rate debt is variable rate debt. The City has in the past and may choose in the future to issue securities that pay a rate of interest that varies according to a pre-determined formula or results from a periodic remarketing of securities. When making the determination to issue bonds in a variable rate mode in the future, consideration will be given in regards to the useful life of the project or facility being financed or the term of the project requiring the funding, market conditions, credit risk and third party risk analysis, cost benefit of employing interest rate caps, and the overall debt portfolio structure when issuing variable rate debt for any purpose.

The use of derivative products can, among other things, increase City financial flexibility and provide opportunities for interest rate savings or enhance investment yields. Careful monitoring of such products is required to preserve City credit strength and budget flexibility. Swaps will not be used to speculate on perceived movements in interest rates. Before the City enters into any derivative product associated with debt, the City Council or appropriate governing body shall consider and approve the plan and product separately.

### **C. Relationship of Debt to Capital Improvement Program and Budget**

The City intends to issue debt for the purposes stated in this Debt Policy and to implement policy decisions incorporated in the City's capital budget and the capital improvement plan.

The City shall seek to avoid the use of debt to fund infrastructure and facilities improvements that are the result of normal wear and tear, unless a specific revenue source has been identified for this purpose.

The City shall integrate its debt issuances with the goals of its capital improvement program by timing the issuance of debt to ensure that projects are available when needed in furtherance of the City's public purposes.

The decision to incur new indebtedness should be integrated with the City Council adopted annual Operating Budget and Capital Improvement Program Budget. The annual debt service payments shall be included in the Operating Budget.

### **D. Policy Goals Related to Planning Goals and Objectives**

The City is committed to financial planning, maintaining appropriate reserves levels, and employing prudent practices in governance, management and budget administration. The City intends to issue debt for the purposes stated in this Debt Policy and to implement policy decisions incorporated in the City's annual operating budget.

It is a policy goal of the City to protect taxpayers, ratepayers and constituents by utilizing conservative financing methods and techniques so as to obtain the highest practical credit ratings, if applicable, and the lowest practical borrowing costs.

The City will comply with applicable State and Federal law as it pertains to the maximum term of debt and the procedures for levying and imposing any related taxes, assessments, rates, and charges.

Except as described in Section 2.A., when refinancing debt, it shall be the policy goal of the City to realize, whenever possible, and subject to any overriding non-financial policy considerations minimum aggregate net present value debt service savings equal to or greater than 3% of the refunded principal amount.



## **E. Internal Control Procedures**

When issuing debt, in addition to complying with the terms of this Debt Policy, the City shall comply with any other applicable policies regarding initial bond disclosure, continuing disclosure, post-issuance compliance, and investment of bond proceeds. The Director of Finance has the responsibility to determine and oversee internal control procedures.

The City will periodically review the requirements of and will remain in compliance with the following:

- Federal securities law, including any continuing disclosure undertakings under SEC Rule 15c2-12;
- Any federal tax compliance requirements, including without limitation arbitrage and rebate compliance, related to any prior bond issues;
- The City's investment policies as they relate to the investment of bond proceeds; and
- Government Code section 8855(k) and the annual reporting requirements therein.

The City shall be vigilant in using bond proceeds in accordance with the stated purpose at the time that such debt was issued. Whenever reasonably possible, proceeds of debt will be held by a third-party trustee and the City will submit written requisitions for such proceeds. The City will submit a requisition only after obtaining the signature of the City Manager or the Director of Finance.

## **F. Amendment and Waivers of Debt Policy**

- The Debt Policy will be reviewed and amended from time to time as appropriate subject to City Council approval.
- There will be circumstances from time to time when strict adherence to a provision of this Debt Policy is not possible or not in the best interest of the City.
- If the City staff has determined that a waiver of one or more provisions of this Debt Policy should be considered by the City Council, it will prepare an analysis for the City Council describing the rationale for the waiver and the impact of the waiver on the proposed debt issuance and on taxpayers, if applicable.
- Upon a majority vote of the City Council, one or more provisions of this Debt Policy may be waived for a debt financing.
- The failure of a debt financing to comply with one or more provisions of the Debt Policy shall in no way affect the validity of any debt issued by the City in accordance with applicable laws.

## **G. Professional Assistance**

The City shall utilize the services of independent financial advisors and bond counsel on all debt financings. The Director of Finance shall have the authority to periodically select service providers as necessary to meet legal requirements and minimize net City debt costs. Such services, depending on the type of financing, may include financial advisory, underwriting, trustee, bond counsel, disclosure counsel, verification agent, escrow agent, arbitrage consulting, continuing disclosure consultants, and special tax consulting. The goal in selecting service providers, whether through a competitive process or when appropriate, a sole-source selection, is to achieve an appropriate balance between service and cost.

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To: Scott C. Stiles From: Teresa Pomeroy  
Dept.: City Manager Dept.: City Clerk  
Subject: Resolution promoting community harmony and safety. (*Action Item*) Date: 1/24/2017

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Attached for City Council consideration is a Resolution promoting community harmony.

**ATTACHMENTS:**

<b>Description</b>	<b>Upload Date</b>	<b>Type</b>	<b>File Name</b>
Resolution	1/18/2017	Resolution Letter	GG_Resolution_Promoting_Community_Harmony_and_Safety_(1).pdf

RESOLUTION NO. \_\_\_\_\_

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF  
GARDEN GROVE PROMOTING COMMUNITY HARMONY AND  
SAFETY

WHEREAS, the City of Garden Grove is made up of a diverse community of people from different races, cultures, backgrounds, origins and religions; and

WHEREAS, the City of Garden Grove is a City of compassion and promotes peace and community harmony; and

WHEREAS, it is the fundamental responsibility of the City of Garden Grove to protect all of its residents and maintain public safety.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Garden as follows:

1. That the City Council of the City of Garden Grove encourages speech and discussion that fosters peace, acceptance of others, and community harmony; and
2. That the City Council of the City of Garden Grove denounces any hateful rhetoric targeted against any person, group or community seeking to disrupt, divide, physically threaten or menacingly discriminate against any of them; and
3. That the City Council of the City of Garden Grove fully supports the Chief of Police and the City's Police Department in NOT requiring officers to check, request, and/or verbally obtain proof of legal status in the execution of their duties, unless a suspect's legal status is directly related to the incident leading to law enforcement intervention; and

PASSED, APPROVED, AND ADOPTED BY THE CITY COUNCIL OF THE CITY OF GARDEN GROVE THIS \_\_\_\_ DAY OF JANUARY, 2017.

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To:	Scott C. Stiles	From:	Kingsley Okereke
Dept.:	City Manager	Dept.:	Finance
Subject:	Discussion on CalPers changes of unfunded actuarial liability and discount rates as requested by City Manager Stiles.	Date:	1/24/2017

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**OBJECTIVE**

To update the City Council on recent CalPERS changes regarding the calculation, billing and collection of Unfunded actuarial liability (UAL) component of the employer required annual retirement contribution, and the projected impact to the city budget of the CalPERS Board recently adopted three step reduction of the discount rate over the next three years.

**BACKGROUND**

Annually, the California Public Employees' Retirement System (CalPERS) provides the City with an actuarial valuation report of its pension plan. The report outlines employer annual required contribution as a percentage of the employer payroll. The rate usually is a combined rate that include the normal cost rate and an amortization rate for the UAL. Effective for the actuarial valuation period ended June 30, 2015, and thereafter, CalPERS would instead bill and collect the UAL contribution portion as a calculated amount based on outstanding UAL balance. See attachments 2 and 3 for the Miscellaneous and Safety Plans Valuation reports dated August 2016.

Over the past several years, the CalPERS board has considered adjustments to the discount rate as part of the risk mitigation response to the recent lower CalPERS portfolio earnings, and escalating unfunded liability amounts in participants' plans. CalPERS board last lowered the discount rate, from 7.75 percent to 7.5 percent, in 2012. On January 10, 2017, the CalPERS board adopted a plan to further reduce the discount rate from 7.5 percent to 7.0 percent over the next three years. The rates would be phased down to 7.375 percent for Fiscal Year 2017-2018 valuation, 7.25 percent for Fiscal Year 2018-2019 valuation, and 7.00 percent for Fiscal Year 2019-2020 valuation.

**DISCUSSION**

CalPERS UAL Billing and Collection: CalPERS determined that the prior method of

funding the unfunded liability as a percentage of payroll could lead to the underfunding of the plans, as payroll may decline or active employees are reduced. Therefore, beginning with Fiscal Year 2017-2018, CalPERS changed to calculate and collect employer contributions toward the plan's unfunded liability as a dollar amount. The normal cost contribution will continue to be billed and collected as a percentage of payroll. The schedule below extracted from the most recent actuarial report dated August 2016 shows the change. The employer normal cost is as usual a rate that will be applied to total annual payroll. However, the UAL is a dollar amount that is the required employer contribution/payment for the Fiscal Years 2017-18 and 2018-19 for both the Safety Plan and the Miscellaneous Plan. This is a change with respect to the method of funding the plan's UAL going forward; however, it would not result in any significant increases in the City of Garden Grove UAL contribution amounts given the City's payroll trajectory.

<b>Safety Plan</b>			
Fiscal Year	Employer Normal CostRate	Employer Payment ofUnfunded Liability	Total Contribution
2017-18	18.709%	\$8,692,112	\$14,146,794
2018-19(projected)	18.7%	\$10,365,760	N/A

<b>Miscellaneous Plan</b>			
Fiscal Year	Employer Normal CostRate	Employer Payment ofUnfunded Liability	Total Contribution
2017-18	9.210%	\$5,516,931	\$8,308,785
2018-19(projected)	9.2%	\$6,538,4230	N/A

CalPERS Lower Discount Rate Plan: The CalPERS board plan incrementally lowers the discount rate from 7.375 percent to 7.0 percent over the next three years. This phased approach according to CalPERS would give employers and members' time to plan their budget responsibly given the expected increased contribution amounts. Reportedly, the change will result in contribution rate increase of 3 percent of normal cost as a percentage of payroll for a typical miscellaneous plan, and a 5 percent increase for a typical safety plan. The impact will be even more pronounced for the unfunded liability element of the plan payments. CalPERS reported that "many employers will see a 30 to 40 percent increase in their current unfunded accrued liability payments." The unfunded liabilities would be amortized over 20 years resulting in the increased annual UAL payments designed to bring the fund to a fully funded status over the long term. The discount rate is the single most impactful element in the calculation of the retirement contribution amounts. The reported unfunded accrued liability as of June 30, 2016, for the safety Plan is \$147.07 million, and \$80.30 million for the Miscellaneous Plan. Assuming a 30 percent increase in currently unfunded accrued liability payments as indicated by CalPERS based on a 20 year amortization schedule, the impact for Garden Grove could be additional UAL contribution of \$3.67 million in Fiscal Year 2017-2018.

#### FINANCIAL IMPACT

Given the published actuarial valuation as of June 30, 2015, the City of Garden Grove (employer) combined contribution toward the Safety and Miscellaneous

CalPERS plans was expected to increase by approximately \$2.4 million in Fiscal Year 2017-2018, \$2.9 million in Fiscal Year 2018-2019 and another \$3.1 million in Fiscal Year 2019-2020. These increases are based on the currently applicable discount rate of 7.5 percent. The CalPERS adopted risk mitigation policy of incrementally lowering the discount rate to 7 percent over the next three years is projected to further increase the City's UAL component of the required annual contribution. The Financial Impact By Fiscal Year attached (attachment 1) shows the projected City's combined annual UAL contribution (employer portion) assuming the 30 percent adjustment. This discount rate change could potentially increase the City budgets by \$3.70 million in FY2017-18, \$6.1 million in FY2018-19, and about \$10.0 million in FY2019-20. Employee contribution rates are assumed to remain at its current levels.

#### **RECOMMENDATION**

This is for City Council information and it is recommended that the City Council:

- Receive and file this report.

#### **ATTACHMENTS:**

<b>Description</b>	<b>Upload Date</b>	<b>Type</b>	<b>File Name</b>
Attachment 1 - Financial Impact	1/19/2017	Backup Material	Financial_Impact_by_Fiscal_Year.pdf
Attachment 2 - Safety Plan Valuation Report	1/14/2017	Backup Material	CalPERS_Actuarial_Valuation_-_Safety_(1).pdf
Attachment 3 - Miscellaneous Plan Valuation Report	1/14/2017	Backup Material	CalPERS_Actuarial_Valuation_-_Misc.pdf

## FINANCIAL IMPACT BY FISCAL YEAR

## Attachment 1

<b>Safety Plan</b>	<b>FY2016-17</b>	<b>FY2017-18</b>	<b>FY2018-19</b>	<b>FY2019-20</b>
UAL \$ Contribution @ Current 7.5% Discount Rate	\$ 7,461,031	\$ 8,692,112	\$ 10,365,760	\$ 12,132,004
UAL \$ Contribution @ Lower Disc. Rate (30% Increase)		\$ 9,699,340	\$ 12,609,142	\$ 16,391,885
Projected Annual UAL Contribution Increase		\$ 2,238,309	\$ 3,917,030	\$ 6,026,125
<b>Miscellaneous Plan</b>				
UAL \$ Contribution @ Current 7.5% Discount Rate	\$ 4,773,319	\$ 5,516,931	\$ 6,538,423	\$ 7,616,236
UAL \$ Contribution @ Lower Disc. Rate (30% Increase)		\$ 6,205,315	\$ 8,066,909	\$ 10,486,982
Projected Annual UAL Contribution Increase		\$ 1,431,996	\$ 2,549,978	\$ 3,948,559
<b>Total Projected Additional UAL Contribution</b>		\$ 3,670,305	\$ 6,467,009	\$ 9,974,684





California Public Employees' Retirement System  
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**August 2016**

**SAFETY PLAN OF THE CITY OF GARDEN GROVE (CalPERS ID: 4553365413)  
Annual Valuation Report as of June 30, 2015**

Dear Employer,

As an attachment to this letter, you will find a copy of the June 30, 2015 actuarial valuation report of your pension plan. Your 2015 actuarial valuation report contains important actuarial information about your pension plan at CalPERS. Your CalPERS staff actuary, whose signature appears in the "Actuarial Certification" section on page 1, is available to discuss the report with you after August 31, 2016.

**Future Contributions**

The exhibit below displays the minimum employer contributions for Fiscal Year 2017-18 and projected contributions for Fiscal Year 2018-19, before any cost sharing. The projected contributions for Fiscal Year 2018-19 are based on the most recent information available, including an estimate of the investment return for Fiscal Year 2015-16, namely 0.0 percent. For a projection of employer contributions beyond Fiscal Year 2018-19, please refer to the "Projected Employer Contributions" in the "Highlights and Executive Summary" section. This 5-year projection of future employer contributions supersedes any previous projections we have provided. The "Risk Analysis" section of the valuation report also contains estimated employer contributions in future years under a variety of investment return scenarios.

Fiscal Year	Employer Normal Cost Rate	Employer Payment of Unfunded Liability	Employee PEPRA Rate
2017-18	18.709%	\$8,692,112	11.00%
2018-19 (projected)	18.7%	\$10,365,760	N/A

Member contributions other than cost sharing (whether paid by the employer or the employee) are in addition to the above. **The employer contributions in this report do not reflect any cost sharing arrangement you may have with your employees.**

The estimates for Fiscal Year 2018-19 also assume that there are no future contract amendments and no liability gains or losses (such as larger than expected pay increases, more retirements than expected, etc.). This is a very important assumption because these gains and losses do occur and can have a significant impact on required contributions. These gains and losses cannot be predicted in advance so the projected employer contributions are just estimates. The actual required employer contributions for Fiscal Year 2018-19 will be provided in next year's report.

### Changes since the Prior Year's Valuation

Beginning with Fiscal Year 2017-18 CalPERS will collect employer contributions toward the plan's unfunded liability as dollar amounts instead of the prior method of a contribution rate. This change will address potential funding issues that could arise from a declining payroll or reduction in the number of active members in the plan. Funding the unfunded liability as a percentage of payroll could lead to the underfunding of the plans. Although employers will be invoiced at the beginning of the fiscal year for their unfunded liability payment the plan's normal cost contribution will continue to be collected as a percentage of payroll.

The CalPERS Board of Administration adopted a Risk Mitigation Policy which is designed to reduce funding risk over time. The policy establishes a mechanism whereby CalPERS investment performance that significantly outperforms the discount rate triggers adjustments to the discount rate, expected investment return and strategic asset allocation targets. A minimum excess investment return of 4% above the existing discount rate is necessary to cause a funding risk mitigation event. The policy has no impact on the current year valuation results but is expected to have an impact in future years. More details on the Risk Mitigation Policy can be found on our website.

Besides the above noted changes, there may also be changes specific to the plan such as contract amendments and funding changes.

Further descriptions of general changes are included in the "Highlights and Executive Summary" section and in Appendix A, "Actuarial Methods and Assumptions." The effects of the changes on the required contributions are included in the "Reconciliation of Required Employer Contributions" section.

We understand that you might have a number of questions about these results. While we are very interested in discussing these results with your agency, in the interest of allowing us to give every public agency their results, we ask that you wait until after August 31 to contact us with actuarial questions. If you have other questions, you may call the Customer Contact Center at (888)-CalPERS or **(888-225-7377)**.

Sincerely,



ALAN MILLIGAN  
Chief Actuary



# **ACTUARIAL VALUATION**

**as of June 30, 2015**

## **for the SAFETY PLAN of the CITY OF GARDEN GROVE**

**(CalPERS ID: 4553365413)**

**(Rate Plan ID: 1058)**

### **REQUIRED CONTRIBUTIONS FOR FISCAL YEAR**

**July 1, 2017 – June 30, 2018**

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## ACTUARIAL CERTIFICATION

To the best of our knowledge, this report is complete and accurate and contains sufficient information to disclose, fully and fairly, the funded condition of the SAFETY PLAN OF THE CITY OF GARDEN GROVE. This valuation is based on the member and financial data as of June 30, 2015 provided by the various CalPERS databases and the benefits under this plan with CalPERS as of the date this report was produced. It is our opinion that the valuation has been performed in accordance with generally accepted actuarial principles, in accordance with standards of practice prescribed by the Actuarial Standards Board, and that the assumptions and methods are internally consistent and reasonable for this plan, as prescribed by the CalPERS Board of Administration according to provisions set forth in the California Public Employees' Retirement Law.

The undersigned is an actuary for CalPERS, who is a member of the American Academy of Actuaries and the Society of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

A handwritten signature in black ink, appearing to read "Kerry J. Worgan", with a stylized flourish at the end.

KERRY J. WORGAN, MAAA, FSA, FCIA  
Senior Pension Actuary, CalPERS

## **HIGHLIGHTS AND EXECUTIVE SUMMARY**

- **INTRODUCTION**
- **PURPOSE OF THE REPORT**
- **REQUIRED CONTRIBUTIONS**
- **PLAN'S FUNDED STATUS**
- **PROJECTED EMPLOYER CONTRIBUTIONS**
- **COST**
- **CHANGES SINCE THE PRIOR YEAR'S VALUATION**
- **SUBSEQUENT EVENTS**

## Introduction

This report presents the results of the June 30, 2015 actuarial valuation of the SAFETY PLAN OF THE CITY OF GARDEN GROVE of the California Public Employees' Retirement System (CalPERS). This actuarial valuation sets the required employer contributions for Fiscal Year 2017-18.

The CalPERS Board of Administration adopted a Risk Mitigation Policy which is designed to reduce funding risk over time. The policy establishes a mechanism whereby CalPERS investment performance that significantly outperforms the discount rate triggers adjustments to the discount rate, expected investment return and strategic asset allocation targets. A minimum excess investment return of 4% above the existing discount rate is necessary to cause a funding risk mitigation event. The Risk Mitigation Policy does not have an impact on the current year actuarial valuation. More details on the Risk Mitigation Policy can be found on our website.

## Purpose of the Report

The actuarial valuation was prepared by the CalPERS Actuarial Office using data as of June 30, 2015. The purpose of the report is to:

- Set forth the assets and accrued liabilities of this plan as of June 30, 2015;
- Determine the required employer contributions for the fiscal year July 1, 2017 through June 30, 2018;
- Provide actuarial information as of June 30, 2015 to the CalPERS Board of Administration and other interested parties.

The pension funding information presented in this report should not be used in financial reports subject to Governmental Accounting Standards Board (GASB) Statement No. 68 for an Agent Employer Defined Benefit Pension Plan. A separate accounting valuation report for such purposes is available from CalPERS and details for ordering are available on our website.

The use of this report for any other purposes may be inappropriate. In particular, this report does not contain information applicable to alternative benefit costs. The employer should contact their actuary before disseminating any portion of this report for any reason that is not explicitly described above.

### California Actuarial Advisory Panel Recommendations

This report includes all the basic disclosure elements as described in the *Model Disclosure Elements for Actuarial Valuation Reports* recommended in 2011 by the California Actuarial Advisory Panel (CAAP), with the exception of including the original base amounts of the various components of the unfunded liability in the Schedule of Amortization Bases shown on page 15.

Additionally, this report includes the following "Enhanced Risk Disclosures" also recommended by the CAAP in the Model Disclosure Elements document:

- A "Deterministic Stress Test," projecting future results under different investment income scenarios
- A "Sensitivity Analysis," showing the impact on current valuation results using a 1 percent plus or minus change in the discount rate.

## Required Contributions

		Fiscal Year
Required Employer Contribution		2017-18
Employer Normal Cost Rate		18.709%
Plus Either		
1) Monthly Employer Dollar UAL Payment	\$	724,343
Or		
2) Annual UAL Prepayment Option	\$	8,383,417
Required PEPRA Member Contribution Rate		11.00%
<p>The total minimum required employer contribution is the <b>sum</b> of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll) <b>plus</b> the Employer Unfunded Accrued Liability (UAL) Contribution Amount (billed monthly in dollars). Only the UAL portion of the employer contribution can be prepaid (which must be received in full no later than July 31). Plan Normal Cost contributions will be made as part of the payroll reporting process. If there is contractual cost sharing or other change, this amount will change. §20572 of the Public Employees' Retirement Law assesses interest at an annual rate of 10 percent if a contracting agency fails to remit the required contributions when due. For additional detail regarding the determination of the required contribution for PEPRA members, see Appendix D. Required member contributions for Classic members can be found in Appendix B.</p>		

	Fiscal Year	Fiscal Year
	2016-17	2017-18
<b>Normal Cost Contribution as a Percentage of Payroll</b>		
Total Normal Cost	27.685%	27.845%
Employee Contribution <sup>1</sup>	9.134%	9.136%
Employer Normal Cost	18.551%	18.709%
Projected Annual Payroll for Contribution Year	\$ 27,928,853	\$ 29,155,389
<b>Estimated Employer Contributions Based On Projected Payroll</b>		
Total Normal Cost	\$ 7,732,103	\$ 8,118,318
Employee Contribution <sup>1</sup>	2,551,021	2,663,636
Employer Normal Cost	5,181,082	5,454,682
Unfunded Liability Contribution	7,461,031	8,692,112
Estimated Total Employer Contribution <sup>2</sup>	\$ 12,642,113	\$ 14,146,794

<sup>1</sup> For classic members, this is the percentage specified in the Public Employees Retirement Law, net of any reduction from the use of a modified formula or other factors. For PEPRA members, the member contribution rate is based on 50 percent of the normal cost. A development of PEPRA member contribution rates can be found in Appendix D. Employee cost sharing is not shown in this report.

<sup>2</sup> As a percentage of projected payroll the UAL contribution for Fiscal Year 2017-18 is 29.813 percent for an estimated total employer contribution rate of 48.522 percent. As determined in the June 30, 2014 valuation, the Fiscal Year 2016-17 UAL contribution is 26.714 percent for a total employer contribution rate of 45.265 percent.



## Plan's Funded Status

	June 30, 2014	June 30, 2015
1. Present Value of Projected Benefits	\$ 502,833,164	\$ 524,553,384
2. Entry Age Normal Accrued Liability	439,596,016	459,725,345
3. Market Value of Assets (MVA)	\$ 315,100,771	\$ 312,659,142
4. Unfunded Accrued Liability (UAL) [(2) - (3)]	\$ 124,495,245	\$ 147,066,203
5. Funded Ratio [(3) / (2)]	71.7%	68.0%

## Projected Employer Contributions

The estimated employer contribution for Fiscal Year 2018-19 is based on a projection of the most recent information we have available, including an estimated 0.0 percent investment return for Fiscal Year 2015-16.

The table below shows projected employer contributions (before cost sharing) for the next five fiscal years, assuming CalPERS earns 0.0 percent for Fiscal Year 2015-16 and 7.50 percent every fiscal year thereafter, and assuming that all other actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur during the projection period. The projected normal cost percentages do not reflect that the normal cost will decline over time as new employees are hired into PEPPRA or other lower cost benefit tiers.

	Required Contribution	Projected Future Employer Contributions				
Fiscal Year	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Normal Cost %	18.709%	18.7%	18.7%	18.7%	18.7%	18.7%
UAL \$	8,692,112	10,365,760	12,132,004	13,234,380	14,379,165	15,233,068

For projected contributions under alternate investment return scenarios, please see the "Analysis of Future Investment Return Scenarios" in the "Risk Analysis" section.

## Cost

### Actuarial Cost Estimates in General

What will this pension plan cost? Unfortunately, there is no simple answer. There are two major reasons for the complexity of the answer. First, actuarial calculations, including the ones in this report, are based on a number of assumptions about the future. These assumptions can be divided into two categories.

- Demographic assumptions include the percentage of employees that will terminate, die, become disabled, and retire in each future year.
- Economic assumptions include future salary increases for each active employee, and the assumption with the greatest impact: future asset returns at CalPERS for each year into the future until the last dollar is paid to current members of the plan.

While CalPERS has set these assumptions to reflect our best estimate of the real future of the plan, it must be understood that these assumptions are very long-term predictors and will surely not be realized in any one year. For example, while the asset earnings at CalPERS have averaged more than the assumed return of 7.5 percent for the past twenty year period ending June 30, 2015, returns for each fiscal year ranged from negative -24 percent to +21.7 percent.

Second, the very nature of actuarial funding produces the answer to the question of plan cost as the sum of two separate pieces.

- The Normal Cost (i.e., the annual cost associated with one year of service accrual) expressed as a percentage of total active payroll.
- The Past Service Cost or Accrued Liability (i.e., the current value of the benefit for all credited past service of current members) which is expressed as a lump sum dollar amount.

The cost is the sum of a percent of future pay and a lump sum dollar amount. In prior years CalPERS converted Past Service Cost to a percent of payroll and expressed the total required employer contribution as a single rate. Going forward the Past Service Cost will no longer be converted to a percent of payroll and this cost will be invoiced to the employer as a monthly dollar contribution amount with the option to prepay the annual amount at the beginning of the fiscal year. The normal cost will continue to be expressed as a percentage of active payroll with employer and employee contributions payable as part of the payroll reporting process.

## Changes since the Prior Year's Valuation

### Benefits

The standard actuarial practice at CalPERS is to recognize mandated legislative benefit changes in the first annual valuation following the effective date of the legislation. Voluntary benefit changes by plan amendment are generally included in the first valuation that is prepared after the amendment becomes effective, even if the valuation date is prior to the effective date of the amendment.

This valuation generally reflects plan changes by amendments effective before the date of the report. Please refer to the "Plan's Major Benefit Options" and Appendix B for a summary of the plan provisions used in this valuation. The effect of any mandated benefit changes or plan amendments on the unfunded liability is shown in the "(Gain)/Loss Analysis" and the effect on the employer contribution is shown in the "Reconciliation of Required Employer Contributions." It should be noted that no change in liability or contribution is shown for any plan changes which were already included in the prior year's valuation.

### Actuarial Methods and Assumptions

Beginning with Fiscal Year 2017-18 CalPERS will collect employer contributions toward the plan's unfunded liability as dollar amounts instead of the prior method of a contribution rate. This change will address potential funding issues that could arise from a declining payroll or reduction in the number of active members in the plan. Funding the unfunded liability as a percentage of payroll could lead to the underfunding of the plans. Although employers will be invoiced at the beginning of the fiscal year for their unfunded liability payment the plan's normal cost contribution will continue to be collected as a percentage of payroll.

## Subsequent Events

### Risk Mitigation

The CalPERS Board of Administration adopted a Risk Mitigation Policy which is designed to reduce funding risk over time. The policy establishes a mechanism whereby CalPERS investment performance that significantly outperforms the discount rate triggers adjustments to the discount rate, expected investment return and strategic asset allocation targets. A minimum excess investment return of 4% above the existing discount rate is necessary to cause a funding risk mitigation event. More details on the Risk Mitigation Policy can be found on our website.

## **ASSETS**

- **RECONCILIATION OF THE MARKET VALUE OF ASSETS**
- **ASSET ALLOCATION**
- **CALPERS HISTORY OF INVESTMENT RETURNS**

## Reconciliation of the Market Value of Assets

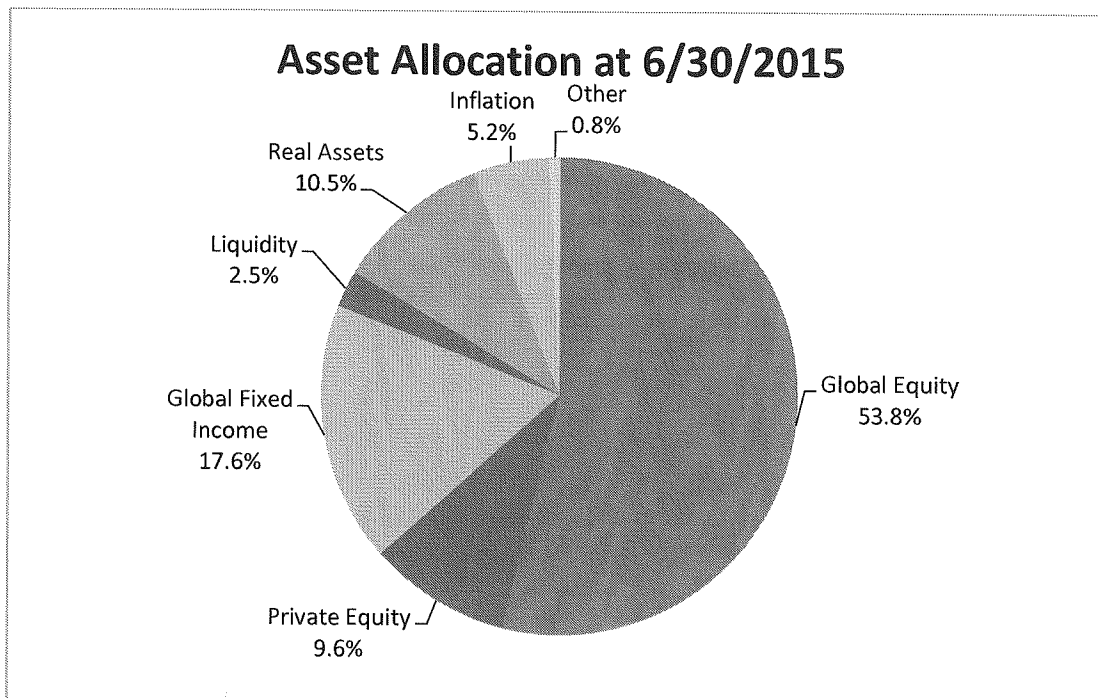
1.	Market Value of Assets as of 6/30/14 including Receivables	\$	315,100,771
2.	Change in Receivables for Service Buybacks as of 6/30/14		(150,202)
3.	Employer Contributions		10,155,643
4.	Employee Contributions		2,444,255
5.	Benefit Payments to Retirees and Beneficiaries		(21,800,293)
6.	Refunds		(46,381)
7.	Lump Sum Payments		0
8.	Transfers and Miscellaneous Adjustments		317,720
9.	Investment Return		6,637,629
10.	Market Value of Assets as of 6/30/15 including Receivables	\$	312,659,142

## Asset Allocation

CalPERS adheres to an Asset Allocation Strategy which establishes asset class allocation policy targets and ranges, and manages those asset class allocations within their policy ranges. CalPERS Investment Belief No. 6 recognizes that strategic asset allocation is the dominant determinant of portfolio risk and return. On February 19, 2014, the CalPERS Board of Administration adopted changes to the current asset allocation as shown in the Policy Target Allocation below expressed as a percentage of total assets. The asset allocation has an expected long term blended rate of return of 7.5 percent.

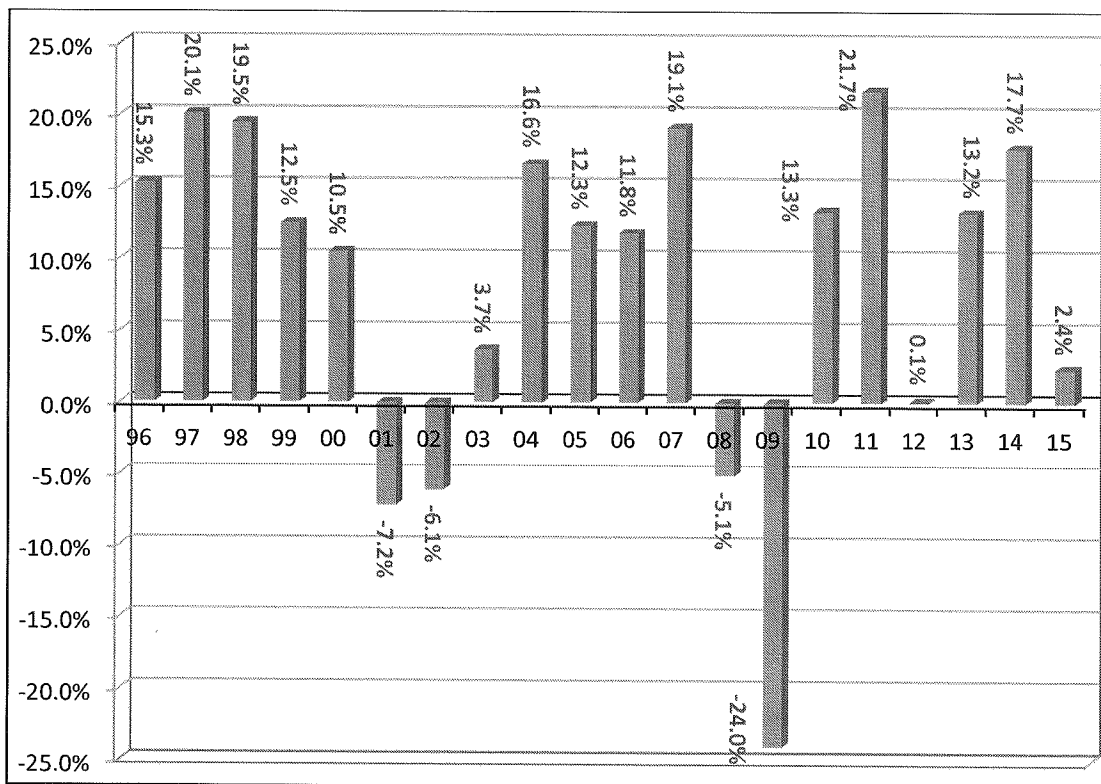
The asset allocation and market value of assets shown below reflect the values of the Public Employees' Retirement Fund (PERF) in its entirety as of June 30, 2015. The assets for CITY OF GARDEN GROVE SAFETY PLAN are part of the PERF and are invested accordingly.

(A) Asset Class	(B) Market Value (\$ Billion)	(C) Policy Target Allocation
Global Equity	162.5	51.0%
Private Equity	29.0	10.0%
Global Fixed Income	53.1	20.0%
Liquidity	7.5	1.0%
Real Assets	31.8	12.0%
Inflation Sensitive Assets	15.6	6.0%
Other	2.4	0.0%
<b>Total Fund</b>	<b>\$301.9</b>	<b>100.0%</b>



## CalPERS History of Investment Returns

The following is a chart with the 20-year historical annual returns of the Public Employees Retirement Fund for each fiscal year ending on June 30. Beginning in 2002, the figures are reported as gross of fees.



The table below shows historical geometric mean annual returns of the Public Employees Retirement Fund for various time periods ending on June 30, 2015, (figures are reported as gross of fees). The geometric mean rate of return is the average rate per period compounded over multiple periods. It should be recognized that in any given year the rate of return is volatile. Although the expected rate of return on the recently adopted new asset allocation is 7.5 percent, the portfolio has an expected volatility of 11.76 percent per year. The volatility is a measure of the risk of the portfolio expressed in the standard deviation of the fund's total return distribution, expressed as a percentage. Consequently, when looking at investment returns, it is more instructive to look at returns over longer time horizons.

History of CalPERS Geometric Mean Rates of Return and Volatilities					
	1 year	5 year	10 year	20 year	30 year
Geometric Return	2.4%	10.7%	6.1%	7.7%	9.1%
Volatility	—	9.4%	14.0%	11.8%	10.5%

## **LIABILITIES AND CONTRIBUTIONS**

- **DEVELOPMENT OF ACCRUED AND UNFUNDED LIABILITIES**
- **(GAIN) / LOSS ANALYSIS 06/30/14 - 06/30/15**
- **SCHEDULE OF AMORTIZATION BASES**
- **30-YEAR AMORTIZATION SCHEDULES AND ALTERNATIVES**
- **RECONCILIATION OF REQUIRED EMPLOYER CONTRIBUTIONS**
- **EMPLOYER CONTRIBUTION HISTORY**
- **FUNDING HISTORY**



## Development of Accrued and Unfunded Liabilities

	June 30, 2014	June 30, 2015
1. Present Value of Projected Benefits		
a) Active Members	\$ 202,143,469	210,798,962
b) Transferred Members	13,613,430	13,287,966
c) Terminated Members	4,159,746	687,629
d) Members and Beneficiaries Receiving Payments	282,916,519	299,778,827
e) Total	\$ 502,833,164	524,553,384
2. Present Value of Future Employer Normal Costs	\$ 41,792,365	42,777,463
3. Present Value of Future Employee Contributions	\$ 21,444,783	22,050,576
4. Entry Age Normal Accrued Liability		
a) Active Members [(1a) - (2) - (3)]	\$ 138,906,321	145,970,923
b) Transferred Members (1b)	13,613,430	13,287,966
c) Terminated Members (1c)	4,159,746	687,629
d) Members and Beneficiaries Receiving Payments (1d)	282,916,519	299,778,827
e) Total	\$ 439,596,016	459,725,345
5. Market Value of Assets (MVA)	\$ 315,100,771	312,659,142
6. Unfunded Accrued Liability (UAL) [(4e) - (5)]	\$ 124,495,245	147,066,203
7. Funded Ratio [(5) / (4e)]	71.7%	68.0%

## (Gain)/Loss Analysis 6/30/14 – 6/30/15

To calculate the cost requirements of the plan, assumptions are made about future events that affect the amount and timing of benefits to be paid and assets to be accumulated. Each year, actual experience is compared to the expected experience based on the actuarial assumptions. This results in actuarial gains or losses, as shown below.

### 1. Total (Gain)/Loss for the Year

a) Unfunded Accrued Liability (UAL) as of 6/30/14	\$	124,495,245
b) Expected Payment on the UAL during 2014/2015		5,114,016
c) Interest through 6/30/15 $[(.075 \times (1a) - ((1.075)^{1/2} - 1) \times (1b)]$		9,148,835
d) Expected UAL before all other changes $[(1a) - (1b) + (1c)]$		128,530,064
e) Change due to plan changes		0
f) Change due to assumption change		0
g) Expected UAL after all other changes $[(1d) + (1e) + (1f)]$		128,530,064
h) Actual UAL as of 6/30/15		147,066,203
i) Total (Gain)/Loss for 2014/2015 $[(1h) - (1g)]$	\$	18,536,139

### 2. Contribution (Gain)/Loss for the Year

a) Expected Contribution (Employer and Employee)	\$	12,437,541
b) Interest on Expected Contributions		457,976
c) Actual Contributions		12,599,898
d) Interest on Actual Contributions		463,954
e) Expected Contributions with Interest $[(2a) + (2b)]$		12,895,517
f) Actual Contributions with Interest $[(2c) + (2d)]$		13,063,852
g) Contribution (Gain)/Loss $[(2e) - (2f)]$	\$	(168,335)

### 3. Asset (Gain)/Loss for the Year

a) Market Value of Assets as of 6/30/14	\$	315,100,771
b) Prior Fiscal Year Receivables		(582,357)
c) Current Fiscal Year Receivables		432,155
d) Contributions Received		12,599,898
e) Benefits and Refunds Paid		(21,846,674)
f) Transfers and Miscellaneous Adjustments		317,720
g) Expected Int. $[(.075 \times (3a + 3b) + ((1.075)^{1/2} - 1) \times ((3d) + (3e) + (3f))]$		23,260,095
h) Expected Assets as of 6/30/15 $[(3a) + (3b) + (3c) + (3d) + (3e) + (3f) + (3g)]$		329,281,608
i) Market Value of Assets as of 6/30/15		312,659,142
j) Asset (Gain)/Loss $[(3h) - (3i)]$	\$	16,622,466

### 4. Liability (Gain)/Loss for the Year

a) Total (Gain)/Loss (1i)	\$	18,536,139
b) Contribution (Gain)/Loss (2g)		(168,335)
c) Asset (Gain)/Loss (3j)		16,622,466
d) Liability (Gain)/Loss $[(4a) - (4b) - (4c)]$	\$	2,082,008

## Schedule of Amortization Bases

There is a two-year lag between the valuation date and the start of the contribution fiscal year.

- The assets, liabilities, and funded status of the plan are measured as of the valuation date: June 30, 2015.
- The required employer contributions determined by the valuation are for the fiscal year beginning two years after the valuation date: Fiscal Year 2017-18.

This two-year lag is necessary due to the amount of time needed to extract and test the membership and financial data, and the need to provide public agencies with their required employer contribution well in advance of the start of the fiscal year.

The Unfunded Accrued Liability (UAL) is used to determine the employer contribution and therefore must be rolled forward two years from the valuation date to the first day of the fiscal year for which the contribution is being determined. The UAL is rolled forward each year by subtracting the expected payment on the UAL for the fiscal year and adjusting for interest. The expected payment on the UAL for a fiscal year is equal to the Expected Employer Contribution for the fiscal year minus the Expected Normal Cost for the year. The Employer Contribution for the first fiscal year is determined by the actuarial valuation two years ago and the contribution for the second year is from the actuarial valuation one year ago. The Normal Cost Rate for each of the two fiscal years is assumed to be the same as the rate determined by the current valuation. All expected dollar amounts are determined by multiplying the rate by the expected payroll for the applicable fiscal year, based on payroll as of the valuation date.

Reason for Base	Date Established	Amortization Period	Balance 6/30/15	Expected Payment 2015-16	Balance 6/30/16	Expected Payment 2016-17	Balance 6/30/17	Scheduled Payment for 2017-18
FS 30-YEAR AMORTIZATION	06/30/08	23	\$(7,760,952)	\$(512,956)	\$(7,811,179)	\$(528,344)	\$(7,849,218)	\$(544,195)
ASSUMPTION CHANGE	06/30/09	14	\$8,459,386	\$740,973	\$8,325,583	\$763,202	\$8,158,697	\$786,098
SPECIAL (GAIN)/LOSS	06/30/09	24	\$14,271,646	\$923,073	\$14,384,957	\$950,766	\$14,478,054	\$979,289
SPECIAL (GAIN)/LOSS	06/30/10	25	\$(2,403,483)	\$(152,329)	\$(2,425,807)	\$(156,898)	\$(2,445,067)	\$(161,605)
GOLDEN HANDSHAKE	06/30/11	16	\$1,286,052	\$103,971	\$1,274,707	\$107,090	\$1,259,277	\$110,302
ASSUMPTION CHANGE	06/30/11	16	\$7,665,432	\$619,710	\$7,597,810	\$638,301	\$7,505,841	\$657,450
SPECIAL (GAIN)/LOSS	06/30/11	26	\$139,274	\$8,660	\$140,740	\$8,920	\$142,048	\$9,187
PAYMENT (GAIN)/LOSS	06/30/12	27	\$471,172	\$28,776	\$476,674	\$29,640	\$481,693	\$30,529
(GAIN)/LOSS	06/30/12	27	\$68,131,319	\$4,161,057	\$68,926,893	\$4,285,888	\$69,652,706	\$4,414,465
(GAIN)/LOSS	06/30/13	28	\$46,642,068	\$656,022	\$49,460,045	\$1,351,406	\$51,768,381	\$2,087,922
ASSUMPTION CHANGE	06/30/14	19	\$23,873,773	\$(354,398)	\$26,031,754	\$495,845	\$27,470,033	\$1,021,440
(GAIN)/LOSS	06/30/14	29	\$(32,245,625)	\$(189,655)	\$(34,467,408)	\$(484,785)	\$(36,549,828)	\$(998,658)
(GAIN)/LOSS	06/30/15	30	\$18,536,141	\$37,540	\$19,887,429	\$55,398	\$21,321,548	\$299,888
<b>TOTAL</b>			<b>\$147,066,203</b>	<b>\$6,070,444</b>	<b>\$151,802,198</b>	<b>\$7,516,429</b>	<b>\$155,394,165</b>	<b>\$8,692,112</b>

## 30-Year Amortization Schedule and Alternatives

The amortization schedule on the previous page shows the minimum contributions required according to CalPERS amortization policy. There has been considerable interest from many agencies in paying off these unfunded accrued liabilities sooner and the possible savings in doing so. As a result, we have provided alternate amortization schedules to help analyze the current amortization schedule and illustrate the advantages of accelerating unfunded liability payments.

Shown on the following page are future year amortization payments based on 1) the current amortization schedule reflecting the individual bases and remaining periods shown on the previous page, and 2) alternate "fresh start" amortization schedules using two sample periods that would both result in interest savings relative to the current amortization schedule. Note that the payments under each alternate scenario increase by 3 percent for each year into the future. The schedules do not attempt to reflect any experience after June 30, 2015 that may deviate from the actuarial assumptions. Therefore, future amortization payments displayed in the Current Amortization Schedule may not match projected amortization payments shown in connection with Projected Employer Contributions provided elsewhere in this report.

The Current Amortization Schedule typically contains individual bases that are both positive and negative. Positive bases result from plan changes, assumption changes or plan experience that result in increases to unfunded liability. Negative bases result from plan changes, assumption changes or plan experience that result in decreases to unfunded liability. The combination of positive and negative bases within an amortization schedule can result in unusual or problematic circumstances in future years such as:

- A positive total unfunded liability with a negative total payment,
- A negative total unfunded liability with a positive total payment, or
- Total payments that completely amortize the unfunded liability over a very short period of time

In any year where one of the above scenarios occurs, the actuary will consider corrective action such as replacing the existing unfunded liability bases with a single "fresh start" base and amortizing it over a reasonable period.

The Current Amortization Schedule on the following page may appear to show that, based on the current amortization bases, one of the above scenarios will occur at some point in the future. It is impossible to know today whether such a scenario will in fact arise since there will be additional bases added to the amortization schedule in each future year. Should such a scenario arise in any future year, the actuary will take appropriate action based on guidelines in the CalPERS amortization policy. For purposes of this display, total payments include any negative payments. Therefore, the amount of estimated savings may be understated to the extent that negative payments appear in the current schedule.

## 30-Year Amortization Schedule and Alternatives

Date	<u>Current Amortization Schedule</u>		<u>Alternate Schedules</u>			
	Balance	Payment	20 Year Amortization		15 Year Amortization	
	Balance	Payment	Balance	Payment	Balance	Payment
6/30/2017	155,394,165	8,692,112	155,394,165	11,733,103	155,394,165	14,244,911
6/30/2018	158,036,550	9,990,348	154,883,587	12,085,096	152,279,289	14,672,258
6/30/2019	159,531,079	11,358,655	153,969,762	12,447,649	148,487,715	15,112,426
6/30/2020	159,719,006	12,039,556	152,611,497	12,821,078	143,955,397	15,565,799
6/30/2021	159,215,054	12,738,273	150,764,183	13,205,711	138,613,088	16,032,773
6/30/2022	157,948,862	13,120,420	148,379,524	13,601,882	132,385,937	16,513,756
6/30/2023	156,191,486	13,514,032	145,405,257	14,009,938	125,193,056	17,009,169
6/30/2024	153,894,202	13,919,452	141,784,838	14,430,237	116,947,054	17,519,444
6/30/2025	151,004,270	14,337,035	137,457,113	14,863,144	107,553,537	18,045,027
6/30/2026	147,464,633	14,767,147	132,355,961	15,309,038	96,910,570	18,586,378
6/30/2027	143,213,579	15,210,162	126,409,909	15,768,309	84,908,096	19,143,969
6/30/2028	138,184,365	15,666,465	119,541,722	16,241,358	71,427,314	19,718,288
6/30/2029	132,304,855	16,136,458	111,667,952	16,728,599	56,340,006	20,309,837
6/30/2030	125,497,079	16,620,556	102,698,468	17,230,457	39,507,820	20,919,132
6/30/2031	117,676,803	15,930,128	92,535,934	17,747,371	20,781,488	21,546,706
6/30/2032	109,985,856	15,612,347	81,075,264	18,279,792		
6/30/2033	102,047,570	14,029,142	68,203,017	18,828,186		
6/30/2034	95,155,415	13,605,875	53,796,764	19,393,031		
6/30/2035	88,185,199	13,144,583	37,724,399	19,974,822		
6/30/2036	81,170,496	12,643,370	19,843,392	20,574,067		
6/30/2037	74,149,358	13,022,673				
6/30/2038	66,208,365	13,413,351				
6/30/2039	57,266,735	13,815,750				
6/30/2040	47,237,261	15,304,240				
6/30/2041	34,912,283	12,357,903				
6/30/2042	24,717,757	12,655,275				
6/30/2043	13,450,322	11,944,298				
6/30/2044	2,074,982	1,326,069				
6/30/2045	855,709	229,818				
6/30/2046	681,608	706,706				
<b>Totals</b>		<b>367,852,199</b>		<b>315,272,868</b>		<b>264,939,873</b>
<b>Estimated Savings</b>				<b>52,579,331</b>		<b>102,912,326</b>

## Reconciliation of Required Employer Contributions

### Normal Cost (% of Payroll)

1. For Period 7/1/16 – 6/30/17	
a) Employer Normal Cost	18.551%
b) Employee Contribution	9.134%
c) Total Normal Cost	27.685%
2. Effect of changes since the prior year annual valuation	
a) Effect of changes in demographics results	0.160%
b) Effect of plan changes	0.000%
c) Effect of changes in assumptions	0.000%
d) Net effect of the changes above [sum of (a) through (c)]	0.160%
3. For Period 7/1/17 – 6/30/18	
a) Employer Normal Cost	18.709%
b) Employee Contribution	9.136%
c) Total Normal Cost	27.845%
Employer Normal Cost Change [(3a) – (1a)]	0.158%
Employee Contribution Change [(3b) – (1b)]	0.002%

### Unfunded Liability Contribution (\$)

1. For Period 7/1/16 – 6/30/17	7,461,031
2. Effect of changes since the prior year annual valuation	
a) Effect of changes in demographics and financial results	299,888
b) Effect of plan changes	0
c) Effect of changes in assumptions	0
d) Effect of progression of amortization payments	931,193
e) Effect of changes due to Fresh Start	0
f) Effect of elimination of amortization base	0
g) Net effect of the changes above [sum of (a) through (f)]	1,231,081
3. For Period 7/1/17 – 6/30/18 [(1)+(2g)]	8,692,112

The amounts shown for the period 7/1/16 – 6/30/17 may be different if a prepayment of unfunded actuarial liability is made or a plan change became effective after the prior year's actuarial valuation was performed.

## Employer Contribution History

The table below provides a recent history of the required employer contributions for the plan, as determined by the annual actuarial valuation. It does not account for prepayments or benefit changes made during a fiscal year.

Fiscal Year	Employer Normal Cost	Required By Valuation	
		Unfunded Rate	Unfunded Liability Payment (\$)
2012 - 13	17.265%	16.609%	N/A
2013 - 14	17.686%	18.114%	N/A
2014 - 15	17.706%	20.405%	N/A
2015 - 16	17.581%	23.313%	N/A
2016 - 17	18.551%	26.714%	N/A
2017 - 18	18.709%	N/A	8,692,112

## Funding History

The table below shows the recent history of the actuarial accrued liability, the market value of assets, the funded ratio and the annual covered payroll.

Valuation Date	Accrued Liability	Market Value of Assets (MVA)	Unfunded Liability	Funded Ratio	Annual Covered Payroll
06/30/10	\$ 350,374,623	\$ 218,044,465	\$ 132,330,158	62.2%	\$ 25,883,106
06/30/11	372,523,372	258,062,559	114,460,813	69.3%	25,796,337
06/30/12	387,791,595	251,498,319	136,293,276	64.9%	25,780,951
06/30/13	403,774,300	275,610,840	128,163,460	68.3%	25,817,694
06/30/14	439,596,016	315,100,771	124,495,245	71.7%	25,558,857
06/30/15	459,725,345	312,659,142	147,066,203	68.0%	26,681,311

## **RISK ANALYSIS**

- **ANALYSIS OF FUTURE INVESTMENT RETURN SCENARIOS**
- **ANALYSIS OF DISCOUNT RATE SENSITIVITY**
- **VOLATILITY RATIOS**
- **HYPOTHETICAL TERMINATION LIABILITY**



## Analysis of Future Investment Return Scenarios

The investment return for Fiscal Year 2015-16 was not known at the time this report was produced. The investment return in Fiscal Year 2015-16 as of April 30, 2016 is 0.0 percent before administrative expenses. For purposes of projecting future employer contributions, we are assuming a 0.0 percent investment return for Fiscal Year 2015-16.

The investment return realized during a fiscal year first affects the required contribution for the fiscal year two years later. For example, the investment return for Fiscal Year 2015-16 will first be reflected in the June 30, 2016 actuarial valuation that will be used to set the employer contribution for Fiscal Year 2018-19. The Fiscal Year 2016-17 investment return will first be reflected in the June 30, 2017 actuarial valuation that will be used to set the employer contribution for Fiscal Year 2019-20 and so forth.

As part of this report, a sensitivity analysis was performed to determine the effects of various investment returns during fiscal years 2016-17, 2017-18 and 2018-19 on the 2019-20, 2020-21 and 2021-22 employer contributions. Once again, the projections assume that all other actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur.

Five different investment return scenarios were selected.

- The first scenario is a -3.8 percent return for each of the 2016-17, 2017-18, and 2018-19 fiscal years. Based on the current investment allocation, this is what one would expect if the markets were to give us about a 5<sup>th</sup> percentile return from July 1, 2016 through June 30, 2019.
- The second scenario is a 2.8 percent return for each of the 2016-17, 2017-18, and 2018-19 fiscal years. Based on the current investment allocation, this is what one would expect if the markets were to give us about a 25<sup>th</sup> percentile return from July 1, 2016 through June 30, 2019.
- The third scenario is a 7.5 percent return for each of the 2016-17, 2017-18, and 2018-19 fiscal years. Based on the current investment allocation, this is what one would expect if the markets were to give us about a 49<sup>th</sup> percentile return from July 1, 2016 through June 30, 2019.
- The fourth scenario is a 12.0 percent return for each of the 2016-17, 2017-18, and 2018-19 fiscal years. Based on the current investment allocation, this is what one would expect if the markets were to give us about a 75<sup>th</sup> percentile return from July 1, 2016 through June 30, 2019.
- Finally, the last scenario is an 18.9 percent return for each of the 2016-17, 2017-18, and 2018-19 fiscal years. Based on the current investment allocation, this is what one would expect if the markets were to give us about a 95<sup>th</sup> percentile return from July 1, 2016 through June 30, 2019.

The table below shows the estimated projected contributions and the estimated increases for the plan under the five different scenarios.

2016-19 Investment Return Scenario	Fiscal Year			Estimated Change Between 2018-19 and 2021-22
	2019-20	2020-21	2021-22	
<b>(3.8%)</b>				
Normal Cost	18.7%	18.7%	18.7%	0.0%
UAL Contribution	\$12,682,514	\$14,884,654	\$17,679,804	\$7,314,044
<b>2.8%</b>				
Normal Cost	18.7%	18.7%	18.7%	0.0%
UAL Contribution	\$12,361,024	\$13,936,025	\$15,813,096	\$5,447,336
<b>7.5%</b>				
Normal Cost	18.7%	18.7%	18.7%	0.0%
UAL Contribution	\$12,132,004	\$13,234,380	\$14,379,165	\$4,013,405
<b>12.0%</b>				
Normal Cost	19.1%	19.5%	19.9%	1.2%
UAL Contribution	\$11,904,160	\$12,576,585	\$13,052,771	\$2,687,011
<b>18.9%</b>				
Normal Cost	19.9%	21.1%	22.3%	3.6%
UAL Contribution	\$11,555,962	\$11,578,066	\$11,017,974	\$652,214

For the last two scenarios in the table above the results incorporate the impact of CalPERS Risk Mitigation Policy. A 12.0% return would result in a reduction of the discount rate by 0.05% and a return of 18.9% would reduce the discount rate by 0.15%. Reducing the discount rate increases both the plan's accrued liability and normal cost. While the projections reflect estimated changes to the normal cost due to lower discount rates, they do not reflect the possible increase in the PEPRAs member contribution rate in such scenarios. More details about the Risk Mitigation policy can be found on our website.

The projected normal cost percentages do not reflect that the normal cost will decline over time as new employees are hired into PEPRAs or other lower cost benefit tiers.

## Analysis of Discount Rate Sensitivity

The following analysis looks at the Fiscal Year 2017-18 total normal cost rates and liabilities under two different discount rate scenarios. Shown below are the total normal cost rates assuming discount rates that are 1 percent lower and 1 percent higher than the current valuation discount rate. This analysis shows the potential plan impacts if the PERF were to realize investment returns of 6.50 percent or 8.50 percent over the long-term.

This type of analysis gives the reader a sense of the long-term risk to required contributions.

Sensitivity Analysis			
As of June 30, 2015	6.50% Discount Rate (-1%)	7.50% Discount Rate (assumed rate)	8.50% Discount Rate (+1%)
Plan's Total Normal Cost	35.716%	27.845%	21.951%
Accrued Liability	\$522,221,761	\$459,725,345	\$408,500,688
Unfunded Accrued Liability	\$209,562,619	\$147,066,203	\$95,841,546

## Volatility Ratios

The actuarial calculations supplied in this communication are based on a number of assumptions about long-term demographic and economic behavior. Unless these assumptions (terminations, deaths, disabilities, retirements, salary growth, and investment return) are exactly realized each year, there will be differences on a year-to-year basis. The year-to-year differences between actual experience and the assumptions are called actuarial gains and losses and serve to lower or raise required employer contributions from one year to the next. Therefore, employer contributions will inevitably fluctuate, especially due to the ups and downs of investment returns.

### Asset Volatility Ratio (AVR)

Plans that have higher asset-to-payroll ratios experience more volatile employer contributions (as a percentage of payroll) due to investment return. For example, a plan with an asset-to-payroll ratio of 8 may experience twice the contribution volatility due to investment return volatility than a plan with an asset-to-payroll ratio of 4. Shown below is the asset volatility ratio, a measure of the plan's current volatility. It should be noted that this ratio is a measure of the current situation. It increases over time but generally tends to stabilize as the plan matures.

### Liability Volatility Ratio (LVR)

Plans that have higher liability-to-payroll ratios experience more volatile employer contributions (as a percentage of payroll) due to investment return and changes in liability. For example, a plan with a liability-to-payroll ratio of 8 is expected to have twice the contribution volatility of a plan with a liability-to-payroll ratio of 4. The liability volatility ratio is also included in the table below. It should be noted that this ratio indicates a longer-term potential for contribution volatility. The asset volatility ratio, described above, will tend to move closer to the liability volatility ratio as the plan matures.

Contribution Volatility	As of June 30, 2015	
1. Market Value of Assets without Receivables	\$	312,226,987
2. Payroll		26,681,311
3. Asset Volatility Ratio (AVR) [(1) / (2)]		11.7
4. Accrued Liability	\$	459,725,345
5. Liability Volatility Ratio (LVR) [(4) / (2)]		17.2

## Hypothetical Termination Liability

The hypothetical termination liability is an estimate of the financial position of the plan had the contract with CalPERS been terminated as of June 30, 2015. The plan liability on a termination basis is calculated differently compared to the plan's ongoing funding liability. For this hypothetical termination liability calculation, both compensation and service are frozen as of the valuation date and no future pay increases or service accruals are assumed.

A more conservative investment policy and asset allocation strategy was adopted by the CalPERS Board for the Terminated Agency Pool. The Terminated Agency Pool has limited funding sources since no future employer contributions will be made. Therefore, expected benefit payments are secured by risk-free assets and benefit security for members is increased while limiting the funding risk. However, this asset allocation has a lower expected rate of return than the PERF and consequently, a lower discount rate assumption. The lower discount rate for the Terminated Agency Pool results in higher liabilities for terminated plans.

The effective termination discount rate will depend on actual market rates of return for risk-free securities on the date of termination. As market discount rates are variable the table below shows a range for the hypothetical termination liability based on the lowest and highest interest rates observed during an approximate 2-year period centered around the valuation date.

<b>Market Value of Assets (MVA)</b>	<b>Hypothetical Termination Liability<sup>1,2</sup> @ 2.00%</b>	<b>Funded Status</b>	<b>Unfunded Termination Liability @ 2.00%</b>	<b>Hypothetical Termination Liability<sup>1,2</sup> @ 3.25%</b>	<b>Funded Status</b>	<b>Unfunded Termination Liability @ 3.25%</b>
\$312,659,142	\$975,901,347	32.0%	\$663,242,205	\$806,401,988	38.8%	\$493,742,846

<sup>1</sup> The hypothetical liabilities calculated above include a 7 percent mortality contingency load in accordance with Board policy. Other actuarial assumptions, such as wage and inflation assumptions, can be found in Appendix A.

<sup>2</sup> The current discount rate assumption used for termination valuations is a weighted average of the 10-year and 30-year U.S. Treasury yields where the weights are based on matching asset and liability durations as of the termination date. The discount rates used in the table are based on 20-year Treasury bonds, rounded to the nearest quarter percentage point, which is a good proxy for most plans. The 20-year Treasury yield was 2.75 percent on June 30, 2015.

In order to terminate the plan, you must first contact our Retirement Services Contract Unit to initiate a Resolution of Intent to Terminate. The completed Resolution will allow the plan actuary to give you a preliminary termination valuation with a more up-to-date estimate of the plan liabilities. CalPERS advises you to consult with the plan actuary before beginning this process.

## PLAN'S MAJOR BENEFIT PROVISIONS

## Plan's Major Benefit Options

Shown below is a summary of the major optional benefits for which your agency has contracted. A description of principal standard and optional plan provisions is in the following section of this Appendix.

Benefit Provision	Contract Package					
	Active Fire	Active Police	Active Fire	Active Police	Receiving Fire	Receiving Police
Benefit Formula	3.0% @ 50 No Full	3.0% @ 50 No Full	2.7% @ 57 No Full	2.7% @ 57 No Full		
Social Security Coverage Full/Modified						
Employee Contribution Rate	9.00%	9.00%	11.00%	11.00%		
Final Average Compensation Period	One Year	One Year	Three Year	Three Year		
Sick Leave Credit	Yes	Yes	Yes	Yes		
Non-Industrial Disability	Standard	Standard	Standard	Standard		
Industrial Disability	Yes	Yes	Yes	Yes		
Pre-Retirement Death Benefits						
Optional Settlement 2W	Yes	Yes	Yes	Yes		
1959 Survivor Benefit Level	Indexed	Indexed	Indexed	Indexed		
Special	Yes	Yes	Yes	Yes		
Alternate (firefighters)	No	No	No	No		
Post-Retirement Death Benefits						
Lump Sum	\$5000	\$5000	\$5000	\$5000	\$5000	\$5000
Survivor Allowance (PRSA)	Yes	Yes	Yes	Yes	Yes	Yes
COLA	2%	2%	2%	2%	2%	2%

## **APPENDICES**

- **APPENDIX A – ACTUARIAL METHODS AND ASSUMPTIONS**
- **APPENDIX B – PRINCIPAL PLAN PROVISIONS**
- **APPENDIX C – PARTICIPANT DATA**
- **APPENDIX D – DEVELOPMENT OF PEPRA MEMBER CONTRIBUTION RATES**
- **APPENDIX E – GLOSSARY OF ACTUARIAL TERMS**

## **APPENDIX A**

### **ACTUARIAL METHODS AND ASSUMPTIONS**

- **ACTUARIAL DATA**
- **ACTUARIAL METHODS**
- **ACTUARIAL ASSUMPTIONS**
- **MISCELLANEOUS**



## Actuarial Data

As stated in the Actuarial Certification, the data which serves as the basis of this valuation has been obtained from the various CalPERS databases. We have reviewed the valuation data and believe that it is reasonable and appropriate in aggregate. We are unaware of any potential data issues that would have a material effect on the results of this valuation, except that data does not always contain the latest salary information for former members now in reciprocal systems and does not recognize the potential for unusually large salary deviation in certain cases such as elected officials. Therefore, salary information in these cases may not be accurate. These situations are relatively infrequent, however, and when they do occur, they generally do not have a material impact on the required employer contributions.

## Actuarial Methods

### Actuarial Cost Method

The actuarial cost method used is the Entry Age Normal Cost Method. Under this method, projected benefits are determined for all members and the associated liabilities are spread in a manner that produces level annual cost as a percentage of pay in each year from the member's age of hire (entry age) to their assumed retirement age on the valuation date. The cost allocated to the current fiscal year is called the normal cost.

The actuarial accrued liability for active members is then calculated as the portion of the total cost of the plan allocated to prior years. The actuarial accrued liability for members currently receiving benefits and for members entitled to deferred benefits is equal to the present value of the benefits expected to be paid. No normal costs are applicable for these participants.

### Amortization of Unfunded Actuarial Accrued Liability

The excess of the total actuarial accrued liability over the market value of plan assets is called the unfunded actuarial accrued liability (UAL). Funding requirements are determined by adding the normal cost and an amortization payment toward the unfunded liability. Commencing with the June 30, 2013 valuation, all new gains or losses are tracked and amortized over a fixed 30-year period with a 5 year ramp up at the beginning and a 5 year ramp down at the end of the amortization period. All changes in liability due to plan amendments (other than golden handshakes) are amortized over a 20-year period with no ramp. Changes in actuarial assumptions, or changes in actuarial methodology are amortized over a 20-year period with a 5 year ramp up at the beginning and a 5 year ramp down at the end of the amortization period. Changes in unfunded accrued liability due to a Golden Handshake will be amortized over a period of 5 years.

#### Exceptions for Inconsistencies:

An exception to the amortization rules above is used whenever their application results in inconsistencies. In these cases, a "fresh start" approach is used. This means that the current unfunded actuarial liability is projected and amortized over a set number of years. For example, a fresh start is needed in the following situations:

- 1) When a positive payment would be required on a negative unfunded actuarial liability (or conversely a negative payment on a positive unfunded actuarial liability); or
- 2) When there are excess assets, rather than an unfunded liability. In this situation, a 30-year fresh start is used.

It should be noted that the actuary may determine that a fresh start is necessary under other circumstances. In all cases of a fresh start, the period is set by the actuary at what is deemed appropriate; however, the period will not be greater than 30 years.

Exceptions for Inactive Plans:

The following exceptions apply to plans classified as Inactive. These plans have no active members and no expectation to have active members in the future.

- Amortization of unfunded liability is on a “level dollar” basis rather than a “level percent of pay” basis
- Actuarial judgment will be used to shorten amortization periods for Inactive plans with existing periods that are deemed too long given the duration of the liability. In many cases, a Fresh Start approach with a 20 year closed period will be used. However, the specific demographics of the plan will be used to determine if periods shorter or longer than 20 years may be more appropriate.

**Asset Valuation Method**

It is the policy of the CalPERS Board of Administration to use professionally accepted amortization methods to eliminate a surplus or an unfunded accrued liability in a manner that maintains benefit security for the members of the System while minimizing substantial variations in required employer contributions. On April 17, 2013, the CalPERS Board of Administration approved a recommendation to change the CalPERS amortization and rate smoothing policies. Beginning with the June 30, 2013 valuations that set the employer contribution for Fiscal Year 2015-16, CalPERS employs a policy that amortizes all gains and losses over a fixed 30-year period. The increase or decrease in the rate is then spread directly over a 5-year period. This method is referred to as “direct rate smoothing.” CalPERS no longer uses an actuarial value of assets and only uses the market value of assets. The direct rate smoothing method is equivalent to a method using a 5 year asset smoothing period with no actuarial value of asset corridor and a 25-year amortization period for gains and losses.

**PEPRA Normal Cost Rate Methodology**

Per Government Code Section 7522.30(b) the “normal cost rate” shall mean the annual actuarially determined normal cost for the plan of retirement benefits provided to the new member and shall be established based on actuarial assumptions used to determine the liabilities and costs as part of the annual actuarial valuation. The plan of retirement benefits shall include any elements that would impact the actuarial determination of the normal cost, including, but not limited to, the retirement formula, eligibility and vesting criteria, ancillary benefit provisions, and any automatic cost-of-living adjustments as determined by the public retirement system.

Each non-pooled plan is considered to be stable with a sufficiently large demographic of actives. It is preferable to determine normal cost using a large active population ongoing so that this rate remains relatively stable. The total PEPRA normal cost will be calculated using all active members within a non-pooled plan. Accordingly, plans will be funded equally between employer and employee based on the demographics of the employees of that employer. As each non-pooled plan builds up to either 100+ active PEPRA members or half of their active population is under the PEPRA formula, the total PEPRA normal cost will be based on the active PEPRA population in the plan.

## Actuarial Assumptions

In 2014, CalPERS completed a 2-year asset liability management study incorporating actuarial assumptions and strategic asset allocation. On February 19, 2014, the CalPERS Board of Administration adopted relatively modest changes to the current asset allocation that will reduce the expected volatility of returns. The adopted asset allocation is expected to have a long-term blended return that continues to support a discount rate assumption of 7.5 percent. The Board also approved several changes to the demographic assumptions that more closely align with actual experience. The most significant of these is mortality improvement to acknowledge the greater life expectancies we are seeing in our membership and expected continued improvements. The new actuarial assumptions were first used in the June 30, 2014 valuation to set the Fiscal Year 2016-17 contribution for public agency employers. The increase in liability due to new actuarial assumptions is amortized over a 20-year period with a 5-year ramp-up/ramp-down in accordance with Board policy. These new actuarial assumptions are set forth in this section.

For more details and additional rationale for the selection of the actuarial assumptions, please refer to the CalPERS Experience Study and Review of Actuarial Assumptions report from January 2014 that can be found on the CalPERS website under: "Forms and Publications". Click on "View All" and search for Experience Study.

All actuarial assumptions (except the discount rates used for the hypothetical termination liability) represent an estimate of future experience rather than observations of the estimates inherent in market data.

### **Economic Assumptions**

#### **Discount Rate**

7.5 percent compounded annually (net of expenses). This assumption is used for all plans.

#### **Termination Liability Discount Rate**

The current discount rate assumption used for termination valuations is a weighted average of the 10-year and 30-year U.S. Treasury yields where the weights are based on matching asset and liability durations as of the termination date.

The hypothetical termination liabilities in this report are calculated using an observed range of market interest rates. This range is based on the lowest and highest 20-year Treasury bond observed during an approximate 2-year period centered around the valuation date. The 20-year Treasury bond has a similar duration to most plan liabilities and serves as a good proxy for the termination discount rate. The 20-year Treasury yield was 2.75 percent on June 30, 2015.

**Salary Growth**

Annual increases vary by category, entry age, and duration of service. A sample of assumed increases are shown below.

**Public Agency Miscellaneous**

Duration of Service	(Entry Age 20)	(Entry Age 30)	(Entry Age 40)
0	0.1220	0.1160	0.1020
1	0.0990	0.0940	0.0830
2	0.0860	0.0810	0.0710
3	0.0770	0.0720	0.0630
4	0.0700	0.0650	0.0570
5	0.0640	0.0600	0.0520
10	0.0460	0.0430	0.0390
15	0.0420	0.0400	0.0360
20	0.0390	0.0380	0.0340
25	0.0370	0.0360	0.0330
30	0.0350	0.0340	0.0320

**Public Agency Fire**

Duration of Service	(Entry Age 20)	(Entry Age 30)	(Entry Age 40)
0	0.2000	0.1980	0.1680
1	0.1490	0.1460	0.1250
2	0.1200	0.1160	0.0990
3	0.0980	0.0940	0.0810
4	0.0820	0.0780	0.0670
5	0.0690	0.0640	0.0550
10	0.0470	0.0460	0.0420
15	0.0440	0.0420	0.0390
20	0.0420	0.0390	0.0360
25	0.0400	0.0370	0.0340
30	0.0380	0.0360	0.0340

**Public Agency Police**

Duration of Service	(Entry Age 20)	(Entry Age 30)	(Entry Age 40)
0	0.1500	0.1470	0.1310
1	0.1160	0.1120	0.1010
2	0.0950	0.0920	0.0830
3	0.0810	0.0780	0.0700
4	0.0700	0.0670	0.0600
5	0.0610	0.0580	0.0520
10	0.0450	0.0430	0.0370
15	0.0450	0.0430	0.0370
20	0.0450	0.0430	0.0370
25	0.0450	0.0430	0.0370
30	0.0450	0.0430	0.0370

**Salary Growth** (continued)

<b>Public Agency County Peace Officers</b>			
<u>Duration of Service</u>	<u>(Entry Age 20)</u>	<u>(Entry Age 30)</u>	<u>(Entry Age 40)</u>
0	0.1770	0.1670	0.1500
1	0.1340	0.1260	0.1140
2	0.1080	0.1030	0.0940
3	0.0900	0.0860	0.0790
4	0.0760	0.0730	0.0670
5	0.0650	0.0620	0.0580
10	0.0470	0.0450	0.0410
15	0.0460	0.0450	0.0390
20	0.0460	0.0450	0.0380
25	0.0460	0.0450	0.0380
30	0.0460	0.0440	0.0380

<b>Schools</b>			
<u>Duration of Service</u>	<u>(Entry Age 20)</u>	<u>(Entry Age 30)</u>	<u>(Entry Age 40)</u>
0	0.0900	0.0880	0.0820
1	0.0780	0.0750	0.0700
2	0.0700	0.0680	0.0630
3	0.0650	0.0630	0.0580
4	0.0610	0.0590	0.0540
5	0.0580	0.0560	0.0510
10	0.0460	0.0450	0.0410
15	0.0420	0.0410	0.0380
20	0.0390	0.0380	0.0350
25	0.0370	0.0350	0.0330
30	0.0350	0.0330	0.0310

- The Miscellaneous salary scale is used for Local Prosecutors.
- The Police salary scale is used for Other Safety, Local Sheriff, and School Police.

**Overall Payroll Growth**

3.00 percent compounded annually (used in projecting the payroll over which the unfunded liability is amortized). This assumption is used for all plans.

**Inflation**

2.75 percent compounded annually. This assumption is used for all plans.

**Non-valued Potential Additional Liabilities**

The potential liability loss for a cost-of-living increase exceeding the 2.75 percent inflation assumption, and any potential liability loss from future member service purchases are not reflected in the valuation.

**Miscellaneous Loading Factors**

**Credit for Unused Sick Leave**

Total years of service is increased by 1 percent for those plans that have accepted the provision providing Credit for Unused Sick Leave.

### **Conversion of Employer Paid Member Contributions (EPMC)**

Total years of service is increased by the Employee Contribution Rate for those plans with the provision providing for the Conversion of Employer Paid Member Contributions (EPMC) during the final compensation period.

### **Norris Decision (Best Factors)**

Employees hired prior to July 1, 1982 have projected benefit amounts increased in order to reflect the use of "Best Factors" in the calculation of optional benefit forms. This is due to a 1983 Supreme Court decision, known as the Norris decision, which required males and females to be treated equally in the determination of benefit amounts. Consequently, anyone already employed at that time is given the best possible conversion factor when optional benefits are determined. No loading is necessary for employees hired after July 1, 1982.

### **Termination Liability**

The termination liabilities include a 7 percent contingency load. This load is for unforeseen improvements in mortality.

### **Demographic Assumptions**

#### **Pre-Retirement Mortality**

Non-industrial death rates vary by age and gender. Industrial death rates vary by age. See sample rates in table below. The non-industrial death rates are used for all plans. The industrial death rates are used for safety plans (except for Local Prosecutor safety members where the corresponding miscellaneous plan does not have the Industrial Death Benefit).

Age	<b>Non-Industrial Death (Not Job-Related)</b>		<b>Industrial Death (Job-Related)</b>
	Male	Female	Male and Female
20	0.00031	0.00020	0.00003
25	0.00040	0.00023	0.00007
30	0.00049	0.00025	0.00010
35	0.00057	0.00035	0.00012
40	0.00075	0.00050	0.00013
45	0.00106	0.00071	0.00014
50	0.00155	0.00100	0.00015
55	0.00228	0.00138	0.00016
60	0.00308	0.00182	0.00017
65	0.00400	0.00257	0.00018
70	0.00524	0.00367	0.00019
75	0.00713	0.00526	0.00020
80	0.00990	0.00814	0.00021

Miscellaneous plans usually have industrial death rates set to zero unless the agency has specifically contracted for industrial death benefits. If so, each non-industrial death rate shown above will be split into two components; 99 percent will become the non-industrial death rate and 1 percent will become the industrial death rate.

### Post-Retirement Mortality

Rates vary by age, type of retirement, and gender. See sample rates in table below. These rates are used for all plans.

Age	Healthy Recipients		Non-Industrially Disabled (Not Job-Related)		Industrially Disabled (Job-Related)	
	Male	Female	Male	Female	Male	Female
50	0.00501	0.00466	0.01680	0.01158	0.00501	0.00466
55	0.00599	0.00416	0.01973	0.01149	0.00599	0.00416
60	0.00710	0.00436	0.02289	0.01235	0.00754	0.00518
65	0.00829	0.00588	0.02451	0.01607	0.01122	0.00838
70	0.01305	0.00993	0.02875	0.02211	0.01635	0.01395
75	0.02205	0.01722	0.03990	0.03037	0.02834	0.02319
80	0.03899	0.02902	0.06083	0.04725	0.04899	0.03910
85	0.06969	0.05243	0.09731	0.07762	0.07679	0.06251
90	0.12974	0.09887	0.14804	0.12890	0.12974	0.09887
95	0.22444	0.18489	0.22444	0.21746	0.22444	0.18489
100	0.32536	0.30017	0.32536	0.30017	0.32536	0.30017
105	0.58527	0.56093	0.58527	0.56093	0.58527	0.56093
110	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

The post-retirement mortality rates above include 20 years of projected on-going mortality improvement using Scale BB published by the Society of Actuaries.

### Marital Status

For active members, a percentage who are married upon retirement is assumed according to member category as shown in the following table.

Member Category	Percent Married
Miscellaneous Member	85%
Local Police	90%
Local Fire	90%
Other Local Safety	90%
School Police	90%

### Age of Spouse

It is assumed that female spouses are 3 years younger than male spouses. This assumption is used for all plans.

### Terminated Members

It is assumed that terminated members refund immediately if non-vested. Terminated members who are vested are assumed to follow the same service retirement pattern as active members but with a load to reflect the expected higher rates of retirement, especially at lower ages. The following table shows the load factors that are applied to the service retirement assumption for active members to obtain the service retirement pattern for separated vested members:

Age	Load Factor Miscellaneous	Load Factor Safety
50	190%	310%
51	110%	190%
52	110%	105%
53 through 54	100%	105%
55	100%	140%
56 and above	100% (no change)	100% (no change)

### Termination with Refund

Rates vary by entry age and service for miscellaneous plans. Rates vary by service for safety plans. See sample rates in tables below.

**Public Agency Miscellaneous**

Duration of Service	Entry Age 20	Entry Age 25	Entry Age 30	Entry Age 35	Entry Age 40	Entry Age 45
0	0.1742	0.1674	0.1606	0.1537	0.1468	0.1400
1	0.1545	0.1477	0.1409	0.1339	0.1271	0.1203
2	0.1348	0.1280	0.1212	0.1142	0.1074	0.1006
3	0.1151	0.1083	0.1015	0.0945	0.0877	0.0809
4	0.0954	0.0886	0.0818	0.0748	0.0680	0.0612
5	0.0212	0.0193	0.0174	0.0155	0.0136	0.0116
10	0.0138	0.0121	0.0104	0.0088	0.0071	0.0055
15	0.0060	0.0051	0.0042	0.0032	0.0023	0.0014
20	0.0037	0.0029	0.0021	0.0013	0.0005	0.0001
25	0.0017	0.0011	0.0005	0.0001	0.0001	0.0001
30	0.0005	0.0001	0.0001	0.0001	0.0001	0.0001
35	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

**Public Agency Safety**

Duration of Service	Fire	Police	County Peace Officer
0	0.0710	0.1013	0.0997
1	0.0554	0.0636	0.0782
2	0.0398	0.0271	0.0566
3	0.0242	0.0258	0.0437
4	0.0218	0.0245	0.0414
5	0.0029	0.0086	0.0145
10	0.0009	0.0053	0.0089
15	0.0006	0.0027	0.0045
20	0.0005	0.0017	0.0020
25	0.0003	0.0012	0.0009
30	0.0003	0.0009	0.0006
35	0.0003	0.0009	0.0006

The police termination and refund rates are also used for Public Agency Local Prosecutors, Other Safety, Local Sheriff, and School Police.

**Schools**

Duration of Service	Entry Age 20	Entry Age 25	Entry Age 30	Entry Age 35	Entry Age 40	Entry Age 45
0	0.1730	0.1627	0.1525	0.1422	0.1319	0.1217
1	0.1585	0.1482	0.1379	0.1277	0.1174	0.1071
2	0.1440	0.1336	0.1234	0.1131	0.1028	0.0926
3	0.1295	0.1192	0.1089	0.0987	0.0884	0.0781
4	0.1149	0.1046	0.0944	0.0841	0.0738	0.0636
5	0.0278	0.0249	0.0221	0.0192	0.0164	0.0135
10	0.0172	0.0147	0.0122	0.0098	0.0074	0.0049
15	0.0115	0.0094	0.0074	0.0053	0.0032	0.0011
20	0.0073	0.0055	0.0038	0.0020	0.0002	0.0002
25	0.0037	0.0023	0.0010	0.0002	0.0002	0.0002
30	0.0015	0.0003	0.0002	0.0002	0.0002	0.0002
35	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002



**Termination with Vested Benefits**

Rates vary by entry age and service for miscellaneous plans. Rates vary by service for safety plans. See sample rates in tables below.

**Public Agency Miscellaneous**

Duration of Service	Entry Age 20	Entry Age 25	Entry Age 30	Entry Age 35	Entry Age 40
5	0.0656	0.0597	0.0537	0.0477	0.0418
10	0.0530	0.0466	0.0403	0.0339	0.0000
15	0.0443	0.0373	0.0305	0.0000	0.0000
20	0.0333	0.0261	0.0000	0.0000	0.0000
25	0.0212	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000	0.0000

**Public Agency Safety**

Duration of Service	Fire	Police	County Peace Officer
5	0.0162	0.0163	0.0265
10	0.0061	0.0126	0.0204
15	0.0058	0.0082	0.0130
20	0.0053	0.0065	0.0074
25	0.0047	0.0058	0.0043
30	0.0045	0.0056	0.0030
35	0.0000	0.0000	0.0000

- When a member is eligible to retire, the termination with vested benefits probability is set to zero.
- After termination with vested benefits, a miscellaneous member is assumed to retire at age 59 and a safety member at age 54.
- The Police termination with vested benefits rates are also used for Public Agency Local Prosecutors, Other Safety, Local Sheriff, and School Police.

**Schools**

Duration of Service	Entry Age 20	Entry Age 25	Entry Age 30	Entry Age 35	Entry Age 40
5	0.0816	0.0733	0.0649	0.0566	0.0482
10	0.0629	0.0540	0.0450	0.0359	0.0000
15	0.0537	0.0440	0.0344	0.0000	0.0000
20	0.0420	0.0317	0.0000	0.0000	0.0000
25	0.0291	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000	0.0000

**Non-Industrial (Not Job-Related) Disability**

Rates vary by age and gender for miscellaneous plans. Rates vary by age and category for safety plans.

Age	Miscellaneous		Fire	Police	County Peace Officer	Schools	
	Male	Female	Male and Female	Male and Female	Male and Female	Male	Female
20	0.0002	0.0001	0.0001	0.0001	0.0001	0.0003	0.0003
25	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
30	0.0002	0.0002	0.0001	0.0002	0.0001	0.0001	0.0002
35	0.0005	0.0008	0.0001	0.0003	0.0004	0.0005	0.0004
40	0.0012	0.0016	0.0001	0.0004	0.0007	0.0015	0.0010
45	0.0019	0.0022	0.0002	0.0005	0.0013	0.0030	0.0019
50	0.0021	0.0023	0.0005	0.0008	0.0018	0.0039	0.0024
55	0.0022	0.0018	0.0010	0.0013	0.0010	0.0036	0.0021
60	0.0022	0.0014	0.0015	0.0020	0.0006	0.0031	0.0014

- The miscellaneous non-industrial disability rates are used for Local Prosecutors.
- The police non-industrial disability rates are also used for Other Safety, Local Sheriff, and School Police.

**Industrial (Job-Related) Disability**

Rates vary by age and category.

Age	Fire	Police	County Peace Officer
20	0.0001	0.0000	0.0004
25	0.0003	0.0017	0.0013
30	0.0007	0.0048	0.0025
35	0.0016	0.0079	0.0037
40	0.0030	0.0110	0.0051
45	0.0053	0.0141	0.0067
50	0.0277	0.0185	0.0092
55	0.0409	0.0479	0.0151
60	0.0583	0.0602	0.0174

- The police industrial disability rates are also used for Local Sheriff and Other Safety.
- Fifty percent of the police industrial disability rates are used for School Police.
- One percent of the police industrial disability rates are used for Local Prosecutors.
- Normally, rates are zero for miscellaneous plans unless the agency has specifically contracted for industrial disability benefits. If so, each miscellaneous non-industrial disability rate will be split into two components: 50 percent will become the non-industrial disability rate and 50 percent will become the industrial disability rate.

**Service Retirement**

Retirement rates vary by age, service, and formula, except for the safety ½ @ 55 and 2% @ 55 formulas, where retirement rates vary by age only.

**Service Retirement**

**Public Agency Miscellaneous 1.5% @ 65**

Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.008	0.011	0.013	0.015	0.017	0.019
51	0.007	0.010	0.012	0.013	0.015	0.017
52	0.010	0.014	0.017	0.019	0.021	0.024
53	0.008	0.012	0.015	0.017	0.019	0.022
54	0.012	0.016	0.019	0.022	0.025	0.028
55	0.018	0.025	0.031	0.035	0.038	0.043
56	0.015	0.021	0.025	0.029	0.032	0.036
57	0.020	0.028	0.033	0.038	0.043	0.048
58	0.024	0.033	0.040	0.046	0.052	0.058
59	0.028	0.039	0.048	0.054	0.060	0.067
60	0.049	0.069	0.083	0.094	0.105	0.118
61	0.062	0.087	0.106	0.120	0.133	0.150
62	0.104	0.146	0.177	0.200	0.223	0.251
63	0.099	0.139	0.169	0.191	0.213	0.239
64	0.097	0.136	0.165	0.186	0.209	0.233
65	0.140	0.197	0.240	0.271	0.302	0.339
66	0.092	0.130	0.157	0.177	0.198	0.222
67	0.129	0.181	0.220	0.249	0.277	0.311
68	0.092	0.129	0.156	0.177	0.197	0.221
69	0.092	0.130	0.158	0.178	0.199	0.224
70	0.103	0.144	0.175	0.198	0.221	0.248

**Public Agency Miscellaneous 2% @ 60**

Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.010	0.013	0.015	0.018	0.019	0.021
51	0.009	0.011	0.014	0.016	0.017	0.019
52	0.011	0.014	0.017	0.020	0.022	0.024
53	0.010	0.012	0.015	0.017	0.020	0.021
54	0.015	0.019	0.023	0.025	0.029	0.031
55	0.022	0.029	0.035	0.040	0.045	0.049
56	0.018	0.024	0.028	0.033	0.036	0.040
57	0.024	0.032	0.038	0.043	0.049	0.053
58	0.027	0.036	0.043	0.049	0.055	0.061
59	0.033	0.044	0.054	0.061	0.068	0.076
60	0.056	0.077	0.092	0.105	0.117	0.130
61	0.071	0.097	0.118	0.134	0.149	0.166
62	0.117	0.164	0.198	0.224	0.250	0.280
63	0.122	0.171	0.207	0.234	0.261	0.292
64	0.114	0.159	0.193	0.218	0.244	0.271
65	0.150	0.209	0.255	0.287	0.321	0.358
66	0.114	0.158	0.192	0.217	0.243	0.270
67	0.141	0.196	0.238	0.270	0.301	0.337
68	0.103	0.143	0.174	0.196	0.219	0.245
69	0.109	0.153	0.185	0.209	0.234	0.261
70	0.117	0.162	0.197	0.222	0.248	0.277

**Service Retirement**

**Public Agency Miscellaneous 2% @ 55**

Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.014	0.018	0.021	0.025	0.027	0.031
51	0.012	0.014	0.017	0.020	0.021	0.025
52	0.013	0.017	0.019	0.023	0.025	0.028
53	0.015	0.020	0.023	0.027	0.030	0.034
54	0.026	0.033	0.038	0.045	0.051	0.059
55	0.048	0.061	0.074	0.088	0.100	0.117
56	0.042	0.053	0.063	0.075	0.085	0.100
57	0.044	0.056	0.067	0.081	0.091	0.107
58	0.049	0.062	0.074	0.089	0.100	0.118
59	0.057	0.072	0.086	0.103	0.118	0.138
60	0.067	0.086	0.103	0.123	0.139	0.164
61	0.081	0.103	0.124	0.148	0.168	0.199
62	0.116	0.147	0.178	0.214	0.243	0.288
63	0.114	0.144	0.174	0.208	0.237	0.281
64	0.108	0.138	0.166	0.199	0.227	0.268
65	0.155	0.197	0.238	0.285	0.325	0.386
66	0.132	0.168	0.203	0.243	0.276	0.328
67	0.122	0.155	0.189	0.225	0.256	0.304
68	0.111	0.141	0.170	0.204	0.232	0.274
69	0.114	0.144	0.174	0.209	0.238	0.282
70	0.130	0.165	0.200	0.240	0.272	0.323

**Public Agency Miscellaneous 2.5% @ 55**

Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.004	0.009	0.019	0.029	0.049	0.094
51	0.004	0.009	0.019	0.029	0.049	0.094
52	0.004	0.009	0.020	0.030	0.050	0.095
53	0.008	0.014	0.025	0.036	0.058	0.104
54	0.024	0.034	0.050	0.066	0.091	0.142
55	0.066	0.088	0.115	0.142	0.179	0.241
56	0.042	0.057	0.078	0.098	0.128	0.184
57	0.041	0.057	0.077	0.097	0.128	0.183
58	0.045	0.061	0.083	0.104	0.136	0.192
59	0.055	0.074	0.098	0.123	0.157	0.216
60	0.066	0.088	0.115	0.142	0.179	0.241
61	0.072	0.095	0.124	0.153	0.191	0.255
62	0.099	0.130	0.166	0.202	0.248	0.319
63	0.092	0.121	0.155	0.189	0.233	0.302
64	0.091	0.119	0.153	0.187	0.231	0.299
65	0.122	0.160	0.202	0.245	0.297	0.374
66	0.138	0.179	0.226	0.272	0.329	0.411
67	0.114	0.149	0.189	0.229	0.279	0.354
68	0.100	0.131	0.168	0.204	0.250	0.322
69	0.114	0.149	0.189	0.229	0.279	0.354
70	0.127	0.165	0.209	0.253	0.306	0.385

**Service Retirement**

**Public Agency Miscellaneous 2.7% @ 55**

Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.004	0.009	0.014	0.035	0.055	0.095
51	0.002	0.006	0.011	0.030	0.050	0.090
52	0.006	0.012	0.017	0.038	0.059	0.099
53	0.010	0.017	0.024	0.046	0.068	0.110
54	0.032	0.044	0.057	0.085	0.113	0.160
55	0.076	0.101	0.125	0.165	0.205	0.265
56	0.055	0.074	0.093	0.127	0.160	0.214
57	0.050	0.068	0.086	0.118	0.151	0.204
58	0.055	0.074	0.093	0.127	0.161	0.215
59	0.061	0.082	0.102	0.138	0.174	0.229
60	0.069	0.093	0.116	0.154	0.192	0.250
61	0.086	0.113	0.141	0.183	0.225	0.288
62	0.105	0.138	0.171	0.218	0.266	0.334
63	0.103	0.135	0.167	0.215	0.262	0.329
64	0.109	0.143	0.177	0.226	0.275	0.344
65	0.134	0.174	0.215	0.270	0.326	0.401
66	0.147	0.191	0.235	0.294	0.354	0.433
67	0.121	0.158	0.196	0.248	0.300	0.372
68	0.113	0.147	0.182	0.232	0.282	0.352
69	0.117	0.153	0.189	0.240	0.291	0.362
70	0.141	0.183	0.226	0.283	0.341	0.418

**Public Agency Miscellaneous 3% @ 60**

Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.012	0.018	0.024	0.039	0.040	0.091
51	0.009	0.014	0.019	0.034	0.034	0.084
52	0.014	0.020	0.026	0.043	0.044	0.096
53	0.016	0.023	0.031	0.048	0.050	0.102
54	0.026	0.036	0.045	0.065	0.070	0.125
55	0.043	0.057	0.072	0.096	0.105	0.165
56	0.042	0.056	0.070	0.094	0.103	0.162
57	0.049	0.065	0.082	0.108	0.119	0.180
58	0.057	0.076	0.094	0.122	0.136	0.199
59	0.076	0.100	0.123	0.157	0.175	0.244
60	0.114	0.148	0.182	0.226	0.255	0.334
61	0.095	0.123	0.152	0.190	0.214	0.288
62	0.133	0.172	0.211	0.260	0.294	0.378
63	0.129	0.166	0.204	0.252	0.285	0.368
64	0.143	0.185	0.226	0.278	0.315	0.401
65	0.202	0.260	0.318	0.386	0.439	0.542
66	0.177	0.228	0.279	0.340	0.386	0.482
67	0.151	0.194	0.238	0.292	0.331	0.420
68	0.139	0.179	0.220	0.270	0.306	0.391
69	0.190	0.245	0.299	0.364	0.414	0.513
70	0.140	0.182	0.223	0.274	0.310	0.396

**Service Retirement**

<b>Public Agency Miscellaneous 2% @ 62</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.000	0.000	0.000	0.000	0.000	0.000
51	0.000	0.000	0.000	0.000	0.000	0.000
52	0.010	0.013	0.016	0.019	0.022	0.024
53	0.013	0.017	0.020	0.024	0.027	0.031
54	0.021	0.027	0.033	0.039	0.045	0.050
55	0.044	0.056	0.068	0.080	0.092	0.104
56	0.030	0.039	0.047	0.055	0.063	0.072
57	0.036	0.046	0.056	0.066	0.076	0.086
58	0.046	0.059	0.072	0.085	0.097	0.110
59	0.058	0.074	0.089	0.105	0.121	0.137
60	0.062	0.078	0.095	0.112	0.129	0.146
61	0.062	0.079	0.096	0.113	0.129	0.146
62	0.097	0.123	0.150	0.176	0.202	0.229
63	0.089	0.113	0.137	0.162	0.186	0.210
64	0.094	0.120	0.145	0.171	0.197	0.222
65	0.129	0.164	0.199	0.234	0.269	0.304
66	0.105	0.133	0.162	0.190	0.219	0.247
67	0.105	0.133	0.162	0.190	0.219	0.247
68	0.105	0.133	0.162	0.190	0.219	0.247
69	0.105	0.133	0.162	0.190	0.219	0.247
70	0.125	0.160	0.194	0.228	0.262	0.296

**Service Retirement**

<b>Public Agency Fire ½ @ 55 and 2% @ 55</b>			
Age	Rate	Age	Rate
50	0.0159	56	0.1108
51	0.0000	57	0.0000
52	0.0344	58	0.0950
53	0.0199	59	0.0441
54	0.0413	60	1.00000
55	0.0751		

<b>Public Agency Police ½ @ 55 and 2% @ 55</b>			
Age	Rate	Age	Rate
50	0.0255	56	0.0692
51	0.0000	57	0.0511
52	0.0164	58	0.0724
53	0.0272	59	0.0704
54	0.0095	60	1.0000
55	0.1667		

**Service Retirement**

<b>Public Agency Police 2% @ 50</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.005	0.005	0.005	0.005	0.017	0.089
51	0.005	0.005	0.005	0.005	0.017	0.087
52	0.018	0.018	0.018	0.018	0.042	0.132
53	0.044	0.044	0.044	0.044	0.090	0.217
54	0.065	0.065	0.065	0.065	0.126	0.283
55	0.086	0.086	0.086	0.086	0.166	0.354
56	0.067	0.067	0.067	0.067	0.130	0.289
57	0.066	0.066	0.066	0.066	0.129	0.288
58	0.066	0.066	0.066	0.066	0.129	0.288
59	0.139	0.139	0.139	0.139	0.176	0.312
60	0.123	0.123	0.123	0.123	0.153	0.278
61	0.110	0.110	0.110	0.110	0.138	0.256
62	0.130	0.130	0.130	0.130	0.162	0.291
63	0.130	0.130	0.130	0.130	0.162	0.291
64	0.130	0.130	0.130	0.130	0.162	0.291
65	1.000	1.000	1.000	1.000	1.000	1.000

- These rates also apply to Local Prosecutors, Local Sheriff, School Police, and Other Safety.

**Service Retirement**

<b>Public Agency Fire 2% @ 50</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.009	0.009	0.009	0.009	0.013	0.020
51	0.013	0.013	0.013	0.013	0.020	0.029
52	0.018	0.018	0.018	0.018	0.028	0.042
53	0.052	0.052	0.052	0.052	0.079	0.119
54	0.067	0.067	0.067	0.067	0.103	0.154
55	0.089	0.089	0.089	0.089	0.136	0.204
56	0.083	0.083	0.083	0.083	0.127	0.190
57	0.082	0.082	0.082	0.082	0.126	0.189
58	0.088	0.088	0.088	0.088	0.136	0.204
59	0.074	0.074	0.074	0.074	0.113	0.170
60	0.100	0.100	0.100	0.100	0.154	0.230
61	0.072	0.072	0.072	0.072	0.110	0.165
62	0.099	0.099	0.099	0.099	0.152	0.228
63	0.114	0.114	0.114	0.114	0.175	0.262
64	0.114	0.114	0.114	0.114	0.175	0.262
65	1.000	1.000	1.000	1.000	1.000	1.000

**Service Retirement**

<b>Public Agency Police 3% @ 55</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.004	0.004	0.004	0.004	0.015	0.086
51	0.014	0.014	0.014	0.014	0.034	0.114
52	0.026	0.026	0.026	0.026	0.060	0.154
53	0.038	0.038	0.038	0.038	0.083	0.188
54	0.071	0.071	0.071	0.071	0.151	0.292
55	0.061	0.061	0.061	0.061	0.131	0.261
56	0.072	0.072	0.072	0.072	0.153	0.295
57	0.065	0.065	0.065	0.065	0.140	0.273
58	0.066	0.066	0.066	0.066	0.142	0.277
59	0.118	0.118	0.118	0.118	0.247	0.437
60	0.065	0.065	0.065	0.065	0.138	0.272
61	0.084	0.084	0.084	0.084	0.178	0.332
62	0.108	0.108	0.108	0.108	0.226	0.405
63	0.084	0.084	0.084	0.084	0.178	0.332
64	0.084	0.084	0.084	0.084	0.178	0.332
65	1.000	1.000	1.000	1.000	1.000	1.000

- These rates also apply to Local Prosecutors, Local Sheriff, School Police, and Other Safety.

**Service Retirement**

<b>Public Agency Fire 3% @ 55</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.001	0.001	0.001	0.006	0.016	0.069
51	0.002	0.002	0.002	0.006	0.018	0.071
52	0.012	0.012	0.012	0.021	0.040	0.098
53	0.032	0.032	0.032	0.049	0.085	0.149
54	0.057	0.057	0.057	0.087	0.144	0.217
55	0.073	0.073	0.073	0.109	0.179	0.259
56	0.064	0.064	0.064	0.097	0.161	0.238
57	0.063	0.063	0.063	0.095	0.157	0.233
58	0.065	0.065	0.065	0.099	0.163	0.241
59	0.088	0.088	0.088	0.131	0.213	0.299
60	0.105	0.105	0.105	0.155	0.251	0.344
61	0.118	0.118	0.118	0.175	0.282	0.380
62	0.087	0.087	0.087	0.128	0.210	0.295
63	0.067	0.067	0.067	0.100	0.165	0.243
64	0.067	0.067	0.067	0.100	0.165	0.243
65	1.000	1.000	1.000	1.000	1.000	1.000



**Service Retirement**

<b>Public Agency Police 3% @ 50</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.050	0.050	0.050	0.099	0.240	0.314
51	0.034	0.034	0.034	0.072	0.198	0.260
52	0.033	0.033	0.033	0.071	0.198	0.259
53	0.039	0.039	0.039	0.080	0.212	0.277
54	0.045	0.045	0.045	0.092	0.229	0.300
55	0.052	0.052	0.052	0.105	0.248	0.323
56	0.042	0.042	0.042	0.087	0.221	0.289
57	0.043	0.043	0.043	0.088	0.223	0.292
58	0.054	0.054	0.054	0.109	0.255	0.333
59	0.054	0.054	0.054	0.108	0.253	0.330
60	0.060	0.060	0.060	0.121	0.272	0.355
61	0.048	0.048	0.048	0.098	0.238	0.311
62	0.061	0.061	0.061	0.122	0.274	0.357
63	0.057	0.057	0.057	0.115	0.263	0.343
64	0.069	0.069	0.069	0.137	0.296	0.385
65	1.000	1.000	1.000	1.000	1.000	1.000

- These rates also apply to Local Prosecutors, Local Sheriff, School Police, and Other Safety.

**Service Retirement**

<b>Public Agency Fire 3% @ 50</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.020	0.020	0.020	0.040	0.130	0.192
51	0.008	0.008	0.008	0.023	0.107	0.164
52	0.023	0.023	0.023	0.043	0.136	0.198
53	0.023	0.023	0.023	0.043	0.135	0.198
54	0.027	0.027	0.027	0.048	0.143	0.207
55	0.043	0.043	0.043	0.070	0.174	0.244
56	0.053	0.053	0.053	0.085	0.196	0.269
57	0.054	0.054	0.054	0.086	0.197	0.271
58	0.052	0.052	0.052	0.084	0.193	0.268
59	0.075	0.075	0.075	0.116	0.239	0.321
60	0.065	0.065	0.065	0.102	0.219	0.298
61	0.076	0.076	0.076	0.117	0.241	0.324
62	0.068	0.068	0.068	0.106	0.224	0.304
63	0.027	0.027	0.027	0.049	0.143	0.208
64	0.094	0.094	0.094	0.143	0.277	0.366
65	1.000	1.000	1.000	1.000	1.000	1.000

**Service Retirement**

<b>Public Agency Police 2% @ 57</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.011	0.011	0.011	0.011	0.020	0.036
51	0.009	0.009	0.009	0.009	0.016	0.028
52	0.018	0.018	0.018	0.018	0.034	0.060
53	0.037	0.037	0.037	0.037	0.067	0.119
54	0.049	0.049	0.049	0.049	0.089	0.159
55	0.063	0.063	0.063	0.063	0.115	0.205
56	0.045	0.045	0.045	0.045	0.082	0.146
57	0.064	0.064	0.064	0.064	0.117	0.209
58	0.047	0.047	0.047	0.047	0.086	0.154
59	0.105	0.105	0.105	0.105	0.130	0.191
60	0.105	0.105	0.105	0.105	0.129	0.188
61	0.105	0.105	0.105	0.105	0.129	0.188
62	0.105	0.105	0.105	0.105	0.129	0.188
63	0.105	0.105	0.105	0.105	0.129	0.188
64	0.105	0.105	0.105	0.105	0.129	0.188
65	1.000	1.000	1.000	1.000	1.000	1.000

- These rates also apply to Local Prosecutors, Local Sheriff, School Police, and Other Safety.

**Service Retirement**

<b>Public Agency Fire 2% @ 57</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.005	0.005	0.005	0.005	0.008	0.012
51	0.006	0.006	0.006	0.006	0.009	0.013
52	0.012	0.012	0.012	0.012	0.019	0.028
53	0.033	0.033	0.033	0.033	0.050	0.075
54	0.045	0.045	0.045	0.045	0.069	0.103
55	0.061	0.061	0.061	0.061	0.094	0.140
56	0.055	0.055	0.055	0.055	0.084	0.126
57	0.081	0.081	0.081	0.081	0.125	0.187
58	0.059	0.059	0.059	0.059	0.091	0.137
59	0.055	0.055	0.055	0.055	0.084	0.126
60	0.085	0.085	0.085	0.085	0.131	0.196
61	0.085	0.085	0.085	0.085	0.131	0.196
62	0.085	0.085	0.085	0.085	0.131	0.196
63	0.085	0.085	0.085	0.085	0.131	0.196
64	0.085	0.085	0.085	0.085	0.131	0.196
65	1.000	1.000	1.000	1.000	1.000	1.000

**Service Retirement**

<b>Public Agency Police 2.5% @ 57</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.014	0.014	0.014	0.014	0.025	0.045
51	0.012	0.012	0.012	0.012	0.021	0.038
52	0.025	0.025	0.025	0.025	0.046	0.081
53	0.047	0.047	0.047	0.047	0.086	0.154
54	0.063	0.063	0.063	0.063	0.115	0.205
55	0.076	0.076	0.076	0.076	0.140	0.249
56	0.054	0.054	0.054	0.054	0.099	0.177
57	0.071	0.071	0.071	0.071	0.130	0.232
58	0.057	0.057	0.057	0.057	0.103	0.184
59	0.126	0.126	0.126	0.126	0.156	0.229
60	0.126	0.126	0.126	0.126	0.155	0.226
61	0.126	0.126	0.126	0.126	0.155	0.226
62	0.126	0.126	0.126	0.126	0.155	0.226
63	0.126	0.126	0.126	0.126	0.155	0.226
64	0.126	0.126	0.126	0.126	0.155	0.226
65	1.000	1.000	1.000	1.000	1.000	1.000

- These rates also apply to Local Prosecutors, Local Sheriff, School Police, and Other Safety.

**Service Retirement**

<b>Public Agency Fire 2.5% @ 57</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.007	0.007	0.007	0.007	0.010	0.015
51	0.008	0.008	0.008	0.008	0.012	0.018
52	0.016	0.016	0.016	0.016	0.025	0.038
53	0.042	0.042	0.042	0.042	0.064	0.096
54	0.057	0.057	0.057	0.057	0.088	0.132
55	0.074	0.074	0.074	0.074	0.114	0.170
56	0.066	0.066	0.066	0.066	0.102	0.153
57	0.090	0.090	0.090	0.090	0.139	0.208
58	0.071	0.071	0.071	0.071	0.110	0.164
59	0.066	0.066	0.066	0.066	0.101	0.151
60	0.102	0.102	0.102	0.102	0.157	0.235
61	0.102	0.102	0.102	0.102	0.157	0.236
62	0.102	0.102	0.102	0.102	0.157	0.236
63	0.102	0.102	0.102	0.102	0.157	0.236
64	0.102	0.102	0.102	0.102	0.157	0.236
65	1.000	1.000	1.000	1.000	1.000	1.000

**Service Retirement**

<b>Public Agency Police 2.7% @ 57</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.0138	0.0138	0.0138	0.0138	0.0253	0.0451
51	0.0123	0.0123	0.0123	0.0123	0.0226	0.0402
52	0.0249	0.0249	0.0249	0.0249	0.0456	0.0812
53	0.0497	0.0497	0.0497	0.0497	0.0909	0.1621
54	0.0662	0.0662	0.0662	0.0662	0.1211	0.2160
55	0.0854	0.0854	0.0854	0.0854	0.1563	0.2785
56	0.0606	0.0606	0.0606	0.0606	0.1108	0.1975
57	0.0711	0.0711	0.0711	0.0711	0.1300	0.2318
58	0.0628	0.0628	0.0628	0.0628	0.1149	0.2049
59	0.1396	0.1396	0.1396	0.1396	0.1735	0.2544
60	0.1396	0.1396	0.1396	0.1396	0.1719	0.2506
61	0.1396	0.1396	0.1396	0.1396	0.1719	0.2506
62	0.1396	0.1396	0.1396	0.1396	0.1719	0.2506
63	0.1396	0.1396	0.1396	0.1396	0.1719	0.2506
64	0.1396	0.1396	0.1396	0.1396	0.1719	0.2506
65	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

- These rates also apply to Local Prosecutors, Local Sheriff, School Police, and Other Safety.

**Service Retirement**

<b>Public Agency Fire 2.7% @ 57</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.0065	0.0065	0.0065	0.0065	0.0101	0.0151
51	0.0081	0.0081	0.0081	0.0081	0.0125	0.0187
52	0.0164	0.0164	0.0164	0.0164	0.0254	0.0380
53	0.0442	0.0442	0.0442	0.0442	0.0680	0.1018
54	0.0606	0.0606	0.0606	0.0606	0.0934	0.1397
55	0.0825	0.0825	0.0825	0.0825	0.1269	0.1900
56	0.0740	0.0740	0.0740	0.0740	0.1140	0.1706
57	0.0901	0.0901	0.0901	0.0901	0.1387	0.2077
58	0.0790	0.0790	0.0790	0.0790	0.1217	0.1821
59	0.0729	0.0729	0.0729	0.0729	0.1123	0.1681
60	0.1135	0.1135	0.1135	0.1135	0.1747	0.2615
61	0.1136	0.1136	0.1136	0.1136	0.1749	0.2618
62	0.1136	0.1136	0.1136	0.1136	0.1749	0.2618
63	0.1136	0.1136	0.1136	0.1136	0.1749	0.2618
64	0.1136	0.1136	0.1136	0.1136	0.1749	0.2618
65	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

## Service Retirement

Schools 2% @ 55						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.005	0.009	0.013	0.015	0.016	0.018
51	0.005	0.010	0.014	0.017	0.019	0.021
52	0.006	0.012	0.017	0.020	0.022	0.025
53	0.007	0.014	0.019	0.023	0.026	0.029
54	0.012	0.024	0.033	0.039	0.044	0.049
55	0.024	0.048	0.067	0.079	0.088	0.099
56	0.020	0.039	0.055	0.065	0.072	0.081
57	0.021	0.042	0.059	0.070	0.078	0.087
58	0.025	0.050	0.070	0.083	0.092	0.103
59	0.029	0.057	0.080	0.095	0.105	0.118
60	0.037	0.073	0.102	0.121	0.134	0.150
61	0.046	0.090	0.126	0.149	0.166	0.186
62	0.076	0.151	0.212	0.250	0.278	0.311
63	0.069	0.136	0.191	0.225	0.251	0.281
64	0.067	0.133	0.185	0.219	0.244	0.273
65	0.091	0.180	0.251	0.297	0.331	0.370
66	0.072	0.143	0.200	0.237	0.264	0.295
67	0.067	0.132	0.185	0.218	0.243	0.272
68	0.060	0.118	0.165	0.195	0.217	0.243
69	0.067	0.133	0.187	0.220	0.246	0.275
70	0.066	0.131	0.183	0.216	0.241	0.270

## Miscellaneous

### Internal Revenue Code Section 415

The limitations on benefits imposed by Internal Revenue Code Section 415 are taken into account in this valuation. Each year the impact of any changes in this limitation since the prior valuation is included and amortized as part of the actuarial gain or loss base. This results in lower contributions for those employers contributing to the Replacement Benefit Fund and protects CalPERS from prefunding expected benefits in excess of limits imposed by federal tax law.

### Internal Revenue Code Section 401(a)(17)

The limitations on compensation imposed by Internal Revenue Code Section 401(a)(17) are taken into account in this valuation. Each year, the impact of any changes in the compensation limitation since the prior valuation is included and amortized as part of the actuarial gain or loss base. The compensation limit for classic members for the 2015 calendar year is \$265,000.

## **APPENDIX B**

### **PRINCIPAL PLAN PROVISIONS**

The following is a description of the principal plan provisions used in calculating costs and liabilities. We have indicated whether a plan provision is standard or optional. Standard benefits are applicable to all members while optional benefits vary among employers. Optional benefits that apply to a single period of time, such as Golden Handshakes, have not been included. Many of the statements in this summary are general in nature, and are intended to provide an easily understood summary of the Public Employees' Retirement Law. The law itself governs in all situations.

## Service Retirement

### Eligibility

A classic CalPERS member or PEPRA Safety member becomes eligible for Service Retirement upon attainment of age 50 with at least 5 years of credited service (total service across all CalPERS employers, and with certain other retirement systems with which CalPERS has reciprocity agreements). For employees hired into a plan with the 1.5 percent at 65 formula, eligibility for service retirement is age 55 with at least 5 years of service. PEPRA miscellaneous members become eligible for service retirement upon attainment of age 52 with at least 5 years of service.

### Benefit

The service retirement benefit is a monthly allowance equal to the product of the *benefit factor*, *years of service*, and *final compensation*.

- The *benefit factor* depends on the benefit formula specified in your agency's contract. The table below shows the factors for each of the available formulas. Factors vary by the member's age at retirement. Listed are the factors for retirement at whole year ages:

### Miscellaneous Plan Formulas

Retirement Age	1.5% at 65	2% at 60	2% at 55	2.5% at 55	2.7% at 55	3% at 60	PEPRA 2% at 62
50	0.5000%	1.092%	1.426%	2.000%	2.000%	2.000%	N/A
51	0.5667%	1.156%	1.522%	2.100%	2.140%	2.100%	N/A
52	0.6334%	1.224%	1.628%	2.200%	2.280%	2.200%	1.000%
53	0.7000%	1.296%	1.742%	2.300%	2.420%	2.300%	1.100%
54	0.7667%	1.376%	1.866%	2.400%	2.560%	2.400%	1.200%
55	0.8334%	1.460%	2.000%	2.500%	2.700%	2.500%	1.300%
56	0.9000%	1.552%	2.052%	2.500%	2.700%	2.600%	1.400%
57	0.9667%	1.650%	2.104%	2.500%	2.700%	2.700%	1.500%
58	1.0334%	1.758%	2.156%	2.500%	2.700%	2.800%	1.600%
59	1.1000%	1.874%	2.210%	2.500%	2.700%	2.900%	1.700%
60	1.1667%	2.000%	2.262%	2.500%	2.700%	3.000%	1.800%
61	1.2334%	2.134%	2.314%	2.500%	2.700%	3.000%	1.900%
62	1.3000%	2.272%	2.366%	2.500%	2.700%	3.000%	2.000%
63	1.3667%	2.418%	2.418%	2.500%	2.700%	3.000%	2.100%
64	1.4334%	2.418%	2.418%	2.500%	2.700%	3.000%	2.200%
65	1.5000%	2.418%	2.418%	2.500%	2.700%	3.000%	2.300%
66	1.5000%	2.418%	2.418%	2.500%	2.700%	3.000%	2.400%
67 & up	1.5000%	2.418%	2.418%	2.500%	2.700%	3.000%	2.500%

**Safety Plan Formulas**

Retirement Age	½ at 55 *	2% at 55	2% at 50	3% at 55	3% at 50
50	1.783%	1.426%	2.000%	2.400%	3.000%
51	1.903%	1.522%	2.140%	2.520%	3.000%
52	2.035%	1.628%	2.280%	2.640%	3.000%
53	2.178%	1.742%	2.420%	2.760%	3.000%
54	2.333%	1.866%	2.560%	2.880%	3.000%
55 & Up	2.500%	2.000%	2.700%	3.000%	3.000%

\* For this formula, the benefit factor also varies by entry age. The factors shown are for members with an entry age of 35 or greater. If entry age is less than 35, then the age 55 benefit factor is 50 percent divided by the difference between age 55 and entry age. The benefit factor for ages prior to age 55 is the same proportion of the age 55 benefit factor as in the above table.

**PEPRA Safety Plan Formulas**

Retirement Age	2% at 57	2.5% at 57	2.7% at 57
50	1.426%	2.000%	2.000%
51	1.508%	2.071%	2.100%
52	1.590%	2.143%	2.200%
53	1.672%	2.214%	2.300%
54	1.754%	2.286%	2.400%
55	1.836%	2.357%	2.500%
56	1.918%	2.429%	2.600%
57 & Up	2.000%	2.500%	2.700%

- The *years of service* is the amount credited by CalPERS to a member while he or she is employed in this group (or for other periods that are recognized under the employer's contract with CalPERS). For a member who has earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance. An agency may contract for an optional benefit where any unused sick leave accumulated at the time of retirement will be converted to credited service at a rate of 0.004 years of service for each day of sick leave.
- The *final compensation* is the monthly average of the member's highest 36 or 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this compensation). The standard benefit is 36 months. Employers had the option of providing a final compensation equal to the highest 12 consecutive months for classic plans only. Final compensation must be defined by the highest 36 consecutive months' pay under the 1.5% at 65 formula. PEPRA members have a cap on the annual salary that can be used to calculate final compensation for all new members based on the Social Security contribution and benefit base. For employees that participate in Social Security this cap is \$117,020 for 2015 and for those employees that do not participate in Social Security the cap for 2015 is \$140,424. Adjustments to the caps are permitted annually based on changes to the CPI for all urban consumers.
- Employees must be covered by Social Security with the 1.5% at 65 formula. Social Security is optional for all other benefit formulas. For employees covered by Social Security, the modified formula is the standard benefit. Under this type of formula, the final compensation is offset by \$133.33 (or by one third if the final compensation is less than \$400). Employers may contract for the full benefit with Social Security that will eliminate the offset applicable to the final compensation. For employees not covered by Social Security, the full benefit is paid with



no offsets. Auxiliary organizations of the CSUC system may elect reduced contribution rates, in which case the offset is \$317 if members are not covered by Social Security or \$513 if members are covered by Social Security.

- The miscellaneous and PEPRSA safety service retirement benefit is not capped. The classic service retirement benefit is capped at 90 percent of final compensation.

## Vested Deferred Retirement

### Eligibility for Deferred Status

A CalPERS member becomes eligible for a deferred vested retirement benefit when he or she leaves employment, keeps his or her contribution account balance on deposit with CalPERS, **and** has earned at least 5 years of credited service (total service across all CalPERS employers, and with certain other retirement systems with which CalPERS has reciprocity agreements).

### Eligibility to Start Receiving Benefits

The CalPERS classic members and PEPRSA safety members become eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for deferred status and upon attainment of age 50 (55 for employees hired into a 1.5% @ 65 plan). PEPRSA miscellaneous members become eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for deferred status and upon attainment of age 52.

### Benefit

The vested deferred retirement benefit is the same as the service retirement benefit, where the benefit factor is based on the member's age at allowance commencement. For members who have earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance.

## Non-Industrial (Non-Job Related) Disability Retirement

### Eligibility

A CalPERS member is eligible for Non-Industrial Disability Retirement if he or she becomes *disabled* and has at least 5 years of credited service (total service across all CalPERS employers, and with certain other retirement systems with which CalPERS has reciprocity agreements). There is no special age requirement. *Disabled* means the member is unable to perform his or her job because of an illness or injury, which is expected to be permanent or to last indefinitely. The illness or injury does not have to be job related. A CalPERS member must be actively employed by any CalPERS employer at the time of disability in order to be eligible for this benefit.

### Standard Benefit

The standard Non-Industrial Disability Retirement benefit is a monthly allowance equal to 1.8 percent of final compensation, multiplied by *service*, which is determined as follows:

- *Service* is CalPERS credited service, for members with less than 10 years of service or greater than 18.518 years of service; or
- *Service* is CalPERS credited service plus the additional number of years that the member would have worked until age 60, for members with at least 10 years but not more than 18.518 years of service. The maximum benefit in this case is 33 1/3 percent of final compensation.

### **Improved Benefit**

Employers have the option of providing the improved Non-Industrial Disability Retirement benefit. This benefit provides a monthly allowance equal to 30 percent of final compensation for the first 5 years of service, plus 1 percent for each additional year of service to a maximum of 50 percent of final compensation.

Members who are eligible for a larger service retirement benefit may choose to receive that benefit in lieu of a disability benefit. Members eligible to retire, and who have attained the normal retirement age determined by their service retirement benefit formula, will receive the same dollar amount for disability retirement as that payable for service retirement. For members who have earned service with multiple CalPERS employers, the benefit attributed to each employer is the total disability allowance multiplied by the ratio of service with a particular employer to the total CalPERS service.

## **Industrial (Job Related) Disability Retirement**

All safety members have this benefit. For miscellaneous members, employers have the option of providing this benefit. An employer may choose to provide the increased benefit option or the improved benefit option.

### **Eligibility**

An employee is eligible for Industrial Disability Retirement if he or she becomes disabled while working, where disabled means the member is unable to perform the duties of the job because of a work-related illness or injury, which is expected to be permanent or to last indefinitely. A CalPERS member who has left active employment within this group is not eligible for this benefit, except to the extent described below.

### **Standard Benefit**

The standard Industrial Disability Retirement benefit is a monthly allowance equal to 50 percent of final compensation.

### **Increased Benefit (75 percent of Final Compensation)**

The increased Industrial Disability Retirement benefit is a monthly allowance equal to 75 percent final compensation for total disability.

### **Improved Benefit (50 percent to 90 percent of Final Compensation)**

The improved Industrial Disability Retirement benefit is a monthly allowance equal to the Workman's Compensation Appeals Board permanent disability rate percentage (if 50 percent or greater, with a maximum of 90 percent) times the final compensation.

For a CalPERS member not actively employed in this group who became disabled while employed by some other CalPERS employer, the benefit is a return of accumulated member contributions with respect to employment in this group. With the standard or increased benefit, a member may also choose to receive the annuitization of the accumulated member contributions.

If a member is eligible for service retirement and if the service retirement benefit is more than the industrial disability retirement benefit, the member may choose to receive the larger benefit.

## **Post-Retirement Death Benefit**

### **Standard Lump Sum Payment**

Upon the death of a retiree, a one-time lump sum payment of \$500 will be made to the retiree's designated survivor(s), or to the retiree's estate.

### **Improved Lump Sum Payment**

Employers have the option of providing an improved lump sum death benefit of \$600, \$2,000, \$3,000, \$4,000 or \$5,000.

## **Form of Payment for Retirement Allowance**

### **Standard Form of Payment**

Generally, the retirement allowance is paid to the retiree in the form of an annuity for as long as he or she is alive. The retiree may choose to provide for a portion of his or her allowance to be paid to any designated beneficiary after the retiree's death. CalPERS provides for a variety of such benefit options, which the retiree pays for by taking a reduction in his or her retirement allowance. Such reduction takes into account the amount to be provided to the beneficiary and the probable duration of payments (based on the ages of the member and beneficiary) made subsequent to the member's death.

### **Improved Form of Payment (Post-Retirement Survivor Allowance)**

Employers have the option to contract for the post-retirement survivor allowance.

For retirement allowances with respect to service subject to the modified formula, 25 percent of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, without a reduction in the retiree's allowance. For retirement allowances with respect to service subject to the full or supplemental formula, 50 percent of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, without a reduction in the retiree's allowance. This additional benefit is referred to as post-retirement survivor allowance (PRSA) or simply as survivor continuance.

In other words, 25 percent or 50 percent of the allowance, the continuance portion, is paid to the retiree for as long as he or she is alive, and that same amount is continued to the retiree's spouse (or if no eligible spouse, to unmarried child(ren) until they attain age 18; or, if no eligible child(ren), to a qualifying dependent parent) for the rest of his or her lifetime. This benefit will not be discontinued in the event the spouse remarries.

The remaining 75 percent or 50 percent of the retirement allowance, which may be referred to as the option portion of the benefit, is paid to the retiree as an annuity for as long as he or she is alive. Or, the retiree may choose to provide for some of this option portion to be paid to any designated beneficiary after the retiree's death. Benefit options applicable to the option portion are the same as those offered with the standard form. The reduction is calculated in the same manner but is applied only to the option portion.

## Pre-Retirement Death Benefits

### Basic Death Benefit

This is a standard benefit.

#### Eligibility

An employee's beneficiary (or estate) may receive the basic death benefit if the member dies while actively employed. A CalPERS member must be actively employed with the CalPERS employer providing this benefit to be eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit may choose to receive that death benefit instead of this basic death benefit.

#### Benefit

The basic death benefit is a lump sum in the amount of the member's accumulated contributions, where interest is currently credited at 7.5 percent per year, plus a lump sum in the amount of one month's salary for each completed year of current service, up to a maximum of six months' salary. For purposes of this benefit, one month's salary is defined as the member's average monthly full-time rate of compensation during the 12 months preceding death.

### 1957 Survivor Benefit

This is a standard benefit.

#### Eligibility

An employee's *eligible survivor(s)* may receive the 1957 Survivor benefit if the member dies while actively employed, has attained at least age 50 for classic and safety PEPRA members and age 52 for miscellaneous PEPRA members, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other retirement systems with which CalPERS has reciprocity agreements). A CalPERS member must be actively employed with the CalPERS employer providing this benefit to be eligible for this benefit. An eligible survivor means the surviving spouse to whom the member was married at least one year before death or, if there is no eligible spouse, to the member's unmarried child(ren) under age 18. A member's survivor who is eligible for any other pre-retirement death benefit may choose to receive that death benefit instead of this 1957 Survivor benefit.

#### Benefit

The 1957 Survivor benefit is a monthly allowance equal to one-half of the unmodified service retirement benefit that the member would have been entitled to receive if the member had retired on the date of his or her death. If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to dependent child(ren), the benefit will be discontinued upon death or attainment of age 18, unless the child(ren) is disabled. The total amount paid will be at least equal to the basic death benefit.

## Optional Settlement 2W Death Benefit

This is an optional benefit.

### Eligibility

An employee's *eligible survivor* may receive the Optional Settlement 2W Death benefit if the member dies while actively employed, has attained at least age 50 for classic and safety PEPRAs and age 52 for miscellaneous PEPRAs, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other retirement systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death. A member's survivor who is eligible for any other pre-retirement death benefit may choose to receive that death benefit instead of this Optional Settlement 2W Death benefit.

### Benefit

The Optional Settlement 2W Death benefit is a monthly allowance equal to the service retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2W. (A retiree who elects Optional Settlement 2W receives an allowance that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) The allowance is payable as long as the surviving spouse lives, at which time it is continued to any unmarried child(ren) under age 18, if applicable. The total amount paid will be at least equal to the basic death benefit.

## Special Death Benefit

This is a standard benefit for safety members. An employer may elect to provide this benefit for miscellaneous members.

### Eligibility

An employee's *eligible survivor(s)* may receive the special death benefit if the member dies while actively employed and the death is job-related. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married prior to the onset of the injury or illness that resulted in death. If there is no eligible spouse, an eligible survivor means the member's unmarried child(ren) under age 22. An eligible survivor who chooses to receive this benefit will not receive any other death benefit.

### Benefit

The special death benefit is a monthly allowance equal to 50 percent of final compensation, and will be increased whenever the compensation paid to active employees is increased but ceasing to increase when the member would have attained age 50. The allowance is payable to the surviving spouse until death at which time the allowance is continued to any unmarried child(ren) under age 22. There is a guarantee that the total amount paid will at least equal the basic death benefit.

If the member's death is the result of an accident or injury caused by external violence or physical force incurred in the performance of the member's duty, and there are *eligible* surviving child(ren) (*eligible* means unmarried child(ren) under age 22) in addition to an eligible spouse, then an **additional monthly allowance** is paid equal to the following:

- |                                   |                                    |
|-----------------------------------|------------------------------------|
| • if 1 eligible child:            | 12.5 percent of final compensation |
| • if 2 eligible children:         | 20.0 percent of final compensation |
| • if 3 or more eligible children: | 25.0 percent of final compensation |

## Alternate Death Benefit for Local Fire Members

This is an optional benefit available only to local fire members.

### Eligibility

An employee's *eligible survivor(s)* may receive the alternate death benefit in lieu of the basic death benefit or the 1957 Survivor benefit if the member dies while actively employed and has at least 20 years of total CalPERS service. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married prior to the onset of the injury or illness that resulted in death. If there is no eligible spouse, an eligible survivor means the member's unmarried child(ren) under age 18.

### Benefit

The Alternate Death benefit is a monthly allowance equal to the service retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2W. (A retiree who elects Optional Settlement 2W receives an allowance that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) If the member has not yet attained age 50, the benefit is equal to that which would be payable if the member had retired at age 50, based on service credited at the time of death. The allowance is payable as long as the surviving spouse lives, at which time it is continued to any unmarried child(ren) under age 18, if applicable. The total amount paid will be at least equal to the basic death benefit.

## Cost-of-Living Adjustments (COLA)

### Standard Benefit

Retirement and survivor allowances are adjusted each year in May for cost of living, beginning the second calendar year after the year of retirement. The standard cost-of-living adjustment (COLA) is 2 percent. Annual adjustments are calculated by first determining the lesser of 1) 2 percent compounded from the end of the year of retirement or 2) actual rate of inflation. The resulting increase is divided by the total increase provided in prior years. For any particular year, the COLA adjustment may be less than 2 percent (when the rate of inflation is low), may be greater than the rate of inflation (when the rate of inflation is low after several years of high inflation) or may even be greater than 2 percent (when inflation is high after several years of low inflation).

### Improved Benefit

Employers have the option of providing a COLA of 3 percent, 4 percent, or 5 percent, determined in the same manner as described above for the standard 2 percent COLA. An improved COLA is not available with the 1.5% at 65 formula.

## Purchasing Power Protection Allowance (PPPA)

Retirement and survivor allowances are protected against inflation by PPPA. PPPA benefits are cost-of-living adjustments that are intended to maintain an individual's allowance at 80 percent of the initial allowance at retirement adjusted for inflation since retirement. The PPPA benefit will be coordinated with other cost-of-living adjustments provided under the plan.

## Employee Contributions

Each employee contributes toward his or her retirement based upon the retirement formula. The standard employee contribution is as described below.

- The percent contributed below the monthly compensation breakpoint is 0 percent.
- The monthly compensation breakpoint is \$0 for full and supplemental formula members and \$133.33 for employees covered by the modified formula.
- The percent contributed above the monthly compensation breakpoint depends upon the benefit formula, as shown in the table below.

<b><u>Benefit Formula</u></b>	<b><u>Percent Contributed above the Breakpoint</u></b>
Miscellaneous, 1.5% at 65	2%
Miscellaneous, 2% at 60	7%
Miscellaneous, 2% at 55	7%
Miscellaneous, 2.5% at 55	8%
Miscellaneous, 2.7% at 55	8%
Miscellaneous, 3% at 60	8%
Miscellaneous, 2% at 62	50% of the Total Normal Cost
Miscellaneous, 1.5% at 65	50% of the Total Normal Cost
Safety, 1/2 at 55	Varies by entry age
Safety, 2% at 55	7%
Safety, 2% at 50	9%
Safety, 3% at 55	9%
Safety, 3% at 50	9%
Safety, 2% at 57	50% of the Total Normal Cost
Safety, 2.5% at 57	50% of the Total Normal Cost
Safety, 2.7% at 57	50% of the Total Normal Cost

The employer may choose to "pick-up" these contributions for classic members (Employer Paid Member Contributions or EPMC). EPMC is prohibited for new PEPRA members.

An employer may also include Employee Cost Sharing in the contract, where employees agree to share the cost of the employer contribution. These contributions are paid in addition to the member contribution.

Auxiliary organizations of the CSUC system may elect reduced contribution rates, in which case the offset is \$317 and the contribution rate is 6 percent if members are not covered by Social Security. If members are covered by Social Security, the offset is \$513 and the contribution rate is 5 percent.

## Refund of Employee Contributions

If the member's service with the employer ends, and if the member does not satisfy the eligibility conditions for any of the retirement benefits above, the member may elect to receive a refund of his or her employee contributions, which are credited with 6 percent interest compounded annually.

## **1959 Survivor Benefit**

This is a pre-retirement death benefit available only to members not covered by Social Security. Any agency joining CalPERS subsequent to 1993 is required to provide this benefit if the members are not covered by Social Security. The benefit is optional for agencies joining CalPERS prior to 1994. Levels 1, 2 and 3 are now closed. Any new agency or any agency wishing to add this benefit or increase the current level may only choose the 4<sup>th</sup> or Indexed Level.

This benefit is not included in the results presented in this valuation. More information on this benefit is available on the CalPERS website at [www.calpers.ca.gov](http://www.calpers.ca.gov).



## **APPENDIX C**

### **PARTICIPANT DATA**

- **SUMMARY OF VALUATION DATA**
- **ACTIVE MEMBERS**
- **TRANSFERRED AND TERMINATED MEMBERS**
- **RETIRED MEMBERS AND BENEFICIARIES**

## Summary of Valuation Data

	June 30, 2014	June 30, 2015
<b>1. Active Members</b>		
a) Counts	236	241
b) Average Attained Age	39.99	40.16
c) Average Entry Age to Rate Plan	26.20	26.39
d) Average Years of Service	13.79	13.77
e) Average Annual Covered Pay	\$ 108,300	\$ 110,711
f) Annual Covered Payroll	25,558,857	26,681,311
g) Projected Annual Payroll for Contribution Year	27,928,853	29,155,389
h) Present Value of Future Payroll	231,991,846	238,585,584
<b>2. Transferred Members</b>		
a) Counts	71	67
b) Average Attained Age	44.51	45.22
c) Average Years of Service	5.36	5.23
d) Average Annual Covered Pay	\$ 101,868	\$ 106,284
<b>3. Terminated Members</b>		
a) Counts	33	29
b) Average Attained Age	42.31	42.95
c) Average Years of Service	3.70	1.85
d) Average Annual Covered Pay	\$ 73,305	\$ 63,117
<b>4. Retired Members and Beneficiaries</b>		
a) Counts	427	434
b) Average Attained Age	66.96	66.92
c) Average Annual Benefits	\$ 49,294	\$ 51,534
<b>5. Active to Retired Ratio [(1a) / (4a)]</b>	0.55	0.56

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

Average Annual Benefits represents benefit amounts payable by this plan only. Some members may have service with another agency and would therefore have a larger total benefit than would be included as part of the average shown here.

## Active Members

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

### Distribution of Active Members by Age and Service

Attained Age	Years of Service at Valuation Date						Total
	0-4	5-9	10-14	15-19	20-25	25+	
15-24	9	0	0	0	0	0	9
25-29	19	10	0	0	0	0	29
30-34	13	23	6	0	0	0	42
35-39	5	13	12	8	0	0	38
40-44	1	5	13	15	5	0	39
45-49	0	2	9	8	18	14	51
50-54	1	0	1	5	3	16	26
55-59	0	0	0	1	2	2	5
60-64	0	0	0	0	0	2	2
65 and over	0	0	0	0	0	0	0
<b>All Ages</b>	<b>48</b>	<b>53</b>	<b>41</b>	<b>37</b>	<b>28</b>	<b>34</b>	<b>241</b>

### Distribution of Average Annual Salaries by Age and Service

Attained Age	Years of Service at Valuation Date						Average
	0-4	5-9	10-14	15-19	20-25	25+	
15-24	\$76,534	\$0	\$0	\$0	\$0	\$0	\$76,534
25-29	77,229	101,616	0	0	0	0	85,639
30-34	78,131	104,567	114,252	0	0	0	97,768
35-39	72,393	105,625	116,841	117,743	0	0	107,346
40-44	96,719	98,995	110,602	115,781	139,109	0	114,404
45-49	0	100,119	117,921	116,827	131,190	132,483	125,732
50-54	186,220	0	99,174	136,207	122,101	140,448	137,689
55-59	0	0	0	101,066	127,497	138,154	126,474
60-64	0	0	0	0	0	118,610	118,610
65 and over	0	0	0	0	0	0	0
<b>All Ages</b>	<b>\$79,516</b>	<b>\$103,576</b>	<b>\$114,290</b>	<b>\$118,794</b>	<b>\$131,367</b>	<b>\$135,749</b>	<b>\$110,711</b>

## Transferred and Terminated Members

### Distribution of Transfers to Other CalPERS Plans by Age and Service

Attained Age	Years of Service at Valuation Date						Total	Average Salary
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	0	0	0	0	0	0	0	\$0
25-29	1	0	0	0	0	0	1	81,278
30-34	4	1	0	0	0	0	5	104,088
35-39	7	1	0	0	0	0	8	92,259
40-44	11	2	0	0	0	0	13	108,501
45-49	11	9	5	2	0	0	27	112,610
50-54	4	4	1	2	0	0	11	109,537
55-59	1	0	0	0	0	0	1	48,879
60-64	0	0	0	0	0	0	0	0
65 and over	1	0	0	0	0	0	1	76,497
<b>All Ages</b>	<b>40</b>	<b>17</b>	<b>6</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>67</b>	<b>106,284</b>

### Distribution of Terminated Participants with Funds on Deposit by Age and Service

Attained Age	Years of Service at Valuation Date						Total	Average Salary
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	0	0	0	0	0	0	0	\$0
25-29	1	0	0	0	0	0	1	57,871
30-34	5	1	0	0	0	0	6	65,721
35-39	6	0	0	0	0	0	6	64,765
40-44	3	3	0	0	0	0	6	74,650
45-49	4	1	0	0	0	0	5	62,448
50-54	2	0	0	0	0	0	2	43,641
55-59	0	0	0	0	0	0	0	0
60-64	3	0	0	0	0	0	3	47,400
65 and over	0	0	0	0	0	0	0	0
<b>All Ages</b>	<b>24</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>29</b>	<b>63,117</b>

## Retired Members and Beneficiaries

### Distribution of Retirees and Beneficiaries by Age and Retirement Type\*

Attained Age	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 30	0	0	0	0	0	0	0
30-34	0	0	3	0	0	0	3
35-39	0	0	1	0	0	0	1
40-44	0	0	2	0	0	0	2
45-49	0	0	9	0	0	0	9
50-54	35	0	15	0	3	0	53
55-59	33	1	24	0	2	1	61
60-64	30	0	29	0	0	7	66
65-69	32	1	28	0	1	4	66
70-74	26	1	24	0	0	11	62
75-79	19	0	23	0	0	9	51
80-84	12	0	15	0	0	11	38
85 and Over	8	0	4	0	0	10	22
<b>All Ages</b>	<b>195</b>	<b>3</b>	<b>177</b>	<b>0</b>	<b>6</b>	<b>53</b>	<b>434</b>

### Distribution of Average Annual Amounts for Retirees and Beneficiaries by Age and Retirement Type\*

Attained Age	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Average
Under 30	\$0	\$0	\$0	\$0	\$0	\$0	\$0
30-34	0	0	52,608	0	0	0	52,608
35-39	0	0	49,818	0	0	0	49,818
40-44	0	0	22,366	0	0	0	22,366
45-49	0	0	39,466	0	0	0	39,466
50-54	57,898	0	45,357	0	52,239	0	54,028
55-59	90,413	25,647	73,335	0	40,044	94,844	81,053
60-64	78,786	0	69,497	0	0	35,768	70,142
65-69	54,049	5,842	37,891	0	76,578	38,094	45,838
70-74	48,596	3,311	39,333	0	0	41,856	43,084
75-79	40,866	0	28,818	0	0	28,178	33,194
80-84	34,420	0	36,140	0	0	23,917	32,059
85 and Over	30,419	0	41,441	0	0	30,450	32,437
<b>All Ages</b>	<b>\$60,510</b>	<b>\$11,600</b>	<b>\$47,678</b>	<b>\$0</b>	<b>\$52,231</b>	<b>\$33,570</b>	<b>\$51,534</b>

## Retired Members and Beneficiaries (continued)

**Distribution of Retirees and Beneficiaries by Years Retired and Retirement Type\***

Years Retired	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 5 Yrs	60	0	28	0	1	22	111
5-9	34	0	20	0	0	10	64
10-14	44	0	29	0	1	11	85
15-19	15	2	12	0	0	4	33
20-24	19	0	21	0	1	2	43
25-29	11	0	20	0	0	2	33
30 and Over	12	1	47	0	3	2	65
<b>All Years</b>	<b>195</b>	<b>3</b>	<b>177</b>	<b>0</b>	<b>6</b>	<b>53</b>	<b>434</b>

**Distribution of Average Annual Amounts for Retirees and Beneficiaries by Years Retired and Retirement Type\***

Years Retired	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Average
Under 5 Yrs	\$73,203	\$0	\$87,655	\$0	\$6,468	\$36,820	\$69,036
5-9	72,810	0	69,975	0	0	32,639	65,647
10-14	58,964	0	53,325	0	2,011	38,905	53,774
15-19	57,411	14,479	33,298	0	0	29,426	42,649
20-24	38,336	0	37,889	0	63,842	25,075	38,094
25-29	39,543	0	32,277	0	0	10,958	33,407
30 and Over	26,076	5,842	25,489	0	80,354	12,527	27,428
<b>All Years</b>	<b>\$60,510</b>	<b>\$11,600</b>	<b>\$47,678</b>	<b>\$0</b>	<b>\$52,231</b>	<b>\$33,570</b>	<b>\$51,534</b>

\* Counts of members do not include alternate payees receiving benefits while the member is still working. Therefore, the total counts may not match information on page 25 of the report. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

## **APPENDIX D**

### **DEVELOPMENT OF PEPRA MEMBER CONTRIBUTION RATES**

## Development of PEPPRA Members Contribution Rates

The table below shows the determination of the Member contribution rates based on 50 percent of the Total Normal Cost for each respective plan on June 30, 2015.

Assembly Bill (AB) 340 created PEPPRA that implemented new benefit formulas and a final compensation period as well as new contribution requirements for new employees. In accordance with Section Code 7522.30(b), "new members ... shall have an initial contribution rate of at least 50 percent of the normal cost rate." The normal cost for the plan is dependent on the benefit levels, actuarial assumptions and demographics of the plan particularly the entry age into the plan. The PEPPRA total normal cost for the plan is calculated assuming the entire active population, including classic members, is subject to the adopted PEPPRA formula and applicable compensation limits. Should the total normal cost of the plan change by one percent or more from the base total normal cost established for the plan, the new member rate shall be 50% of the new normal cost rounded up to the next highest quarter percent.

Rate Plan Identifier	Plan	Basis for Current Rate		Rates Effective July 1, 2017			
		Total Normal Cost	Member Rate	Total Normal Cost	Change	Change Needed	Member Rate
25432	Safety Fire PEPPRA	22.070%	11.000%	22.165%	0.095%	No	11.000%
25433	Safety Police PEPPRA	22.070%	11.000%	22.165%	0.095%	No	11.000%



## **APPENDIX E**

### **GLOSSARY OF ACTUARIAL TERMS**

## Glossary of Actuarial Terms

### **Accrued Liability** (*also called Actuarial Accrued Liability or Entry Age Normal Accrued Liability*)

The total dollars needed as of the valuation date to fund all benefits earned in the past for *current* members.

### **Actuarial Assumptions**

Assumptions made about certain events that will affect pension costs. Assumptions generally can be broken down into two categories: demographic and economic. Demographic assumptions include such things as mortality, disability and retirement rates. Economic assumptions include discount rate, salary growth and inflation.

### **Actuarial Methods**

Procedures employed by actuaries to achieve certain funding goals of a pension plan. Actuarial methods include funding method, setting the length of time to fund the Accrued Liability and determining the Value of Assets.

### **Actuarial Valuation**

The determination, as of a valuation date of the Normal Cost, Accrued liability, and related actuarial present values for a pension plan. These valuations are performed annually or when an employer is contemplating a change to their plan provisions.

### **Amortization Bases**

Separate payment schedules for different portions of the Unfunded Liability. The total Unfunded Liability of a Risk Pool or non-pooled plan can be segregated by "cause," creating "bases" and each such base will be separately amortized and paid for over a specific period of time. However, all bases are amortized using investment and payroll assumptions from the current valuation. This can be likened to a home having a first mortgage of 24 years remaining payments and a second mortgage that has 10 years remaining payments. Each base or each mortgage note has its own terms (payment period, principal, etc.)

Generally, in an actuarial valuation, the separate bases consist of changes in unfunded liability due to contract amendments, actuarial assumption changes, actuarial methodology changes, and/or gains and losses. Payment periods are determined by Board policy and vary based on the cause of the change.

### **Amortization Period**

The number of years required to pay off an Amortization Base.

### **Classic Member (under PEPPRA)**

A classic member is a member who joined CalPERS prior to January, 1, 2013 and who is not defined as a new member under PEPPRA. (See definition of new member below)

### **Discount Rate Assumption**

The actuarial assumption that was called "investment return" in earlier CalPERS reports or "actuarial interest rate" in Section 20014 of the California Public Employees' Retirement Law (PERL).

### **Entry Age**

The earliest age at which a plan member begins to accrue benefits under a defined benefit pension plan. In most cases, this is the age of the member on their date of hire.

### **Entry Age Normal Cost Method**

An actuarial cost method designed to fund a member's total plan benefit over the course of his or her career. This method is designed to yield a rate expressed as a level percentage of payroll. (The assumed retirement age less the entry age is the amount of time required to fund a member's total benefit. Generally, the older a member on the date of hire, the greater the entry age normal cost. This is mainly because there is less time to earn investment income to fund the future benefits.)

**Fresh Start**

A Fresh Start is when multiple amortization bases are collapsed to one base and amortized together over a new funding period.

**Funded Status**

A measure of how well funded, or how "on track" a plan or risk pool is with respect to assets versus accrued liabilities. A ratio greater than 100% means the plan or risk pool has more assets than liabilities and a ratio less than 100% means liabilities are greater than assets.

**GASB 68**

Statement No. 68 of the Governmental Accounting Standards Board. The accounting standard governing a state or local governmental employer's accounting and financial reporting for pensions. GASB 68 replaces GASB 27 effective the first fiscal year beginning after June 15, 2014.

**New Member (under PEPRA)**

A new member includes an individual who becomes a member of a public retirement system for the first time on or after January 1, 2013, and who was not a member of another public retirement system prior to that date, and who is not subject to reciprocity with another public retirement system.

**Normal Cost**

The annual cost of service accrual for the upcoming fiscal year for active employees. The normal cost should be viewed as the long term contribution rate.

**Pension Actuary**

A business professional that is authorized by the Society of Actuaries, and the American Academy of Actuaries to perform the calculations necessary to properly fund a pension plan.

**PEPRA**

The California Public Employees' Pension Reform Act of 2013

**Prepayment Contribution**

A payment made by the employer to reduce or eliminate the year's required employer contribution.

**Present Value of Benefits (PVB)**

The total dollars needed as of the valuation date to fund all benefits earned in the past or expected to be earned in the future for *current* members.

**Superfunded**

A condition existing when a plan's Actuarial Value of Assets exceeds its Present Value of Benefits. Prior to the passage of PEPRA, when this condition existed on a given valuation date for a given plan, employee contributions for the rate year covered by that valuation could be waived.

**Unfunded Liability (UAL)**

When a plan or pool's Value of Assets is less than its Accrued Liability, the difference is the plan or pool's Unfunded Liability. If the Unfunded Liability is positive, the plan or pool will have to pay contributions exceeding the Normal Cost.



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**August 2016**

**MISCELLANEOUS PLAN OF THE CITY OF GARDEN GROVE (CalPERS ID: 4553365413)  
Annual Valuation Report as of June 30, 2015**

Dear Employer,

As an attachment to this letter, you will find a copy of the June 30, 2015 actuarial valuation report of your pension plan. Your 2015 actuarial valuation report contains important actuarial information about your pension plan at CalPERS. Your CalPERS staff actuary, whose signature appears in the "Actuarial Certification" section on page 1, is available to discuss the report with you after August 31, 2016.

**Future Contributions**

The exhibit below displays the minimum employer contributions for Fiscal Year 2017-18 and projected contributions for Fiscal Year 2018-19, before any cost sharing. The projected contributions for Fiscal Year 2018-19 are based on the most recent information available, including an estimate of the investment return for Fiscal Year 2015-16, namely 0.0 percent. For a projection of employer contributions beyond Fiscal Year 2018-19, please refer to the "Projected Employer Contributions" in the "Highlights and Executive Summary" section. This 5-year projection of future employer contributions supersedes any previous projections we have provided. The "Risk Analysis" section of the valuation report also contains estimated employer contributions in future years under a variety of investment return scenarios.

Fiscal Year	Employer Normal Cost Rate	Employer Payment of Unfunded Liability	Employee PEPRA Rate
2017-18	9.210%	\$5,516,931	6.00%
2018-19 (projected)	9.2%	\$6,538,423	N/A

Member contributions other than cost sharing (whether paid by the employer or the employee) are in addition to the above. **The employer contributions in this report do not reflect any cost sharing arrangement you may have with your employees.**

The estimates for Fiscal Year 2018-19 also assume that there are no future contract amendments and no liability gains or losses (such as larger than expected pay increases, more retirements than expected, etc.). This is a very important assumption because these gains and losses do occur and can have a significant impact on required contributions. These gains and losses cannot be predicted in advance so the projected employer contributions are just estimates. The actual required employer contributions for Fiscal Year 2018-19 will be provided in next year's report.

### Changes since the Prior Year's Valuation

Beginning with Fiscal Year 2017-18 CalPERS will collect employer contributions toward the plan's unfunded liability as dollar amounts instead of the prior method of a contribution rate. This change will address potential funding issues that could arise from a declining payroll or reduction in the number of active members in the plan. Funding the unfunded liability as a percentage of payroll could lead to the underfunding of the plans. Although employers will be invoiced at the beginning of the fiscal year for their unfunded liability payment the plan's normal cost contribution will continue to be collected as a percentage of payroll.

The CalPERS Board of Administration adopted a Risk Mitigation Policy which is designed to reduce funding risk over time. The policy establishes a mechanism whereby CalPERS investment performance that significantly outperforms the discount rate triggers adjustments to the discount rate, expected investment return and strategic asset allocation targets. A minimum excess investment return of 4% above the existing discount rate is necessary to cause a funding risk mitigation event. The policy has no impact on the current year valuation results but is expected to have an impact in future years. More details on the Risk Mitigation Policy can be found on our website.

Besides the above noted changes, there may also be changes specific to the plan such as contract amendments and funding changes.

Further descriptions of general changes are included in the "Highlights and Executive Summary" section and in Appendix A, "Actuarial Methods and Assumptions." The effects of the changes on the required contributions are included in the "Reconciliation of Required Employer Contributions" section.

We understand that you might have a number of questions about these results. While we are very interested in discussing these results with your agency, in the interest of allowing us to give every public agency their results, we ask that you wait until after August 31 to contact us with actuarial questions. If you have other questions, you may call the Customer Contact Center at (888)-CalPERS or (888-225-7377).

Sincerely,



ALAN MILLIGAN  
Chief Actuary



**ACTUARIAL VALUATION**

as of June 30, 2015

**for the  
MISCELLANEOUS PLAN  
of the  
CITY OF GARDEN GROVE**

(CalPERS ID: 4553365413)

(Rate Plan ID: 1057)

**REQUIRED CONTRIBUTIONS  
FOR FISCAL YEAR**

**July 1, 2017 – June 30, 2018**

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## ACTUARIAL CERTIFICATION

To the best of our knowledge, this report is complete and accurate and contains sufficient information to disclose, fully and fairly, the funded condition of the MISCELLANEOUS PLAN OF THE CITY OF GARDEN GROVE. This valuation is based on the member and financial data as of June 30, 2015 provided by the various CalPERS databases and the benefits under this plan with CalPERS as of the date this report was produced. It is our opinion that the valuation has been performed in accordance with generally accepted actuarial principles, in accordance with standards of practice prescribed by the Actuarial Standards Board, and that the assumptions and methods are internally consistent and reasonable for this plan, as prescribed by the CalPERS Board of Administration according to provisions set forth in the California Public Employees' Retirement Law.

The undersigned is an actuary for CalPERS, who is a member of the American Academy of Actuaries and the Society of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.



KERRY J. WORGAN, MAAA, FSA, FCIA  
Senior Pension Actuary, CalPERS



## **HIGHLIGHTS AND EXECUTIVE SUMMARY**

- **INTRODUCTION**
- **PURPOSE OF THE REPORT**
- **REQUIRED CONTRIBUTIONS**
- **PLAN'S FUNDED STATUS**
- **PROJECTED EMPLOYER CONTRIBUTIONS**
- **COST**
- **CHANGES SINCE THE PRIOR YEAR'S VALUATION**
- **SUBSEQUENT EVENTS**

## Introduction

This report presents the results of the June 30, 2015 actuarial valuation of the MISCELLANEOUS PLAN OF THE CITY OF GARDEN GROVE of the California Public Employees' Retirement System (CalPERS). This actuarial valuation sets the required employer contributions for Fiscal Year 2017-18.

The CalPERS Board of Administration adopted a Risk Mitigation Policy which is designed to reduce funding risk over time. The policy establishes a mechanism whereby CalPERS investment performance that significantly outperforms the discount rate triggers adjustments to the discount rate, expected investment return and strategic asset allocation targets. A minimum excess investment return of 4% above the existing discount rate is necessary to cause a funding risk mitigation event. The Risk Mitigation Policy does not have an impact on the current year actuarial valuation. More details on the Risk Mitigation Policy can be found on our website.

## Purpose of the Report

The actuarial valuation was prepared by the CalPERS Actuarial Office using data as of June 30, 2015. The purpose of the report is to:

- Set forth the assets and accrued liabilities of this plan as of June 30, 2015;
- Determine the required employer contributions for the fiscal year July 1, 2017 through June 30, 2018;
- Provide actuarial information as of June 30, 2015 to the CalPERS Board of Administration and other interested parties.

The pension funding information presented in this report should not be used in financial reports subject to Governmental Accounting Standards Board (GASB) Statement No. 68 for an Agent Employer Defined Benefit Pension Plan. A separate accounting valuation report for such purposes is available from CalPERS and details for ordering are available on our website.

The use of this report for any other purposes may be inappropriate. In particular, this report does not contain information applicable to alternative benefit costs. The employer should contact their actuary before disseminating any portion of this report for any reason that is not explicitly described above.

### California Actuarial Advisory Panel Recommendations

This report includes all the basic disclosure elements as described in the *Model Disclosure Elements for Actuarial Valuation Reports* recommended in 2011 by the California Actuarial Advisory Panel (CAAP), with the exception of including the original base amounts of the various components of the unfunded liability in the Schedule of Amortization Bases shown on page 15.

Additionally, this report includes the following "Enhanced Risk Disclosures" also recommended by the CAAP in the Model Disclosure Elements document:

- A "Deterministic Stress Test," projecting future results under different investment income scenarios
- A "Sensitivity Analysis," showing the impact on current valuation results using a 1 percent plus or minus change in the discount rate.

## Required Contributions

		Fiscal Year
Required Employer Contribution		2017-18
Employer Normal Cost Rate		9.210%
Plus Either		
1) Monthly Employer Dollar UAL Payment	\$	459,744
Or		
2) Annual UAL Prepayment Option	\$	5,321,001
Required PEPRA Member Contribution Rate		6.00%
<p>The total minimum required employer contribution is the <b>sum</b> of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll) <b>plus</b> the Employer Unfunded Accrued Liability (UAL) Contribution Amount (billed monthly in dollars). Only the UAL portion of the employer contribution can be prepaid (which must be received in full no later than July 31). Plan Normal Cost contributions will be made as part of the payroll reporting process. If there is contractual cost sharing or other change, this amount will change. §20572 of the Public Employees' Retirement Law assesses interest at an annual rate of 10 percent if a contracting agency fails to remit the required contributions when due. For additional detail regarding the determination of the required contribution for PEPRA members, see Appendix D. Required member contributions for Classic members can be found in Appendix B.</p>		

	Fiscal Year	Fiscal Year
	2016-17	2017-18
<b>Normal Cost Contribution as a Percentage of Payroll</b>		
Total Normal Cost	17.207%	17.087%
Employee Contribution <sup>1</sup>	7.967%	7.877%
Employer Normal Cost	9.240%	9.210%
Projected Annual Payroll for Contribution Year	\$ 28,744,874	\$ 30,313,283
<b>Estimated Employer Contributions Based On Projected Payroll</b>		
Total Normal Cost	\$ 4,946,129	\$ 5,179,631
Employee Contribution <sup>1</sup>	2,290,104	2,387,777
Employer Normal Cost	2,656,025	2,791,854
Unfunded Liability Contribution	4,773,319	5,516,931
Estimated Total Employer Contribution <sup>2</sup>	\$ 7,429,344	\$ 8,308,785

<sup>1</sup> For classic members, this is the percentage specified in the Public Employees Retirement Law, net of any reduction from the use of a modified formula or other factors. For PEPRA members, the member contribution rate is based on 50 percent of the normal cost. A development of PEPRA member contribution rates can be found in Appendix D. Employee cost sharing is not shown in this report.

<sup>2</sup> As a percentage of projected payroll the UAL contribution for Fiscal Year 2017-18 is 18.200 percent for an estimated total employer contribution rate of 27.410 percent. As determined in the June 30, 2014 valuation, the Fiscal Year 2016-17 UAL contribution is 16.606 percent for a total employer contribution rate of 25.846 percent.

## Plan's Funded Status

	June 30, 2014	June 30, 2015
1. Present Value of Projected Benefits	\$ 297,748,125	\$ 312,319,843
2. Entry Age Normal Accrued Liability	263,605,778	277,184,137
3. Market Value of Assets (MVA)	\$ 196,573,743	\$ 196,886,250
4. Unfunded Accrued Liability (UAL) [(2) - (3)]	\$ 67,032,035	\$ 80,297,887
5. Funded Ratio [(3) / (2)]	74.6%	71.0%

## Projected Employer Contributions

The estimated employer contribution for Fiscal Year 2018-19 is based on a projection of the most recent information we have available, including an estimated 0.0 percent investment return for Fiscal Year 2015-16.

The table below shows projected employer contributions (before cost sharing) for the next five fiscal years, assuming CalPERS earns 0.0 percent for Fiscal Year 2015-16 and 7.50 percent every fiscal year thereafter, and assuming that all other actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur during the projection period. The projected normal cost percentages do not reflect that the normal cost will decline over time as new employees are hired into PEPPRA or other lower cost benefit tiers.

	Required Contribution	Projected Future Employer Contributions				
Fiscal Year	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Normal Cost %	9.210%	9.2%	9.2%	9.2%	9.2%	9.2%
UAL \$	5,516,931	6,538,423	7,616,236	8,275,853	8,993,522	9,530,699

For projected contributions under alternate investment return scenarios, please see the "Analysis of Future Investment Return Scenarios" in the "Risk Analysis" section.

## Cost

### Actuarial Cost Estimates in General

What will this pension plan cost? Unfortunately, there is no simple answer. There are two major reasons for the complexity of the answer. First, actuarial calculations, including the ones in this report, are based on a number of assumptions about the future. These assumptions can be divided into two categories.

- Demographic assumptions include the percentage of employees that will terminate, die, become disabled, and retire in each future year.
- Economic assumptions include future salary increases for each active employee, and the assumption with the greatest impact: future asset returns at CalPERS for each year into the future until the last dollar is paid to current members of the plan.

While CalPERS has set these assumptions to reflect our best estimate of the real future of the plan, it must be understood that these assumptions are very long-term predictors and will surely not be realized in any one year. For example, while the asset earnings at CalPERS have averaged more than the assumed return of 7.5 percent for the past twenty year period ending June 30, 2015, returns for each fiscal year ranged from negative -24 percent to +21.7 percent.

Second, the very nature of actuarial funding produces the answer to the question of plan cost as the sum of two separate pieces.

- The Normal Cost (i.e., the annual cost associated with one year of service accrual) expressed as a percentage of total active payroll.
- The Past Service Cost or Accrued Liability (i.e., the current value of the benefit for all credited past service of current members) which is expressed as a lump sum dollar amount.

The cost is the sum of a percent of future pay and a lump sum dollar amount. In prior years CalPERS converted Past Service Cost to a percent of payroll and expressed the total required employer contribution as a single rate. Going forward the Past Service Cost will no longer be converted to a percent of payroll and this cost will be invoiced to the employer as a monthly dollar contribution amount with the option to prepay the annual amount at the beginning of the fiscal year. The normal cost will continue to be expressed as a percentage of active payroll with employer and employee contributions payable as part of the payroll reporting process.

## Changes since the Prior Year's Valuation

### Benefits

The standard actuarial practice at CalPERS is to recognize mandated legislative benefit changes in the first annual valuation following the effective date of the legislation. Voluntary benefit changes by plan amendment are generally included in the first valuation that is prepared after the amendment becomes effective, even if the valuation date is prior to the effective date of the amendment.

This valuation generally reflects plan changes by amendments effective before the date of the report. Please refer to the "Plan's Major Benefit Options" and Appendix B for a summary of the plan provisions used in this valuation. The effect of any mandated benefit changes or plan amendments on the unfunded liability is shown in the "(Gain)/Loss Analysis" and the effect on the employer contribution is shown in the "Reconciliation of Required Employer Contributions." It should be noted that no change in liability or contribution is shown for any plan changes which were already included in the prior year's valuation.

### Actuarial Methods and Assumptions

Beginning with Fiscal Year 2017-18 CalPERS will collect employer contributions toward the plan's unfunded liability as dollar amounts instead of the prior method of a contribution rate. This change will address potential funding issues that could arise from a declining payroll or reduction in the number of active members in the plan. Funding the unfunded liability as a percentage of payroll could lead to the underfunding of the plans. Although employers will be invoiced at the beginning of the fiscal year for their unfunded liability payment the plan's normal cost contribution will continue to be collected as a percentage of payroll.

## Subsequent Events

### Risk Mitigation

The CalPERS Board of Administration adopted a Risk Mitigation Policy which is designed to reduce funding risk over time. The policy establishes a mechanism whereby CalPERS investment performance that significantly outperforms the discount rate triggers adjustments to the discount rate, expected investment return and strategic asset allocation targets. A minimum excess investment return of 4% above the existing discount rate is necessary to cause a funding risk mitigation event. More details on the Risk Mitigation Policy can be found on our website.

## **ASSETS**

- **RECONCILIATION OF THE MARKET VALUE OF ASSETS**
- **ASSET ALLOCATION**
- **CALPERS HISTORY OF INVESTMENT RETURNS**

## Reconciliation of the Market Value of Assets

1. Market Value of Assets as of 6/30/14 including Receivables	\$	196,573,743
2. Change in Receivables for Service Buybacks as of 6/30/14		519
3. Employer Contributions		5,948,472
4. Employee Contributions		2,183,563
5. Benefit Payments to Retirees and Beneficiaries		(11,912,058)
6. Refunds		(221,980)
7. Lump Sum Payments		0
8. Transfers and Miscellaneous Adjustments		97,708
9. Investment Return		4,216,283
10. Market Value of Assets as of 6/30/15 including Receivables	\$	<u>196,886,250</u>

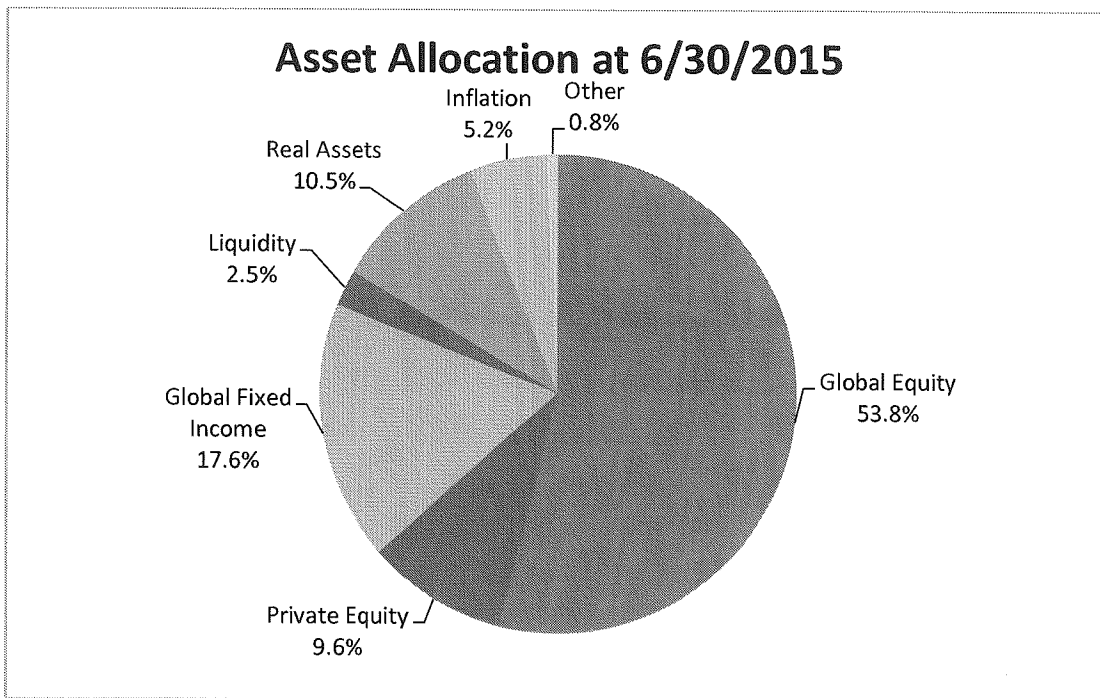


## Asset Allocation

CalPERS adheres to an Asset Allocation Strategy which establishes asset class allocation policy targets and ranges, and manages those asset class allocations within their policy ranges. CalPERS Investment Belief No. 6 recognizes that strategic asset allocation is the dominant determinant of portfolio risk and return. On February 19, 2014, the CalPERS Board of Administration adopted changes to the current asset allocation as shown in the Policy Target Allocation below expressed as a percentage of total assets. The asset allocation has an expected long term blended rate of return of 7.5 percent.

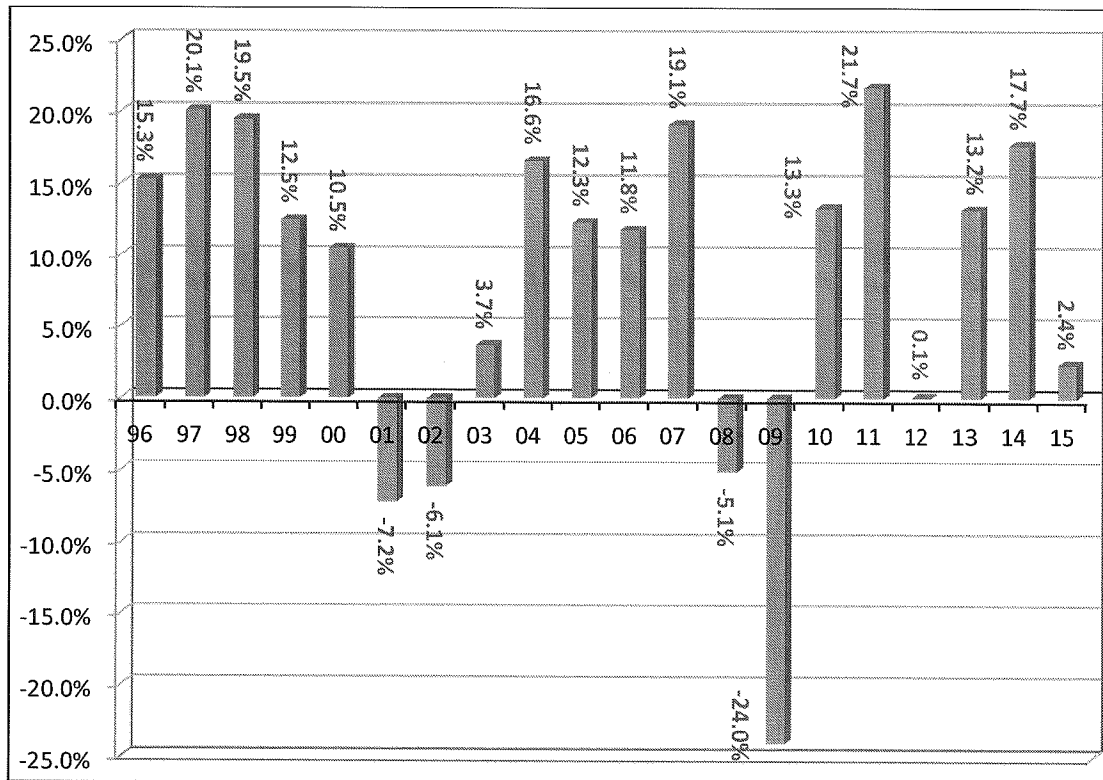
The asset allocation and market value of assets shown below reflect the values of the Public Employees' Retirement Fund (PERF) in its entirety as of June 30, 2015. The assets for CITY OF GARDEN GROVE MISCELLANEOUS PLAN are part of the PERF and are invested accordingly.

(A) Asset Class	(B) Market Value (\$ Billion)	(C) Policy Target Allocation
Global Equity	162.5	51.0%
Private Equity	29.0	10.0%
Global Fixed Income	53.1	20.0%
Liquidity	7.5	1.0%
Real Assets	31.8	12.0%
Inflation Sensitive Assets	15.6	6.0%
Other	2.4	0.0%
<b>Total Fund</b>	<b>\$301.9</b>	<b>100.0%</b>



## CalPERS History of Investment Returns

The following is a chart with the 20-year historical annual returns of the Public Employees Retirement Fund for each fiscal year ending on June 30. Beginning in 2002, the figures are reported as gross of fees.



The table below shows historical geometric mean annual returns of the Public Employees Retirement Fund for various time periods ending on June 30, 2015, (figures are reported as gross of fees). The geometric mean rate of return is the average rate per period compounded over multiple periods. It should be recognized that in any given year the rate of return is volatile. Although the expected rate of return on the recently adopted new asset allocation is 7.5 percent, the portfolio has an expected volatility of 11.76 percent per year. The volatility is a measure of the risk of the portfolio expressed in the standard deviation of the fund's total return distribution, expressed as a percentage. Consequently, when looking at investment returns, it is more instructive to look at returns over longer time horizons.

History of CalPERS Geometric Mean Rates of Return and Volatilities					
	1 year	5 year	10 year	20 year	30 year
Geometric Return	2.4%	10.7%	6.1%	7.7%	9.1%
Volatility	—	9.4%	14.0%	11.8%	10.5%

## **LIABILITIES AND CONTRIBUTIONS**

- **DEVELOPMENT OF ACCRUED AND UNFUNDED LIABILITIES**
- **(GAIN) / LOSS ANALYSIS 06/30/14 - 06/30/15**
- **SCHEDULE OF AMORTIZATION BASES**
- **30-YEAR AMORTIZATION SCHEDULES AND ALTERNATIVES**
- **RECONCILIATION OF REQUIRED EMPLOYER CONTRIBUTIONS**
- **EMPLOYER CONTRIBUTION HISTORY**
- **FUNDING HISTORY**

## Development of Accrued and Unfunded Liabilities

	June 30, 2014	June 30, 2015
1. Present Value of Projected Benefits		
a) Active Members	\$ 132,518,360	139,212,479
b) Transferred Members	19,349,894	18,174,438
c) Terminated Members	3,746,277	4,055,917
d) Members and Beneficiaries Receiving Payments	142,133,594	150,877,009
e) Total	\$ 297,748,125	312,319,843
2. Present Value of Future Employer Normal Costs	\$ 17,791,906	18,310,008
3. Present Value of Future Employee Contributions	\$ 16,350,441	16,825,698
4. Entry Age Normal Accrued Liability		
a) Active Members [(1a) - (2) - (3)]	\$ 98,376,013	104,076,773
b) Transferred Members (1b)	19,349,894	18,174,438
c) Terminated Members (1c)	3,746,277	4,055,917
d) Members and Beneficiaries Receiving Payments (1d)	142,133,594	150,877,009
e) Total	\$ 263,605,778	277,184,137
5. Market Value of Assets (MVA)	\$ 196,573,743	196,886,250
6. Unfunded Accrued Liability (UAL) [(4e) - (5)]	\$ 67,032,035	80,297,887
7. Funded Ratio [(5) / (4e)]	74.6%	71.0%

## (Gain)/Loss Analysis 6/30/14 – 6/30/15

To calculate the cost requirements of the plan, assumptions are made about future events that affect the amount and timing of benefits to be paid and assets to be accumulated. Each year, actual experience is compared to the expected experience based on the actuarial assumptions. This results in actuarial gains or losses, as shown below.

### 1. Total (Gain)/Loss for the Year

a) Unfunded Accrued Liability (UAL) as of 6/30/14	\$	67,032,035
b) Expected Payment on the UAL during 2014/2015		3,367,884
c) Interest through 6/30/15 $[(.075 \times (1a) - ((1.075)^{1/2} - 1) \times (1b))]$		4,903,390
d) Expected UAL before all other changes $[(1a) - (1b) + (1c)]$		68,567,541
e) Change due to plan changes		0
f) Change due to assumption change		0
g) Expected UAL after all other changes $[(1d) + (1e) + (1f)]$		68,567,541
h) Actual UAL as of 6/30/15		80,297,887
i) Total (Gain)/Loss for 2014/2015 $[(1h) - (1g)]$	\$	11,730,346

### 2. Contribution (Gain)/Loss for the Year

a) Expected Contribution (Employer and Employee)	\$	8,021,145
b) Interest on Expected Contributions		295,355
c) Actual Contributions		8,132,035
d) Interest on Actual Contributions		299,438
e) Expected Contributions with Interest $[(2a) + (2b)]$		8,316,500
f) Actual Contributions with Interest $[(2c) + (2d)]$		8,431,473
g) Contribution (Gain)/Loss $[(2e) - (2f)]$	\$	(114,973)

### 3. Asset (Gain)/Loss for the Year

a) Market Value of Assets as of 6/30/14	\$	196,573,743
b) Prior Fiscal Year Receivables		(362,281)
c) Current Fiscal Year Receivables		362,800
d) Contributions Received		8,132,035
e) Benefits and Refunds Paid		(12,134,038)
f) Transfers and Miscellaneous Adjustments		97,708
g) Expected Int. $[(.075 \times (3a + 3b) + ((1.075)^{1/2} - 1) \times ((3d) + (3e) + (3f))]$		14,572,095
h) Expected Assets as of 6/30/15 $[(3a) + (3b) + (3c) + (3d) + (3e) + (3f) + (3g)]$		207,242,062
i) Market Value of Assets as of 6/30/15		196,886,250
j) Asset (Gain)/Loss $[(3h) - (3i)]$	\$	10,355,812

### 4. Liability (Gain)/Loss for the Year

a) Total (Gain)/Loss (1i)	\$	11,730,346
b) Contribution (Gain)/Loss (2g)		(114,973)
c) Asset (Gain)/Loss (3j)		10,355,812
d) Liability (Gain)/Loss $[(4a) - (4b) - (4c)]$	\$	1,489,507

## Schedule of Amortization Bases

There is a two-year lag between the valuation date and the start of the contribution fiscal year.

- The assets, liabilities, and funded status of the plan are measured as of the valuation date: June 30, 2015.
- The required employer contributions determined by the valuation are for the fiscal year beginning two years after the valuation date: Fiscal Year 2017-18.

This two-year lag is necessary due to the amount of time needed to extract and test the membership and financial data, and the need to provide public agencies with their required employer contribution well in advance of the start of the fiscal year.

The Unfunded Accrued Liability (UAL) is used to determine the employer contribution and therefore must be rolled forward two years from the valuation date to the first day of the fiscal year for which the contribution is being determined. The UAL is rolled forward each year by subtracting the expected payment on the UAL for the fiscal year and adjusting for interest. The expected payment on the UAL for a fiscal year is equal to the Expected Employer Contribution for the fiscal year minus the Expected Normal Cost for the year. The Employer Contribution for the first fiscal year is determined by the actuarial valuation two years ago and the contribution for the second year is from the actuarial valuation one year ago. The Normal Cost Rate for each of the two fiscal years is assumed to be the same as the rate determined by the current valuation. All expected dollar amounts are determined by multiplying the rate by the expected payroll for the applicable fiscal year, based on payroll as of the valuation date.

Reason for Base	Date Established	Amortization Period	Balance 6/30/15	Expected Payment 2015-16	Balance 6/30/16	Expected Payment 2016-17	Balance 6/30/17	Scheduled Payment for 2017-18
ASSUMPTION CHANGE	06/30/03	8	\$6,676,283	\$832,796	\$6,313,542	\$857,780	\$5,897,693	\$883,513
BENEFIT CHANGE	06/30/04	8	\$4,199,653	\$523,863	\$3,971,474	\$539,578	\$3,709,888	\$555,766
METHOD CHANGE	06/30/04	9	\$(569,207)	\$(65,838)	\$(543,635)	\$(67,813)	\$(514,098)	\$(69,847)
ASSUMPTION CHANGE	06/30/09	14	\$9,531,608	\$834,891	\$9,380,845	\$859,938	\$9,192,806	\$885,736
SPECIAL (GAIN)/LOSS	06/30/09	24	\$5,405,092	\$349,595	\$5,448,006	\$360,083	\$5,483,265	\$370,885
SPECIAL (GAIN)/LOSS	06/30/10	25	\$1,408,852	\$89,291	\$1,421,937	\$91,969	\$1,433,227	\$94,728
GOLDEN HANDSHAKE	06/30/11	16	\$1,241,451	\$100,365	\$1,230,499	\$103,376	\$1,215,604	\$106,477
ASSUMPTION CHANGE	06/30/11	16	\$5,095,886	\$411,976	\$5,050,932	\$424,335	\$4,989,792	\$437,065
SPECIAL (GAIN)/LOSS	06/30/11	26	\$(68,802)	\$(4,278)	\$(69,527)	\$(4,406)	\$(70,172)	\$(4,539)
PAYMENT (GAIN)/LOSS	06/30/12	27	\$(213,102)	\$(13,015)	\$(215,591)	\$(13,405)	\$(217,861)	\$(13,808)
(GAIN)/LOSS	06/30/12	27	\$12,225,651	\$746,670	\$12,368,411	\$769,070	\$12,498,653	\$792,142
GOLDEN HANDSHAKE	06/30/13	18	\$348,170	\$26,289	\$347,026	\$27,077	\$344,979	\$27,890
(GAIN)/LOSS	06/30/13	28	\$29,253,294	\$411,449	\$31,020,692	\$847,584	\$32,468,450	\$1,309,517
ASSUMPTION CHANGE	06/30/14	19	\$12,351,937	\$(72,560)	\$13,353,564	\$254,355	\$14,091,361	\$523,970
(GAIN)/LOSS	06/30/14	29	\$(18,319,222)	\$(53,721)	\$(19,637,465)	\$(276,202)	\$(20,823,903)	\$(568,975)
(GAIN)/LOSS	06/30/15	30	\$11,730,343	\$132,487	\$12,472,753	\$149,205	\$13,253,510	\$186,411
<b>TOTAL</b>			<b>\$80,297,887</b>	<b>\$4,250,260</b>	<b>\$81,913,463</b>	<b>\$4,922,524</b>	<b>\$82,953,194</b>	<b>\$5,516,931</b>

## 30-Year Amortization Schedule and Alternatives

The amortization schedule on the previous page shows the minimum contributions required according to CalPERS amortization policy. There has been considerable interest from many agencies in paying off these unfunded accrued liabilities sooner and the possible savings in doing so. As a result, we have provided alternate amortization schedules to help analyze the current amortization schedule and illustrate the advantages of accelerating unfunded liability payments.

Shown on the following page are future year amortization payments based on 1) the current amortization schedule reflecting the individual bases and remaining periods shown on the previous page, and 2) alternate "fresh start" amortization schedules using two sample periods that would both result in interest savings relative to the current amortization schedule. Note that the payments under each alternate scenario increase by 3 percent for each year into the future. The schedules do not attempt to reflect any experience after June 30, 2015 that may deviate from the actuarial assumptions. Therefore, future amortization payments displayed in the Current Amortization Schedule may not match projected amortization payments shown in connection with Projected Employer Contributions provided elsewhere in this report.

The Current Amortization Schedule typically contains individual bases that are both positive and negative. Positive bases result from plan changes, assumption changes or plan experience that result in increases to unfunded liability. Negative bases result from plan changes, assumption changes or plan experience that result in decreases to unfunded liability. The combination of positive and negative bases within an amortization schedule can result in unusual or problematic circumstances in future years such as:

- A positive total unfunded liability with a negative total payment,
- A negative total unfunded liability with a positive total payment, or
- Total payments that completely amortize the unfunded liability over a very short period of time

In any year where one of the above scenarios occurs, the actuary will consider corrective action such as replacing the existing unfunded liability bases with a single "fresh start" base and amortizing it over a reasonable period.

The Current Amortization Schedule on the following page may appear to show that, based on the current amortization bases, one of the above scenarios will occur at some point in the future. It is impossible to know today whether such a scenario will in fact arise since there will be additional bases added to the amortization schedule in each future year. Should such a scenario arise in any future year, the actuary will take appropriate action based on guidelines in the CalPERS amortization policy. For purposes of this display, total payments include any negative payments. Therefore, the amount of estimated savings may be understated to the extent that negative payments appear in the current schedule.

## 30-Year Amortization Schedule and Alternatives

Date	<u>Current Amortization Schedule</u>		<u>Alternate Schedules</u>			
	Balance	Payment	20 Year Amortization		15 Year Amortization	
	Balance	Payment	Balance	Payment	Balance	Payment
6/30/2017	82,953,194	5,516,931	82,953,194	6,263,416	82,953,194	7,604,281
6/30/2018	83,454,605	6,300,867	82,680,635	6,451,319	81,290,397	7,832,409
6/30/2019	83,180,821	7,126,871	82,192,813	6,644,858	79,266,363	8,067,381
6/30/2020	82,030,083	7,519,784	81,467,738	6,844,204	76,846,901	8,309,403
6/30/2021	80,385,657	7,955,188	80,481,597	7,049,530	73,995,046	8,558,685
6/30/2022	78,166,469	8,193,843	79,208,608	7,261,016	70,670,841	8,815,446
6/30/2023	75,533,396	8,439,659	77,620,871	7,478,847	66,831,106	9,079,909
6/30/2024	72,447,978	8,692,848	75,688,203	7,703,212	62,429,189	9,352,306
6/30/2025	68,868,637	7,130,401	73,377,958	7,934,309	57,414,700	9,632,875
6/30/2026	66,640,829	7,435,444	70,654,839	8,172,338	51,733,225	9,921,862
6/30/2027	63,929,660	7,658,509	67,480,692	8,417,508	45,326,012	10,219,517
6/30/2028	60,783,874	7,888,264	63,814,286	8,670,033	38,129,642	10,526,103
6/30/2029	57,163,940	8,124,912	59,611,075	8,930,134	30,075,669	10,841,886
6/30/2030	53,027,148	8,368,660	54,822,946	9,198,038	21,090,237	11,167,143
6/30/2031	48,327,375	7,279,962	49,397,938	9,473,979	11,093,665	11,502,157
6/30/2032	44,403,899	7,090,197	43,279,952	9,758,199		
6/30/2033	40,382,918	6,010,270	36,408,433	10,050,945		
6/30/2034	37,180,057	5,757,555	28,718,025	10,352,473		
6/30/2035	33,999,001	5,436,790	20,138,204	10,663,047		
6/30/2036	30,911,943	5,140,502	10,592,887	10,982,939		
6/30/2037	27,900,555	5,294,716				
6/30/2038	24,503,416	5,453,559				
6/30/2039	20,686,803	5,617,164				
6/30/2040	16,414,314	5,785,680				
6/30/2041	11,646,665	4,317,990				
6/30/2042	8,043,181	3,930,897				
6/30/2043	4,570,779	3,328,758				
6/30/2044	1,462,257	947,966				
6/30/2045	589,055	202,103				
6/30/2046	423,689	439,290				
<b>Totals</b>		<b>178,385,580</b>		<b>168,300,344</b>		<b>141,431,363</b>
<b>Estimated Savings</b>				<b>10,085,236</b>		<b>36,954,217</b>



## Reconciliation of Required Employer Contributions

### Normal Cost (% of Payroll)

1. For Period 7/1/16 – 6/30/17	
a) Employer Normal Cost	9.240%
b) Employee Contribution	7.967%
c) Total Normal Cost	17.207%
2. Effect of changes since the prior year annual valuation	
a) Effect of changes in demographics results	(0.120%)
b) Effect of plan changes	0.000%
c) Effect of changes in assumptions	0.000%
d) Net effect of the changes above [sum of (a) through (c)]	(0.120%)
3. For Period 7/1/17 – 6/30/18	
a) Employer Normal Cost	9.210%
b) Employee Contribution	7.877%
c) Total Normal Cost	17.087%
Employer Normal Cost Change [(3a) – (1a)]	(0.030%)
Employee Contribution Change [(3b) – (1b)]	(0.090%)

### Unfunded Liability Contribution (\$)

1. For Period 7/1/16 – 6/30/17	4,773,319
2. Effect of changes since the prior year annual valuation	
a) Effect of changes in demographics and financial results	186,411
b) Effect of plan changes	0
c) Effect of changes in assumptions	0
d) Effect of progression of amortization payments	557,201
e) Effect of changes due to Fresh Start	0
f) Effect of elimination of amortization base	0
g) Net effect of the changes above [sum of (a) through (f)]	743,612
3. For Period 7/1/17 – 6/30/18 [(1)+(2g)]	5,516,931

The amounts shown for the period 7/1/16 – 6/30/17 may be different if a prepayment of unfunded actuarial liability is made or a plan change became effective after the prior year's actuarial valuation was performed.

## Employer Contribution History

The table below provides a recent history of the required employer contributions for the plan, as determined by the annual actuarial valuation. It does not account for prepayments or benefit changes made during a fiscal year.

Fiscal Year	Employer Normal Cost	<u>Required By Valuation</u>	
		Unfunded Rate	Unfunded Liability Payment (\$)
2012 - 13	8.901%	9.248%	N/A
2013 - 14	9.117%	11.035%	N/A
2014 - 15	9.041%	12.596%	N/A
2015 - 16	9.193%	14.783%	N/A
2016 - 17	9.240%	16.606%	N/A
2017 - 18	9.210%	N/A	5,516,931

## Funding History

The table below shows the recent history of the actuarial accrued liability, the market value of assets, the funded ratio and the annual covered payroll.

Valuation Date	Accrued Liability	Market Value of Assets (MVA)	Unfunded Liability	Funded Ratio	Annual Covered Payroll
06/30/10	\$ 206,013,680	\$ 134,085,711	\$ 71,927,969	65.1%	\$ 27,751,566
06/30/11	220,262,133	159,294,216	60,967,917	72.3%	25,999,452
06/30/12	231,098,351	155,545,807	75,552,544	67.3%	26,848,493
06/30/13	241,817,365	171,340,680	70,476,685	70.9%	26,272,389
06/30/14	263,605,778	196,573,743	67,032,035	74.6%	26,305,632
06/30/15	277,184,137	196,886,250	80,297,887	71.0%	27,740,948

## **RISK ANALYSIS**

- **ANALYSIS OF FUTURE INVESTMENT RETURN SCENARIOS**
- **ANALYSIS OF DISCOUNT RATE SENSITIVITY**
- **VOLATILITY RATIOS**
- **HYPOTHETICAL TERMINATION LIABILITY**

## Analysis of Future Investment Return Scenarios

The investment return for Fiscal Year 2015-16 was not known at the time this report was produced. The investment return in Fiscal Year 2015-16 as of April 30, 2016 is 0.0 percent before administrative expenses. For purposes of projecting future employer contributions, we are assuming a 0.0 percent investment return for Fiscal Year 2015-16.

The investment return realized during a fiscal year first affects the required contribution for the fiscal year two years later. For example, the investment return for Fiscal Year 2015-16 will first be reflected in the June 30, 2016 actuarial valuation that will be used to set the employer contribution for Fiscal Year 2018-19. The Fiscal Year 2016-17 investment return will first be reflected in the June 30, 2017 actuarial valuation that will be used to set the employer contribution for Fiscal Year 2019-20 and so forth.

As part of this report, a sensitivity analysis was performed to determine the effects of various investment returns during fiscal years 2016-17, 2017-18 and 2018-19 on the 2019-20, 2020-21 and 2021-22 employer contributions. Once again, the projections assume that all other actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur.

Five different investment return scenarios were selected.

- The first scenario is a -3.8 percent return for each of the 2016-17, 2017-18, and 2018-19 fiscal years. Based on the current investment allocation, this is what one would expect if the markets were to give us about a 5<sup>th</sup> percentile return from July 1, 2016 through June 30, 2019.
- The second scenario is a 2.8 percent return for each of the 2016-17, 2017-18, and 2018-19 fiscal years. Based on the current investment allocation, this is what one would expect if the markets were to give us about a 25<sup>th</sup> percentile return from July 1, 2016 through June 30, 2019.
- The third scenario is a 7.5 percent return for each of the 2016-17, 2017-18, and 2018-19 fiscal years. Based on the current investment allocation, this is what one would expect if the markets were to give us about a 49<sup>th</sup> percentile return from July 1, 2016 through June 30, 2019.
- The fourth scenario is a 12.0 percent return for each of the 2016-17, 2017-18, and 2018-19 fiscal years. Based on the current investment allocation, this is what one would expect if the markets were to give us about a 75<sup>th</sup> percentile return from July 1, 2016 through June 30, 2019.
- Finally, the last scenario is an 18.9 percent return for each of the 2016-17, 2017-18, and 2018-19 fiscal years. Based on the current investment allocation, this is what one would expect if the markets were to give us about a 95<sup>th</sup> percentile return from July 1, 2016 through June 30, 2019.

The table below shows the estimated projected contributions and the estimated increases for the plan under the five different scenarios.

2016-19 Investment Return Scenario	Fiscal Year			Estimated Change Between 2018-19 and 2021-22
	2019-20	2020-21	2021-22	
<b>(3.8%)</b>				
Normal Cost	9.2%	9.2%	9.2%	0.0%
UAL Contribution	\$7,968,379	\$9,335,113	\$11,119,382	\$4,580,959
<b>2.8%</b>				
Normal Cost	9.2%	9.2%	9.2%	0.0%
UAL Contribution	\$7,762,720	\$8,726,147	\$9,916,838	\$3,378,415
<b>7.5%</b>				
Normal Cost	9.2%	9.2%	9.2%	0.0%
UAL Contribution	\$7,616,236	\$8,275,853	\$8,993,522	\$2,455,099
<b>12.0%</b>				
Normal Cost	9.4%	9.7%	9.9%	0.7%
UAL Contribution	\$7,475,450	\$7,862,589	\$8,150,728	\$1,612,305
<b>18.9%</b>				
Normal Cost	9.9%	10.6%	11.3%	2.1%
UAL Contribution	\$7,262,614	\$7,239,672	\$6,863,870	\$325,447

For the last two scenarios in the table above the results incorporate the impact of CalPERS Risk Mitigation Policy. A 12.0% return would result in a reduction of the discount rate by 0.05% and a return of 18.9% would reduce the discount rate by 0.15%. Reducing the discount rate increases both the plan's accrued liability and normal cost. While the projections reflect estimated changes to the normal cost due to lower discount rates, they do not reflect the possible increase in the PEPRa member contribution rate in such scenarios. More details about the Risk Mitigation policy can be found on our website.

The projected normal cost percentages do not reflect that the normal cost will decline over time as new employees are hired into PEPRa or other lower cost benefit tiers.

## Analysis of Discount Rate Sensitivity

The following analysis looks at the Fiscal Year 2017-18 total normal cost rates and liabilities under two different discount rate scenarios. Shown below are the total normal cost rates assuming discount rates that are 1 percent lower and 1 percent higher than the current valuation discount rate. This analysis shows the potential plan impacts if the PERF were to realize investment returns of 6.50 percent or 8.50 percent over the long-term.

This type of analysis gives the reader a sense of the long-term risk to required contributions.

Sensitivity Analysis			
As of June 30, 2015	6.50% Discount Rate (-1%)	7.50% Discount Rate (assumed rate)	8.50% Discount Rate (+1%)
Plan's Total Normal Cost	21.651%	17.087%	13.671%
Accrued Liability	\$315,368,067	\$277,184,137	\$245,813,605
Unfunded Accrued Liability	\$118,481,817	\$80,297,887	\$48,927,355

## Volatility Ratios

The actuarial calculations supplied in this communication are based on a number of assumptions about long-term demographic and economic behavior. Unless these assumptions (terminations, deaths, disabilities, retirements, salary growth, and investment return) are exactly realized each year, there will be differences on a year-to-year basis. The year-to-year differences between actual experience and the assumptions are called actuarial gains and losses and serve to lower or raise required employer contributions from one year to the next. Therefore, employer contributions will inevitably fluctuate, especially due to the ups and downs of investment returns.

### Asset Volatility Ratio (AVR)

Plans that have higher asset-to-payroll ratios experience more volatile employer contributions (as a percentage of payroll) due to investment return. For example, a plan with an asset-to-payroll ratio of 8 may experience twice the contribution volatility due to investment return volatility than a plan with an asset-to-payroll ratio of 4. Shown below is the asset volatility ratio, a measure of the plan's current volatility. It should be noted that this ratio is a measure of the current situation. It increases over time but generally tends to stabilize as the plan matures.

### Liability Volatility Ratio (LVR)

Plans that have higher liability-to-payroll ratios experience more volatile employer contributions (as a percentage of payroll) due to investment return and changes in liability. For example, a plan with a liability-to-payroll ratio of 8 is expected to have twice the contribution volatility of a plan with a liability-to-payroll ratio of 4. The liability volatility ratio is also included in the table below. It should be noted that this ratio indicates a longer-term potential for contribution volatility. The asset volatility ratio, described above, will tend to move closer to the liability volatility ratio as the plan matures.

Contribution Volatility	As of June 30, 2015	
1. Market Value of Assets without Receivables	\$	196,523,450
2. Payroll		27,740,948
3. Asset Volatility Ratio (AVR) [(1) / (2)]		7.1
4. Accrued Liability	\$	277,184,137
5. Liability Volatility Ratio (LVR) [(4) / (2)]		10.0

## Hypothetical Termination Liability

The hypothetical termination liability is an estimate of the financial position of the plan had the contract with CalPERS been terminated as of June 30, 2015. The plan liability on a termination basis is calculated differently compared to the plan's ongoing funding liability. For this hypothetical termination liability calculation, both compensation and service are frozen as of the valuation date and no future pay increases or service accruals are assumed.

A more conservative investment policy and asset allocation strategy was adopted by the CalPERS Board for the Terminated Agency Pool. The Terminated Agency Pool has limited funding sources since no future employer contributions will be made. Therefore, expected benefit payments are secured by risk-free assets and benefit security for members is increased while limiting the funding risk. However, this asset allocation has a lower expected rate of return than the PERF and consequently, a lower discount rate assumption. The lower discount rate for the Terminated Agency Pool results in higher liabilities for terminated plans.

The effective termination discount rate will depend on actual market rates of return for risk-free securities on the date of termination. As market discount rates are variable the table below shows a range for the hypothetical termination liability based on the lowest and highest interest rates observed during an approximate 2-year period centered around the valuation date.

<b>Market Value of Assets (MVA)</b>	<b>Hypothetical Termination Liability<sup>1,2</sup> @ 2.00%</b>	<b>Funded Status</b>	<b>Unfunded Termination Liability @ 2.00%</b>	<b>Hypothetical Termination Liability<sup>1,2</sup> @ 3.25%</b>	<b>Funded Status</b>	<b>Unfunded Termination Liability @ 3.25%</b>
\$196,886,250	\$559,746,395	35.2%	\$362,860,145	\$463,069,167	42.5%	\$266,182,917

<sup>1</sup> The hypothetical liabilities calculated above include a 7 percent mortality contingency load in accordance with Board policy. Other actuarial assumptions, such as wage and inflation assumptions, can be found in Appendix A.

<sup>2</sup> The current discount rate assumption used for termination valuations is a weighted average of the 10-year and 30-year U.S. Treasury yields where the weights are based on matching asset and liability durations as of the termination date. The discount rates used in the table are based on 20-year Treasury bonds, rounded to the nearest quarter percentage point, which is a good proxy for most plans. The 20-year Treasury yield was 2.75 percent on June 30, 2015.

In order to terminate the plan, you must first contact our Retirement Services Contract Unit to initiate a Resolution of Intent to Terminate. The completed Resolution will allow the plan actuary to give you a preliminary termination valuation with a more up-to-date estimate of the plan liabilities. CalPERS advises you to consult with the plan actuary before beginning this process.

## **PLAN'S MAJOR BENEFIT PROVISIONS**



## Plan's Major Benefit Options

Shown below is a summary of the major optional benefits for which your agency has contracted. A description of principal standard and optional plan provisions is in the following section of this Appendix.

Benefit Provision	Contract Package			
	Active Misc	Active Misc	Inactive Misc	Receiving Misc
Benefit Formula	2.5% @ 55	2.0% @ 62	2.0% @ 55	
Social Security Coverage Full/Modified	No Full	No Full	No Full	
Employee Contribution Rate	8.00%	6.00%		
Final Average Compensation Period	One Year	Three Year	One Year	
Sick Leave Credit	Yes	Yes	Yes	
Non-Industrial Disability	Standard	Standard	Standard	
Industrial Disability	No	No	No	
Pre-Retirement Death Benefits				
Optional Settlement 2W	Yes	Yes	Yes	
1959 Survivor Benefit Level	Indexed	Indexed	Indexed	
Special	No	No	No	
Alternate (firefighters)	No	No	No	
Post-Retirement Death Benefits				
Lump Sum	\$5000	\$5000	\$5000	\$5000
Survivor Allowance (PRSA)	Yes	Yes	Yes	Yes
COLA	2%	2%	2%	2%

## **APPENDICES**

- **APPENDIX A – ACTUARIAL METHODS AND ASSUMPTIONS**
- **APPENDIX B – PRINCIPAL PLAN PROVISIONS**
- **APPENDIX C – PARTICIPANT DATA**
- **APPENDIX D – DEVELOPMENT OF PEPRA MEMBER CONTRIBUTION RATES**
- **APPENDIX E – GLOSSARY OF ACTUARIAL TERMS**

## **APPENDIX A**

### **ACTUARIAL METHODS AND ASSUMPTIONS**

- **ACTUARIAL DATA**
- **ACTUARIAL METHODS**
- **ACTUARIAL ASSUMPTIONS**
- **MISCELLANEOUS**

## Actuarial Data

As stated in the Actuarial Certification, the data which serves as the basis of this valuation has been obtained from the various CalPERS databases. We have reviewed the valuation data and believe that it is reasonable and appropriate in aggregate. We are unaware of any potential data issues that would have a material effect on the results of this valuation, except that data does not always contain the latest salary information for former members now in reciprocal systems and does not recognize the potential for unusually large salary deviation in certain cases such as elected officials. Therefore, salary information in these cases may not be accurate. These situations are relatively infrequent, however, and when they do occur, they generally do not have a material impact on the required employer contributions.

## Actuarial Methods

### Actuarial Cost Method

The actuarial cost method used is the Entry Age Normal Cost Method. Under this method, projected benefits are determined for all members and the associated liabilities are spread in a manner that produces level annual cost as a percentage of pay in each year from the member's age of hire (entry age) to their assumed retirement age on the valuation date. The cost allocated to the current fiscal year is called the normal cost.

The actuarial accrued liability for active members is then calculated as the portion of the total cost of the plan allocated to prior years. The actuarial accrued liability for members currently receiving benefits and for members entitled to deferred benefits is equal to the present value of the benefits expected to be paid. No normal costs are applicable for these participants.

### Amortization of Unfunded Actuarial Accrued Liability

The excess of the total actuarial accrued liability over the market value of plan assets is called the unfunded actuarial accrued liability (UAL). Funding requirements are determined by adding the normal cost and an amortization payment toward the unfunded liability. Commencing with the June 30, 2013 valuation, all new gains or losses are tracked and amortized over a fixed 30-year period with a 5 year ramp up at the beginning and a 5 year ramp down at the end of the amortization period. All changes in liability due to plan amendments (other than golden handshakes) are amortized over a 20-year period with no ramp. Changes in actuarial assumptions, or changes in actuarial methodology are amortized over a 20-year period with a 5 year ramp up at the beginning and a 5 year ramp down at the end of the amortization period. Changes in unfunded accrued liability due to a Golden Handshake will be amortized over a period of 5 years.

#### Exceptions for Inconsistencies:

An exception to the amortization rules above is used whenever their application results in inconsistencies. In these cases, a "fresh start" approach is used. This means that the current unfunded actuarial liability is projected and amortized over a set number of years. For example, a fresh start is needed in the following situations:

- 1) When a positive payment would be required on a negative unfunded actuarial liability (or conversely a negative payment on a positive unfunded actuarial liability); or
- 2) When there are excess assets, rather than an unfunded liability. In this situation, a 30-year fresh start is used.

It should be noted that the actuary may determine that a fresh start is necessary under other circumstances. In all cases of a fresh start, the period is set by the actuary at what is deemed appropriate; however, the period will not be greater than 30 years.

Exceptions for Inactive Plans:

The following exceptions apply to plans classified as Inactive. These plans have no active members and no expectation to have active members in the future.

- Amortization of unfunded liability is on a “level dollar” basis rather than a “level percent of pay” basis
- Actuarial judgment will be used to shorten amortization periods for Inactive plans with existing periods that are deemed too long given the duration of the liability. In many cases, a Fresh Start approach with a 20 year closed period will be used. However, the specific demographics of the plan will be used to determine if periods shorter or longer than 20 years may be more appropriate.

**Asset Valuation Method**

It is the policy of the CalPERS Board of Administration to use professionally accepted amortization methods to eliminate a surplus or an unfunded accrued liability in a manner that maintains benefit security for the members of the System while minimizing substantial variations in required employer contributions. On April 17, 2013, the CalPERS Board of Administration approved a recommendation to change the CalPERS amortization and rate smoothing policies. Beginning with the June 30, 2013 valuations that set the employer contribution for Fiscal Year 2015-16, CalPERS employs a policy that amortizes all gains and losses over a fixed 30-year period. The increase or decrease in the rate is then spread directly over a 5-year period. This method is referred to as “direct rate smoothing.” CalPERS no longer uses an actuarial value of assets and only uses the market value of assets. The direct rate smoothing method is equivalent to a method using a 5 year asset smoothing period with no actuarial value of asset corridor and a 25-year amortization period for gains and losses.

**PEPRA Normal Cost Rate Methodology**

Per Government Code Section 7522.30(b) the “normal cost rate” shall mean the annual actuarially determined normal cost for the plan of retirement benefits provided to the new member and shall be established based on actuarial assumptions used to determine the liabilities and costs as part of the annual actuarial valuation. The plan of retirement benefits shall include any elements that would impact the actuarial determination of the normal cost, including, but not limited to, the retirement formula, eligibility and vesting criteria, ancillary benefit provisions, and any automatic cost-of-living adjustments as determined by the public retirement system.

Each non-pooled plan is considered to be stable with a sufficiently large demographic of actives. It is preferable to determine normal cost using a large active population ongoing so that this rate remains relatively stable. The total PEPRA normal cost will be calculated using all active members within a non-pooled plan. Accordingly, plans will be funded equally between employer and employee based on the demographics of the employees of that employer. As each non-pooled plan builds up to either 100+ active PEPRA members or half of their active population is under the PEPRA formula, the total PEPRA normal cost will be based on the active PEPRA population in the plan.

## Actuarial Assumptions

In 2014, CalPERS completed a 2-year asset liability management study incorporating actuarial assumptions and strategic asset allocation. On February 19, 2014, the CalPERS Board of Administration adopted relatively modest changes to the current asset allocation that will reduce the expected volatility of returns. The adopted asset allocation is expected to have a long-term blended return that continues to support a discount rate assumption of 7.5 percent. The Board also approved several changes to the demographic assumptions that more closely align with actual experience. The most significant of these is mortality improvement to acknowledge the greater life expectancies we are seeing in our membership and expected continued improvements. The new actuarial assumptions were first used in the June 30, 2014 valuation to set the Fiscal Year 2016-17 contribution for public agency employers. The increase in liability due to new actuarial assumptions is amortized over a 20-year period with a 5-year ramp-up/ramp-down in accordance with Board policy. These new actuarial assumptions are set forth in this section.

For more details and additional rationale for the selection of the actuarial assumptions, please refer to the CalPERS Experience Study and Review of Actuarial Assumptions report from January 2014 that can be found on the CalPERS website under: "Forms and Publications". Click on "View All" and search for Experience Study.

All actuarial assumptions (except the discount rates used for the hypothetical termination liability) represent an estimate of future experience rather than observations of the estimates inherent in market data.

### **Economic Assumptions**

#### **Discount Rate**

7.5 percent compounded annually (net of expenses). This assumption is used for all plans.

#### **Termination Liability Discount Rate**

The current discount rate assumption used for termination valuations is a weighted average of the 10-year and 30-year U.S. Treasury yields where the weights are based on matching asset and liability durations as of the termination date.

The hypothetical termination liabilities in this report are calculated using an observed range of market interest rates. This range is based on the lowest and highest 20-year Treasury bond observed during an approximate 2-year period centered around the valuation date. The 20-year Treasury bond has a similar duration to most plan liabilities and serves as a good proxy for the termination discount rate. The 20-year Treasury yield was 2.75 percent on June 30, 2015.

**Salary Growth**

Annual increases vary by category, entry age, and duration of service. A sample of assumed increases are shown below.

**Public Agency Miscellaneous**

Duration of Service	(Entry Age 20)	(Entry Age 30)	(Entry Age 40)
0	0.1220	0.1160	0.1020
1	0.0990	0.0940	0.0830
2	0.0860	0.0810	0.0710
3	0.0770	0.0720	0.0630
4	0.0700	0.0650	0.0570
5	0.0640	0.0600	0.0520
10	0.0460	0.0430	0.0390
15	0.0420	0.0400	0.0360
20	0.0390	0.0380	0.0340
25	0.0370	0.0360	0.0330
30	0.0350	0.0340	0.0320

**Public Agency Fire**

Duration of Service	(Entry Age 20)	(Entry Age 30)	(Entry Age 40)
0	0.2000	0.1980	0.1680
1	0.1490	0.1460	0.1250
2	0.1200	0.1160	0.0990
3	0.0980	0.0940	0.0810
4	0.0820	0.0780	0.0670
5	0.0690	0.0640	0.0550
10	0.0470	0.0460	0.0420
15	0.0440	0.0420	0.0390
20	0.0420	0.0390	0.0360
25	0.0400	0.0370	0.0340
30	0.0380	0.0360	0.0340

**Public Agency Police**

Duration of Service	(Entry Age 20)	(Entry Age 30)	(Entry Age 40)
0	0.1500	0.1470	0.1310
1	0.1160	0.1120	0.1010
2	0.0950	0.0920	0.0830
3	0.0810	0.0780	0.0700
4	0.0700	0.0670	0.0600
5	0.0610	0.0580	0.0520
10	0.0450	0.0430	0.0370
15	0.0450	0.0430	0.0370
20	0.0450	0.0430	0.0370
25	0.0450	0.0430	0.0370
30	0.0450	0.0430	0.0370

**Salary Growth** (continued)

<b>Public Agency County Peace Officers</b>			
Duration of Service	(Entry Age 20)	(Entry Age 30)	(Entry Age 40)
0	0.1770	0.1670	0.1500
1	0.1340	0.1260	0.1140
2	0.1080	0.1030	0.0940
3	0.0900	0.0860	0.0790
4	0.0760	0.0730	0.0670
5	0.0650	0.0620	0.0580
10	0.0470	0.0450	0.0410
15	0.0460	0.0450	0.0390
20	0.0460	0.0450	0.0380
25	0.0460	0.0450	0.0380
30	0.0460	0.0440	0.0380

<b>Schools</b>			
Duration of Service	(Entry Age 20)	(Entry Age 30)	(Entry Age 40)
0	0.0900	0.0880	0.0820
1	0.0780	0.0750	0.0700
2	0.0700	0.0680	0.0630
3	0.0650	0.0630	0.0580
4	0.0610	0.0590	0.0540
5	0.0580	0.0560	0.0510
10	0.0460	0.0450	0.0410
15	0.0420	0.0410	0.0380
20	0.0390	0.0380	0.0350
25	0.0370	0.0350	0.0330
30	0.0350	0.0330	0.0310

- The Miscellaneous salary scale is used for Local Prosecutors.
- The Police salary scale is used for Other Safety, Local Sheriff, and School Police.

**Overall Payroll Growth**

3.00 percent compounded annually (used in projecting the payroll over which the unfunded liability is amortized). This assumption is used for all plans.

**Inflation**

2.75 percent compounded annually. This assumption is used for all plans.

**Non-valued Potential Additional Liabilities**

The potential liability loss for a cost-of-living increase exceeding the 2.75 percent inflation assumption, and any potential liability loss from future member service purchases are not reflected in the valuation.

**Miscellaneous Loading Factors**

**Credit for Unused Sick Leave**

Total years of service is increased by 1 percent for those plans that have accepted the provision providing Credit for Unused Sick Leave.



**Conversion of Employer Paid Member Contributions (EPMC)**

Total years of service is increased by the Employee Contribution Rate for those plans with the provision providing for the Conversion of Employer Paid Member Contributions (EPMC) during the final compensation period.

**Norris Decision (Best Factors)**

Employees hired prior to July 1, 1982 have projected benefit amounts increased in order to reflect the use of "Best Factors" in the calculation of optional benefit forms. This is due to a 1983 Supreme Court decision, known as the Norris decision, which required males and females to be treated equally in the determination of benefit amounts. Consequently, anyone already employed at that time is given the best possible conversion factor when optional benefits are determined. No loading is necessary for employees hired after July 1, 1982.

**Termination Liability**

The termination liabilities include a 7 percent contingency load. This load is for unforeseen improvements in mortality.

**Demographic Assumptions**

**Pre-Retirement Mortality**

Non-industrial death rates vary by age and gender. Industrial death rates vary by age. See sample rates in table below. The non-industrial death rates are used for all plans. The industrial death rates are used for safety plans (except for Local Prosecutor safety members where the corresponding miscellaneous plan does not have the Industrial Death Benefit).

Age	Non-Industrial Death (Not Job-Related)		Industrial Death (Job-Related)
	Male	Female	Male and Female
20	0.00031	0.00020	0.00003
25	0.00040	0.00023	0.00007
30	0.00049	0.00025	0.00010
35	0.00057	0.00035	0.00012
40	0.00075	0.00050	0.00013
45	0.00106	0.00071	0.00014
50	0.00155	0.00100	0.00015
55	0.00228	0.00138	0.00016
60	0.00308	0.00182	0.00017
65	0.00400	0.00257	0.00018
70	0.00524	0.00367	0.00019
75	0.00713	0.00526	0.00020
80	0.00990	0.00814	0.00021

Miscellaneous plans usually have industrial death rates set to zero unless the agency has specifically contracted for industrial death benefits. If so, each non-industrial death rate shown above will be split into two components; 99 percent will become the non-industrial death rate and 1 percent will become the industrial death rate.

### Post-Retirement Mortality

Rates vary by age, type of retirement, and gender. See sample rates in table below. These rates are used for all plans.

Age	Healthy Recipients		Non-Industrially Disabled (Not Job-Related)		Industrially Disabled (Job-Related)	
	Male	Female	Male	Female	Male	Female
50	0.00501	0.00466	0.01680	0.01158	0.00501	0.00466
55	0.00599	0.00416	0.01973	0.01149	0.00599	0.00416
60	0.00710	0.00436	0.02289	0.01235	0.00754	0.00518
65	0.00829	0.00588	0.02451	0.01607	0.01122	0.00838
70	0.01305	0.00993	0.02875	0.02211	0.01635	0.01395
75	0.02205	0.01722	0.03990	0.03037	0.02834	0.02319
80	0.03899	0.02902	0.06083	0.04725	0.04899	0.03910
85	0.06969	0.05243	0.09731	0.07762	0.07679	0.06251
90	0.12974	0.09887	0.14804	0.12890	0.12974	0.09887
95	0.22444	0.18489	0.22444	0.21746	0.22444	0.18489
100	0.32536	0.30017	0.32536	0.30017	0.32536	0.30017
105	0.58527	0.56093	0.58527	0.56093	0.58527	0.56093
110	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

The post-retirement mortality rates above include 20 years of projected on-going mortality improvement using Scale BB published by the Society of Actuaries.

### Marital Status

For active members, a percentage who are married upon retirement is assumed according to member category as shown in the following table.

Member Category	Percent Married
Miscellaneous Member	85%
Local Police	90%
Local Fire	90%
Other Local Safety	90%
School Police	90%

### Age of Spouse

It is assumed that female spouses are 3 years younger than male spouses. This assumption is used for all plans.

### Terminated Members

It is assumed that terminated members refund immediately if non-vested. Terminated members who are vested are assumed to follow the same service retirement pattern as active members but with a load to reflect the expected higher rates of retirement, especially at lower ages. The following table shows the load factors that are applied to the service retirement assumption for active members to obtain the service retirement pattern for separated vested members:

Age	Load Factor Miscellaneous	Load Factor Safety
50	190%	310%
51	110%	190%
52	110%	105%
53 through 54	100%	105%
55	100%	140%
56 and above	100% (no change)	100% (no change)

### Termination with Refund

Rates vary by entry age and service for miscellaneous plans. Rates vary by service for safety plans. See sample rates in tables below.

**Public Agency Miscellaneous**

Duration of Service	Entry Age 20	Entry Age 25	Entry Age 30	Entry Age 35	Entry Age 40	Entry Age 45
0	0.1742	0.1674	0.1606	0.1537	0.1468	0.1400
1	0.1545	0.1477	0.1409	0.1339	0.1271	0.1203
2	0.1348	0.1280	0.1212	0.1142	0.1074	0.1006
3	0.1151	0.1083	0.1015	0.0945	0.0877	0.0809
4	0.0954	0.0886	0.0818	0.0748	0.0680	0.0612
5	0.0212	0.0193	0.0174	0.0155	0.0136	0.0116
10	0.0138	0.0121	0.0104	0.0088	0.0071	0.0055
15	0.0060	0.0051	0.0042	0.0032	0.0023	0.0014
20	0.0037	0.0029	0.0021	0.0013	0.0005	0.0001
25	0.0017	0.0011	0.0005	0.0001	0.0001	0.0001
30	0.0005	0.0001	0.0001	0.0001	0.0001	0.0001
35	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

**Public Agency Safety**

Duration of Service	Fire	Police	County Peace Officer
0	0.0710	0.1013	0.0997
1	0.0554	0.0636	0.0782
2	0.0398	0.0271	0.0566
3	0.0242	0.0258	0.0437
4	0.0218	0.0245	0.0414
5	0.0029	0.0086	0.0145
10	0.0009	0.0053	0.0089
15	0.0006	0.0027	0.0045
20	0.0005	0.0017	0.0020
25	0.0003	0.0012	0.0009
30	0.0003	0.0009	0.0006
35	0.0003	0.0009	0.0006

The police termination and refund rates are also used for Public Agency Local Prosecutors, Other Safety, Local Sheriff, and School Police.

**Schools**

Duration of Service	Entry Age 20	Entry Age 25	Entry Age 30	Entry Age 35	Entry Age 40	Entry Age 45
0	0.1730	0.1627	0.1525	0.1422	0.1319	0.1217
1	0.1585	0.1482	0.1379	0.1277	0.1174	0.1071
2	0.1440	0.1336	0.1234	0.1131	0.1028	0.0926
3	0.1295	0.1192	0.1089	0.0987	0.0884	0.0781
4	0.1149	0.1046	0.0944	0.0841	0.0738	0.0636
5	0.0278	0.0249	0.0221	0.0192	0.0164	0.0135
10	0.0172	0.0147	0.0122	0.0098	0.0074	0.0049
15	0.0115	0.0094	0.0074	0.0053	0.0032	0.0011
20	0.0073	0.0055	0.0038	0.0020	0.0002	0.0002
25	0.0037	0.0023	0.0010	0.0002	0.0002	0.0002
30	0.0015	0.0003	0.0002	0.0002	0.0002	0.0002
35	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002

**Termination with Vested Benefits**

Rates vary by entry age and service for miscellaneous plans. Rates vary by service for safety plans. See sample rates in tables below.

**Public Agency Miscellaneous**

Duration of Service	Entry Age 20	Entry Age 25	Entry Age 30	Entry Age 35	Entry Age 40
5	0.0656	0.0597	0.0537	0.0477	0.0418
10	0.0530	0.0466	0.0403	0.0339	0.0000
15	0.0443	0.0373	0.0305	0.0000	0.0000
20	0.0333	0.0261	0.0000	0.0000	0.0000
25	0.0212	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000	0.0000

**Public Agency Safety**

Duration of Service	Fire	Police	County Peace Officer
5	0.0162	0.0163	0.0265
10	0.0061	0.0126	0.0204
15	0.0058	0.0082	0.0130
20	0.0053	0.0065	0.0074
25	0.0047	0.0058	0.0043
30	0.0045	0.0056	0.0030
35	0.0000	0.0000	0.0000

- When a member is eligible to retire, the termination with vested benefits probability is set to zero.
- After termination with vested benefits, a miscellaneous member is assumed to retire at age 59 and a safety member at age 54.
- The Police termination with vested benefits rates are also used for Public Agency Local Prosecutors, Other Safety, Local Sheriff, and School Police.

**Schools**

Duration of Service	Entry Age 20	Entry Age 25	Entry Age 30	Entry Age 35	Entry Age 40
5	0.0816	0.0733	0.0649	0.0566	0.0482
10	0.0629	0.0540	0.0450	0.0359	0.0000
15	0.0537	0.0440	0.0344	0.0000	0.0000
20	0.0420	0.0317	0.0000	0.0000	0.0000
25	0.0291	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000	0.0000

### Non-Industrial (Not Job-Related) Disability

Rates vary by age and gender for miscellaneous plans. Rates vary by age and category for safety plans.

Age	Miscellaneous		Fire	Police	County Peace Officer	Schools	
	Male	Female	Male and Female	Male and Female	Male and Female	Male	Female
20	0.0002	0.0001	0.0001	0.0001	0.0001	0.0003	0.0003
25	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
30	0.0002	0.0002	0.0001	0.0002	0.0001	0.0001	0.0002
35	0.0005	0.0008	0.0001	0.0003	0.0004	0.0005	0.0004
40	0.0012	0.0016	0.0001	0.0004	0.0007	0.0015	0.0010
45	0.0019	0.0022	0.0002	0.0005	0.0013	0.0030	0.0019
50	0.0021	0.0023	0.0005	0.0008	0.0018	0.0039	0.0024
55	0.0022	0.0018	0.0010	0.0013	0.0010	0.0036	0.0021
60	0.0022	0.0014	0.0015	0.0020	0.0006	0.0031	0.0014

- The miscellaneous non-industrial disability rates are used for Local Prosecutors.
- The police non-industrial disability rates are also used for Other Safety, Local Sheriff, and School Police.

### Industrial (Job-Related) Disability

Rates vary by age and category.

Age	Fire	Police	County Peace Officer
20	0.0001	0.0000	0.0004
25	0.0003	0.0017	0.0013
30	0.0007	0.0048	0.0025
35	0.0016	0.0079	0.0037
40	0.0030	0.0110	0.0051
45	0.0053	0.0141	0.0067
50	0.0277	0.0185	0.0092
55	0.0409	0.0479	0.0151
60	0.0583	0.0602	0.0174

- The police industrial disability rates are also used for Local Sheriff and Other Safety.
- Fifty percent of the police industrial disability rates are used for School Police.
- One percent of the police industrial disability rates are used for Local Prosecutors.
- Normally, rates are zero for miscellaneous plans unless the agency has specifically contracted for industrial disability benefits. If so, each miscellaneous non-industrial disability rate will be split into two components: 50 percent will become the non-industrial disability rate and 50 percent will become the industrial disability rate.

### Service Retirement

Retirement rates vary by age, service, and formula, except for the safety ½ @ 55 and 2% @ 55 formulas, where retirement rates vary by age only.

**Service Retirement**

**Public Agency Miscellaneous 1.5% @ 65**

Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.008	0.011	0.013	0.015	0.017	0.019
51	0.007	0.010	0.012	0.013	0.015	0.017
52	0.010	0.014	0.017	0.019	0.021	0.024
53	0.008	0.012	0.015	0.017	0.019	0.022
54	0.012	0.016	0.019	0.022	0.025	0.028
55	0.018	0.025	0.031	0.035	0.038	0.043
56	0.015	0.021	0.025	0.029	0.032	0.036
57	0.020	0.028	0.033	0.038	0.043	0.048
58	0.024	0.033	0.040	0.046	0.052	0.058
59	0.028	0.039	0.048	0.054	0.060	0.067
60	0.049	0.069	0.083	0.094	0.105	0.118
61	0.062	0.087	0.106	0.120	0.133	0.150
62	0.104	0.146	0.177	0.200	0.223	0.251
63	0.099	0.139	0.169	0.191	0.213	0.239
64	0.097	0.136	0.165	0.186	0.209	0.233
65	0.140	0.197	0.240	0.271	0.302	0.339
66	0.092	0.130	0.157	0.177	0.198	0.222
67	0.129	0.181	0.220	0.249	0.277	0.311
68	0.092	0.129	0.156	0.177	0.197	0.221
69	0.092	0.130	0.158	0.178	0.199	0.224
70	0.103	0.144	0.175	0.198	0.221	0.248

**Public Agency Miscellaneous 2% @ 60**

Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.010	0.013	0.015	0.018	0.019	0.021
51	0.009	0.011	0.014	0.016	0.017	0.019
52	0.011	0.014	0.017	0.020	0.022	0.024
53	0.010	0.012	0.015	0.017	0.020	0.021
54	0.015	0.019	0.023	0.025	0.029	0.031
55	0.022	0.029	0.035	0.040	0.045	0.049
56	0.018	0.024	0.028	0.033	0.036	0.040
57	0.024	0.032	0.038	0.043	0.049	0.053
58	0.027	0.036	0.043	0.049	0.055	0.061
59	0.033	0.044	0.054	0.061	0.068	0.076
60	0.056	0.077	0.092	0.105	0.117	0.130
61	0.071	0.097	0.118	0.134	0.149	0.166
62	0.117	0.164	0.198	0.224	0.250	0.280
63	0.122	0.171	0.207	0.234	0.261	0.292
64	0.114	0.159	0.193	0.218	0.244	0.271
65	0.150	0.209	0.255	0.287	0.321	0.358
66	0.114	0.158	0.192	0.217	0.243	0.270
67	0.141	0.196	0.238	0.270	0.301	0.337
68	0.103	0.143	0.174	0.196	0.219	0.245
69	0.109	0.153	0.185	0.209	0.234	0.261
70	0.117	0.162	0.197	0.222	0.248	0.277

**Service Retirement**

**Public Agency Miscellaneous 2% @ 55**

Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.014	0.018	0.021	0.025	0.027	0.031
51	0.012	0.014	0.017	0.020	0.021	0.025
52	0.013	0.017	0.019	0.023	0.025	0.028
53	0.015	0.020	0.023	0.027	0.030	0.034
54	0.026	0.033	0.038	0.045	0.051	0.059
55	0.048	0.061	0.074	0.088	0.100	0.117
56	0.042	0.053	0.063	0.075	0.085	0.100
57	0.044	0.056	0.067	0.081	0.091	0.107
58	0.049	0.062	0.074	0.089	0.100	0.118
59	0.057	0.072	0.086	0.103	0.118	0.138
60	0.067	0.086	0.103	0.123	0.139	0.164
61	0.081	0.103	0.124	0.148	0.168	0.199
62	0.116	0.147	0.178	0.214	0.243	0.288
63	0.114	0.144	0.174	0.208	0.237	0.281
64	0.108	0.138	0.166	0.199	0.227	0.268
65	0.155	0.197	0.238	0.285	0.325	0.386
66	0.132	0.168	0.203	0.243	0.276	0.328
67	0.122	0.155	0.189	0.225	0.256	0.304
68	0.111	0.141	0.170	0.204	0.232	0.274
69	0.114	0.144	0.174	0.209	0.238	0.282
70	0.130	0.165	0.200	0.240	0.272	0.323

**Public Agency Miscellaneous 2.5% @ 55**

Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.004	0.009	0.019	0.029	0.049	0.094
51	0.004	0.009	0.019	0.029	0.049	0.094
52	0.004	0.009	0.020	0.030	0.050	0.095
53	0.008	0.014	0.025	0.036	0.058	0.104
54	0.024	0.034	0.050	0.066	0.091	0.142
55	0.066	0.088	0.115	0.142	0.179	0.241
56	0.042	0.057	0.078	0.098	0.128	0.184
57	0.041	0.057	0.077	0.097	0.128	0.183
58	0.045	0.061	0.083	0.104	0.136	0.192
59	0.055	0.074	0.098	0.123	0.157	0.216
60	0.066	0.088	0.115	0.142	0.179	0.241
61	0.072	0.095	0.124	0.153	0.191	0.255
62	0.099	0.130	0.166	0.202	0.248	0.319
63	0.092	0.121	0.155	0.189	0.233	0.302
64	0.091	0.119	0.153	0.187	0.231	0.299
65	0.122	0.160	0.202	0.245	0.297	0.374
66	0.138	0.179	0.226	0.272	0.329	0.411
67	0.114	0.149	0.189	0.229	0.279	0.354
68	0.100	0.131	0.168	0.204	0.250	0.322
69	0.114	0.149	0.189	0.229	0.279	0.354
70	0.127	0.165	0.209	0.253	0.306	0.385

**Service Retirement**

**Public Agency Miscellaneous 2.7% @ 55**

Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.004	0.009	0.014	0.035	0.055	0.095
51	0.002	0.006	0.011	0.030	0.050	0.090
52	0.006	0.012	0.017	0.038	0.059	0.099
53	0.010	0.017	0.024	0.046	0.068	0.110
54	0.032	0.044	0.057	0.085	0.113	0.160
55	0.076	0.101	0.125	0.165	0.205	0.265
56	0.055	0.074	0.093	0.127	0.160	0.214
57	0.050	0.068	0.086	0.118	0.151	0.204
58	0.055	0.074	0.093	0.127	0.161	0.215
59	0.061	0.082	0.102	0.138	0.174	0.229
60	0.069	0.093	0.116	0.154	0.192	0.250
61	0.086	0.113	0.141	0.183	0.225	0.288
62	0.105	0.138	0.171	0.218	0.266	0.334
63	0.103	0.135	0.167	0.215	0.262	0.329
64	0.109	0.143	0.177	0.226	0.275	0.344
65	0.134	0.174	0.215	0.270	0.326	0.401
66	0.147	0.191	0.235	0.294	0.354	0.433
67	0.121	0.158	0.196	0.248	0.300	0.372
68	0.113	0.147	0.182	0.232	0.282	0.352
69	0.117	0.153	0.189	0.240	0.291	0.362
70	0.141	0.183	0.226	0.283	0.341	0.418

**Public Agency Miscellaneous 3% @ 60**

Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.012	0.018	0.024	0.039	0.040	0.091
51	0.009	0.014	0.019	0.034	0.034	0.084
52	0.014	0.020	0.026	0.043	0.044	0.096
53	0.016	0.023	0.031	0.048	0.050	0.102
54	0.026	0.036	0.045	0.065	0.070	0.125
55	0.043	0.057	0.072	0.096	0.105	0.165
56	0.042	0.056	0.070	0.094	0.103	0.162
57	0.049	0.065	0.082	0.108	0.119	0.180
58	0.057	0.076	0.094	0.122	0.136	0.199
59	0.076	0.100	0.123	0.157	0.175	0.244
60	0.114	0.148	0.182	0.226	0.255	0.334
61	0.095	0.123	0.152	0.190	0.214	0.288
62	0.133	0.172	0.211	0.260	0.294	0.378
63	0.129	0.166	0.204	0.252	0.285	0.368
64	0.143	0.185	0.226	0.278	0.315	0.401
65	0.202	0.260	0.318	0.386	0.439	0.542
66	0.177	0.228	0.279	0.340	0.386	0.482
67	0.151	0.194	0.238	0.292	0.331	0.420
68	0.139	0.179	0.220	0.270	0.306	0.391
69	0.190	0.245	0.299	0.364	0.414	0.513
70	0.140	0.182	0.223	0.274	0.310	0.396



**Service Retirement**

<b>Public Agency Miscellaneous 2% @ 62</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.000	0.000	0.000	0.000	0.000	0.000
51	0.000	0.000	0.000	0.000	0.000	0.000
52	0.010	0.013	0.016	0.019	0.022	0.024
53	0.013	0.017	0.020	0.024	0.027	0.031
54	0.021	0.027	0.033	0.039	0.045	0.050
55	0.044	0.056	0.068	0.080	0.092	0.104
56	0.030	0.039	0.047	0.055	0.063	0.072
57	0.036	0.046	0.056	0.066	0.076	0.086
58	0.046	0.059	0.072	0.085	0.097	0.110
59	0.058	0.074	0.089	0.105	0.121	0.137
60	0.062	0.078	0.095	0.112	0.129	0.146
61	0.062	0.079	0.096	0.113	0.129	0.146
62	0.097	0.123	0.150	0.176	0.202	0.229
63	0.089	0.113	0.137	0.162	0.186	0.210
64	0.094	0.120	0.145	0.171	0.197	0.222
65	0.129	0.164	0.199	0.234	0.269	0.304
66	0.105	0.133	0.162	0.190	0.219	0.247
67	0.105	0.133	0.162	0.190	0.219	0.247
68	0.105	0.133	0.162	0.190	0.219	0.247
69	0.105	0.133	0.162	0.190	0.219	0.247
70	0.125	0.160	0.194	0.228	0.262	0.296

**Service Retirement**

<b>Public Agency Fire ½ @ 55 and 2% @ 55</b>			
Age	Rate	Age	Rate
50	0.0159	56	0.1108
51	0.0000	57	0.0000
52	0.0344	58	0.0950
53	0.0199	59	0.0441
54	0.0413	60	1.00000
55	0.0751		

<b>Public Agency Police ½ @ 55 and 2% @ 55</b>			
Age	Rate	Age	Rate
50	0.0255	56	0.0692
51	0.0000	57	0.0511
52	0.0164	58	0.0724
53	0.0272	59	0.0704
54	0.0095	60	1.0000
55	0.1667		

**Service Retirement**

<b>Public Agency Police 2% @ 50</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.005	0.005	0.005	0.005	0.017	0.089
51	0.005	0.005	0.005	0.005	0.017	0.087
52	0.018	0.018	0.018	0.018	0.042	0.132
53	0.044	0.044	0.044	0.044	0.090	0.217
54	0.065	0.065	0.065	0.065	0.126	0.283
55	0.086	0.086	0.086	0.086	0.166	0.354
56	0.067	0.067	0.067	0.067	0.130	0.289
57	0.066	0.066	0.066	0.066	0.129	0.288
58	0.066	0.066	0.066	0.066	0.129	0.288
59	0.139	0.139	0.139	0.139	0.176	0.312
60	0.123	0.123	0.123	0.123	0.153	0.278
61	0.110	0.110	0.110	0.110	0.138	0.256
62	0.130	0.130	0.130	0.130	0.162	0.291
63	0.130	0.130	0.130	0.130	0.162	0.291
64	0.130	0.130	0.130	0.130	0.162	0.291
65	1.000	1.000	1.000	1.000	1.000	1.000

- These rates also apply to Local Prosecutors, Local Sheriff, School Police, and Other Safety.

**Service Retirement**

<b>Public Agency Fire 2% @ 50</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.009	0.009	0.009	0.009	0.013	0.020
51	0.013	0.013	0.013	0.013	0.020	0.029
52	0.018	0.018	0.018	0.018	0.028	0.042
53	0.052	0.052	0.052	0.052	0.079	0.119
54	0.067	0.067	0.067	0.067	0.103	0.154
55	0.089	0.089	0.089	0.089	0.136	0.204
56	0.083	0.083	0.083	0.083	0.127	0.190
57	0.082	0.082	0.082	0.082	0.126	0.189
58	0.088	0.088	0.088	0.088	0.136	0.204
59	0.074	0.074	0.074	0.074	0.113	0.170
60	0.100	0.100	0.100	0.100	0.154	0.230
61	0.072	0.072	0.072	0.072	0.110	0.165
62	0.099	0.099	0.099	0.099	0.152	0.228
63	0.114	0.114	0.114	0.114	0.175	0.262
64	0.114	0.114	0.114	0.114	0.175	0.262
65	1.000	1.000	1.000	1.000	1.000	1.000

**Service Retirement**

<b>Public Agency Police 3% @ 55</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.004	0.004	0.004	0.004	0.015	0.086
51	0.014	0.014	0.014	0.014	0.034	0.114
52	0.026	0.026	0.026	0.026	0.060	0.154
53	0.038	0.038	0.038	0.038	0.083	0.188
54	0.071	0.071	0.071	0.071	0.151	0.292
55	0.061	0.061	0.061	0.061	0.131	0.261
56	0.072	0.072	0.072	0.072	0.153	0.295
57	0.065	0.065	0.065	0.065	0.140	0.273
58	0.066	0.066	0.066	0.066	0.142	0.277
59	0.118	0.118	0.118	0.118	0.247	0.437
60	0.065	0.065	0.065	0.065	0.138	0.272
61	0.084	0.084	0.084	0.084	0.178	0.332
62	0.108	0.108	0.108	0.108	0.226	0.405
63	0.084	0.084	0.084	0.084	0.178	0.332
64	0.084	0.084	0.084	0.084	0.178	0.332
65	1.000	1.000	1.000	1.000	1.000	1.000

- These rates also apply to Local Prosecutors, Local Sheriff, School Police, and Other Safety.

**Service Retirement**

<b>Public Agency Fire 3% @ 55</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.001	0.001	0.001	0.006	0.016	0.069
51	0.002	0.002	0.002	0.006	0.018	0.071
52	0.012	0.012	0.012	0.021	0.040	0.098
53	0.032	0.032	0.032	0.049	0.085	0.149
54	0.057	0.057	0.057	0.087	0.144	0.217
55	0.073	0.073	0.073	0.109	0.179	0.259
56	0.064	0.064	0.064	0.097	0.161	0.238
57	0.063	0.063	0.063	0.095	0.157	0.233
58	0.065	0.065	0.065	0.099	0.163	0.241
59	0.088	0.088	0.088	0.131	0.213	0.299
60	0.105	0.105	0.105	0.155	0.251	0.344
61	0.118	0.118	0.118	0.175	0.282	0.380
62	0.087	0.087	0.087	0.128	0.210	0.295
63	0.067	0.067	0.067	0.100	0.165	0.243
64	0.067	0.067	0.067	0.100	0.165	0.243
65	1.000	1.000	1.000	1.000	1.000	1.000

**Service Retirement**

<b>Public Agency Police 3% @ 50</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.050	0.050	0.050	0.099	0.240	0.314
51	0.034	0.034	0.034	0.072	0.198	0.260
52	0.033	0.033	0.033	0.071	0.198	0.259
53	0.039	0.039	0.039	0.080	0.212	0.277
54	0.045	0.045	0.045	0.092	0.229	0.300
55	0.052	0.052	0.052	0.105	0.248	0.323
56	0.042	0.042	0.042	0.087	0.221	0.289
57	0.043	0.043	0.043	0.088	0.223	0.292
58	0.054	0.054	0.054	0.109	0.255	0.333
59	0.054	0.054	0.054	0.108	0.253	0.330
60	0.060	0.060	0.060	0.121	0.272	0.355
61	0.048	0.048	0.048	0.098	0.238	0.311
62	0.061	0.061	0.061	0.122	0.274	0.357
63	0.057	0.057	0.057	0.115	0.263	0.343
64	0.069	0.069	0.069	0.137	0.296	0.385
65	1.000	1.000	1.000	1.000	1.000	1.000

- These rates also apply to Local Prosecutors, Local Sheriff, School Police, and Other Safety.

**Service Retirement**

<b>Public Agency Fire 3% @ 50</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.020	0.020	0.020	0.040	0.130	0.192
51	0.008	0.008	0.008	0.023	0.107	0.164
52	0.023	0.023	0.023	0.043	0.136	0.198
53	0.023	0.023	0.023	0.043	0.135	0.198
54	0.027	0.027	0.027	0.048	0.143	0.207
55	0.043	0.043	0.043	0.070	0.174	0.244
56	0.053	0.053	0.053	0.085	0.196	0.269
57	0.054	0.054	0.054	0.086	0.197	0.271
58	0.052	0.052	0.052	0.084	0.193	0.268
59	0.075	0.075	0.075	0.116	0.239	0.321
60	0.065	0.065	0.065	0.102	0.219	0.298
61	0.076	0.076	0.076	0.117	0.241	0.324
62	0.068	0.068	0.068	0.106	0.224	0.304
63	0.027	0.027	0.027	0.049	0.143	0.208
64	0.094	0.094	0.094	0.143	0.277	0.366
65	1.000	1.000	1.000	1.000	1.000	1.000

**Service Retirement**

<b>Public Agency Police 2% @ 57</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.011	0.011	0.011	0.011	0.020	0.036
51	0.009	0.009	0.009	0.009	0.016	0.028
52	0.018	0.018	0.018	0.018	0.034	0.060
53	0.037	0.037	0.037	0.037	0.067	0.119
54	0.049	0.049	0.049	0.049	0.089	0.159
55	0.063	0.063	0.063	0.063	0.115	0.205
56	0.045	0.045	0.045	0.045	0.082	0.146
57	0.064	0.064	0.064	0.064	0.117	0.209
58	0.047	0.047	0.047	0.047	0.086	0.154
59	0.105	0.105	0.105	0.105	0.130	0.191
60	0.105	0.105	0.105	0.105	0.129	0.188
61	0.105	0.105	0.105	0.105	0.129	0.188
62	0.105	0.105	0.105	0.105	0.129	0.188
63	0.105	0.105	0.105	0.105	0.129	0.188
64	0.105	0.105	0.105	0.105	0.129	0.188
65	1.000	1.000	1.000	1.000	1.000	1.000

- These rates also apply to Local Prosecutors, Local Sheriff, School Police, and Other Safety.

**Service Retirement**

<b>Public Agency Fire 2% @ 57</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.005	0.005	0.005	0.005	0.008	0.012
51	0.006	0.006	0.006	0.006	0.009	0.013
52	0.012	0.012	0.012	0.012	0.019	0.028
53	0.033	0.033	0.033	0.033	0.050	0.075
54	0.045	0.045	0.045	0.045	0.069	0.103
55	0.061	0.061	0.061	0.061	0.094	0.140
56	0.055	0.055	0.055	0.055	0.084	0.126
57	0.081	0.081	0.081	0.081	0.125	0.187
58	0.059	0.059	0.059	0.059	0.091	0.137
59	0.055	0.055	0.055	0.055	0.084	0.126
60	0.085	0.085	0.085	0.085	0.131	0.196
61	0.085	0.085	0.085	0.085	0.131	0.196
62	0.085	0.085	0.085	0.085	0.131	0.196
63	0.085	0.085	0.085	0.085	0.131	0.196
64	0.085	0.085	0.085	0.085	0.131	0.196
65	1.000	1.000	1.000	1.000	1.000	1.000

**Service Retirement**

<b>Public Agency Police 2.5% @ 57</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.014	0.014	0.014	0.014	0.025	0.045
51	0.012	0.012	0.012	0.012	0.021	0.038
52	0.025	0.025	0.025	0.025	0.046	0.081
53	0.047	0.047	0.047	0.047	0.086	0.154
54	0.063	0.063	0.063	0.063	0.115	0.205
55	0.076	0.076	0.076	0.076	0.140	0.249
56	0.054	0.054	0.054	0.054	0.099	0.177
57	0.071	0.071	0.071	0.071	0.130	0.232
58	0.057	0.057	0.057	0.057	0.103	0.184
59	0.126	0.126	0.126	0.126	0.156	0.229
60	0.126	0.126	0.126	0.126	0.155	0.226
61	0.126	0.126	0.126	0.126	0.155	0.226
62	0.126	0.126	0.126	0.126	0.155	0.226
63	0.126	0.126	0.126	0.126	0.155	0.226
64	0.126	0.126	0.126	0.126	0.155	0.226
65	1.000	1.000	1.000	1.000	1.000	1.000

- These rates also apply to Local Prosecutors, Local Sheriff, School Police, and Other Safety.

**Service Retirement**

<b>Public Agency Fire 2.5% @ 57</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.007	0.007	0.007	0.007	0.010	0.015
51	0.008	0.008	0.008	0.008	0.012	0.018
52	0.016	0.016	0.016	0.016	0.025	0.038
53	0.042	0.042	0.042	0.042	0.064	0.096
54	0.057	0.057	0.057	0.057	0.088	0.132
55	0.074	0.074	0.074	0.074	0.114	0.170
56	0.066	0.066	0.066	0.066	0.102	0.153
57	0.090	0.090	0.090	0.090	0.139	0.208
58	0.071	0.071	0.071	0.071	0.110	0.164
59	0.066	0.066	0.066	0.066	0.101	0.151
60	0.102	0.102	0.102	0.102	0.157	0.235
61	0.102	0.102	0.102	0.102	0.157	0.236
62	0.102	0.102	0.102	0.102	0.157	0.236
63	0.102	0.102	0.102	0.102	0.157	0.236
64	0.102	0.102	0.102	0.102	0.157	0.236
65	1.000	1.000	1.000	1.000	1.000	1.000

**Service Retirement**

<b>Public Agency Police 2.7% @ 57</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.0138	0.0138	0.0138	0.0138	0.0253	0.0451
51	0.0123	0.0123	0.0123	0.0123	0.0226	0.0402
52	0.0249	0.0249	0.0249	0.0249	0.0456	0.0812
53	0.0497	0.0497	0.0497	0.0497	0.0909	0.1621
54	0.0662	0.0662	0.0662	0.0662	0.1211	0.2160
55	0.0854	0.0854	0.0854	0.0854	0.1563	0.2785
56	0.0606	0.0606	0.0606	0.0606	0.1108	0.1975
57	0.0711	0.0711	0.0711	0.0711	0.1300	0.2318
58	0.0628	0.0628	0.0628	0.0628	0.1149	0.2049
59	0.1396	0.1396	0.1396	0.1396	0.1735	0.2544
60	0.1396	0.1396	0.1396	0.1396	0.1719	0.2506
61	0.1396	0.1396	0.1396	0.1396	0.1719	0.2506
62	0.1396	0.1396	0.1396	0.1396	0.1719	0.2506
63	0.1396	0.1396	0.1396	0.1396	0.1719	0.2506
64	0.1396	0.1396	0.1396	0.1396	0.1719	0.2506
65	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

- These rates also apply to Local Prosecutors, Local Sheriff, School Police, and Other Safety.

**Service Retirement**

<b>Public Agency Fire 2.7% @ 57</b>						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.0065	0.0065	0.0065	0.0065	0.0101	0.0151
51	0.0081	0.0081	0.0081	0.0081	0.0125	0.0187
52	0.0164	0.0164	0.0164	0.0164	0.0254	0.0380
53	0.0442	0.0442	0.0442	0.0442	0.0680	0.1018
54	0.0606	0.0606	0.0606	0.0606	0.0934	0.1397
55	0.0825	0.0825	0.0825	0.0825	0.1269	0.1900
56	0.0740	0.0740	0.0740	0.0740	0.1140	0.1706
57	0.0901	0.0901	0.0901	0.0901	0.1387	0.2077
58	0.0790	0.0790	0.0790	0.0790	0.1217	0.1821
59	0.0729	0.0729	0.0729	0.0729	0.1123	0.1681
60	0.1135	0.1135	0.1135	0.1135	0.1747	0.2615
61	0.1136	0.1136	0.1136	0.1136	0.1749	0.2618
62	0.1136	0.1136	0.1136	0.1136	0.1749	0.2618
63	0.1136	0.1136	0.1136	0.1136	0.1749	0.2618
64	0.1136	0.1136	0.1136	0.1136	0.1749	0.2618
65	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

## Service Retirement

Schools 2% @ 55						
Age	Duration of Service					
	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.005	0.009	0.013	0.015	0.016	0.018
51	0.005	0.010	0.014	0.017	0.019	0.021
52	0.006	0.012	0.017	0.020	0.022	0.025
53	0.007	0.014	0.019	0.023	0.026	0.029
54	0.012	0.024	0.033	0.039	0.044	0.049
55	0.024	0.048	0.067	0.079	0.088	0.099
56	0.020	0.039	0.055	0.065	0.072	0.081
57	0.021	0.042	0.059	0.070	0.078	0.087
58	0.025	0.050	0.070	0.083	0.092	0.103
59	0.029	0.057	0.080	0.095	0.105	0.118
60	0.037	0.073	0.102	0.121	0.134	0.150
61	0.046	0.090	0.126	0.149	0.166	0.186
62	0.076	0.151	0.212	0.250	0.278	0.311
63	0.069	0.136	0.191	0.225	0.251	0.281
64	0.067	0.133	0.185	0.219	0.244	0.273
65	0.091	0.180	0.251	0.297	0.331	0.370
66	0.072	0.143	0.200	0.237	0.264	0.295
67	0.067	0.132	0.185	0.218	0.243	0.272
68	0.060	0.118	0.165	0.195	0.217	0.243
69	0.067	0.133	0.187	0.220	0.246	0.275
70	0.066	0.131	0.183	0.216	0.241	0.270

## Miscellaneous

### Internal Revenue Code Section 415

The limitations on benefits imposed by Internal Revenue Code Section 415 are taken into account in this valuation. Each year the impact of any changes in this limitation since the prior valuation is included and amortized as part of the actuarial gain or loss base. This results in lower contributions for those employers contributing to the Replacement Benefit Fund and protects CalPERS from prefunding expected benefits in excess of limits imposed by federal tax law.

### Internal Revenue Code Section 401(a)(17)

The limitations on compensation imposed by Internal Revenue Code Section 401(a)(17) are taken into account in this valuation. Each year, the impact of any changes in the compensation limitation since the prior valuation is included and amortized as part of the actuarial gain or loss base. The compensation limit for classic members for the 2015 calendar year is \$265,000.



## **APPENDIX B**

### **PRINCIPAL PLAN PROVISIONS**

The following is a description of the principal plan provisions used in calculating costs and liabilities. We have indicated whether a plan provision is standard or optional. Standard benefits are applicable to all members while optional benefits vary among employers. Optional benefits that apply to a single period of time, such as Golden Handshakes, have not been included. Many of the statements in this summary are general in nature, and are intended to provide an easily understood summary of the Public Employees' Retirement Law. The law itself governs in all situations.

## Service Retirement

### Eligibility

A classic CalPERS member or PEPRSA Safety member becomes eligible for Service Retirement upon attainment of age 50 with at least 5 years of credited service (total service across all CalPERS employers, and with certain other retirement systems with which CalPERS has reciprocity agreements). For employees hired into a plan with the 1.5 percent at 65 formula, eligibility for service retirement is age 55 with at least 5 years of service. PEPRSA miscellaneous members become eligible for service retirement upon attainment of age 52 with at least 5 years of service.

### Benefit

The service retirement benefit is a monthly allowance equal to the product of the *benefit factor*, *years of service*, and *final compensation*.

- The *benefit factor* depends on the benefit formula specified in your agency's contract. The table below shows the factors for each of the available formulas. Factors vary by the member's age at retirement. Listed are the factors for retirement at whole year ages:

### Miscellaneous Plan Formulas

Retirement Age	1.5% at 65	2% at 60	2% at 55	2.5% at 55	2.7% at 55	3% at 60	PEPRSA 2% at 62
50	0.5000%	1.092%	1.426%	2.000%	2.000%	2.000%	N/A
51	0.5667%	1.156%	1.522%	2.100%	2.140%	2.100%	N/A
52	0.6334%	1.224%	1.628%	2.200%	2.280%	2.200%	1.000%
53	0.7000%	1.296%	1.742%	2.300%	2.420%	2.300%	1.100%
54	0.7667%	1.376%	1.866%	2.400%	2.560%	2.400%	1.200%
55	0.8334%	1.460%	2.000%	2.500%	2.700%	2.500%	1.300%
56	0.9000%	1.552%	2.052%	2.500%	2.700%	2.600%	1.400%
57	0.9667%	1.650%	2.104%	2.500%	2.700%	2.700%	1.500%
58	1.0334%	1.758%	2.156%	2.500%	2.700%	2.800%	1.600%
59	1.1000%	1.874%	2.210%	2.500%	2.700%	2.900%	1.700%
60	1.1667%	2.000%	2.262%	2.500%	2.700%	3.000%	1.800%
61	1.2334%	2.134%	2.314%	2.500%	2.700%	3.000%	1.900%
62	1.3000%	2.272%	2.366%	2.500%	2.700%	3.000%	2.000%
63	1.3667%	2.418%	2.418%	2.500%	2.700%	3.000%	2.100%
64	1.4334%	2.418%	2.418%	2.500%	2.700%	3.000%	2.200%
65	1.5000%	2.418%	2.418%	2.500%	2.700%	3.000%	2.300%
66	1.5000%	2.418%	2.418%	2.500%	2.700%	3.000%	2.400%
67 & up	1.5000%	2.418%	2.418%	2.500%	2.700%	3.000%	2.500%

**Safety Plan Formulas**

Retirement Age	½ at 55 *	2% at 55	2% at 50	3% at 55	3% at 50
50	1.783%	1.426%	2.000%	2.400%	3.000%
51	1.903%	1.522%	2.140%	2.520%	3.000%
52	2.035%	1.628%	2.280%	2.640%	3.000%
53	2.178%	1.742%	2.420%	2.760%	3.000%
54	2.333%	1.866%	2.560%	2.880%	3.000%
55 & Up	2.500%	2.000%	2.700%	3.000%	3.000%

\* For this formula, the benefit factor also varies by entry age. The factors shown are for members with an entry age of 35 or greater. If entry age is less than 35, then the age 55 benefit factor is 50 percent divided by the difference between age 55 and entry age. The benefit factor for ages prior to age 55 is the same proportion of the age 55 benefit factor as in the above table.

**PEPRA Safety Plan Formulas**

Retirement Age	2% at 57	2.5% at 57	2.7% at 57
50	1.426%	2.000%	2.000%
51	1.508%	2.071%	2.100%
52	1.590%	2.143%	2.200%
53	1.672%	2.214%	2.300%
54	1.754%	2.286%	2.400%
55	1.836%	2.357%	2.500%
56	1.918%	2.429%	2.600%
57 & Up	2.000%	2.500%	2.700%

- The *years of service* is the amount credited by CalPERS to a member while he or she is employed in this group (or for other periods that are recognized under the employer's contract with CalPERS). For a member who has earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance. An agency may contract for an optional benefit where any unused sick leave accumulated at the time of retirement will be converted to credited service at a rate of 0.004 years of service for each day of sick leave.
- The *final compensation* is the monthly average of the member's highest 36 or 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this compensation). The standard benefit is 36 months. Employers had the option of providing a final compensation equal to the highest 12 consecutive months for classic plans only. Final compensation must be defined by the highest 36 consecutive months' pay under the 1.5% at 65 formula. PEPRA members have a cap on the annual salary that can be used to calculate final compensation for all new members based on the Social Security contribution and benefit base. For employees that participate in Social Security this cap is \$117,020 for 2015 and for those employees that do not participate in Social Security the cap for 2015 is \$140,424. Adjustments to the caps are permitted annually based on changes to the CPI for all urban consumers.
- Employees must be covered by Social Security with the 1.5% at 65 formula. Social Security is optional for all other benefit formulas. For employees covered by Social Security, the modified formula is the standard benefit. Under this type of formula, the final compensation is offset by \$133.33 (or by one third if the final compensation is less than \$400). Employers may contract for the full benefit with Social Security that will eliminate the offset applicable to the final compensation. For employees not covered by Social Security, the full benefit is paid with

no offsets. Auxiliary organizations of the CSUC system may elect reduced contribution rates, in which case the offset is \$317 if members are not covered by Social Security or \$513 if members are covered by Social Security.

- The miscellaneous and PEPRSA safety service retirement benefit is not capped. The classic service retirement benefit is capped at 90 percent of final compensation.

## Vested Deferred Retirement

### Eligibility for Deferred Status

A CalPERS member becomes eligible for a deferred vested retirement benefit when he or she leaves employment, keeps his or her contribution account balance on deposit with CalPERS, **and** has earned at least 5 years of credited service (total service across all CalPERS employers, and with certain other retirement systems with which CalPERS has reciprocity agreements).

### Eligibility to Start Receiving Benefits

The CalPERS classic members and PEPRSA safety members become eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for deferred status and upon attainment of age 50 (55 for employees hired into a 1.5% @ 65 plan). PEPRSA miscellaneous members become eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for deferred status and upon attainment of age 52.

### Benefit

The vested deferred retirement benefit is the same as the service retirement benefit, where the benefit factor is based on the member's age at allowance commencement. For members who have earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance.

## Non-Industrial (Non-Job Related) Disability Retirement

### Eligibility

A CalPERS member is eligible for Non-Industrial Disability Retirement if he or she becomes *disabled* and has at least 5 years of credited service (total service across all CalPERS employers, and with certain other retirement systems with which CalPERS has reciprocity agreements). There is no special age requirement. *Disabled* means the member is unable to perform his or her job because of an illness or injury, which is expected to be permanent or to last indefinitely. The illness or injury does not have to be job related. A CalPERS member must be actively employed by any CalPERS employer at the time of disability in order to be eligible for this benefit.

### Standard Benefit

The standard Non-Industrial Disability Retirement benefit is a monthly allowance equal to 1.8 percent of final compensation, multiplied by *service*, which is determined as follows:

- *Service* is CalPERS credited service, for members with less than 10 years of service or greater than 18.518 years of service; or
- *Service* is CalPERS credited service plus the additional number of years that the member would have worked until age 60, for members with at least 10 years but not more than 18.518 years of service. The maximum benefit in this case is 33 1/3 percent of final compensation.

### **Improved Benefit**

Employers have the option of providing the improved Non-Industrial Disability Retirement benefit. This benefit provides a monthly allowance equal to 30 percent of final compensation for the first 5 years of service, plus 1 percent for each additional year of service to a maximum of 50 percent of final compensation.

Members who are eligible for a larger service retirement benefit may choose to receive that benefit in lieu of a disability benefit. Members eligible to retire, and who have attained the normal retirement age determined by their service retirement benefit formula, will receive the same dollar amount for disability retirement as that payable for service retirement. For members who have earned service with multiple CalPERS employers, the benefit attributed to each employer is the total disability allowance multiplied by the ratio of service with a particular employer to the total CalPERS service.

## **Industrial (Job Related) Disability Retirement**

All safety members have this benefit. For miscellaneous members, employers have the option of providing this benefit. An employer may choose to provide the increased benefit option or the improved benefit option.

### **Eligibility**

An employee is eligible for Industrial Disability Retirement if he or she becomes disabled while working, where disabled means the member is unable to perform the duties of the job because of a work-related illness or injury, which is expected to be permanent or to last indefinitely. A CalPERS member who has left active employment within this group is not eligible for this benefit, except to the extent described below.

### **Standard Benefit**

The standard Industrial Disability Retirement benefit is a monthly allowance equal to 50 percent of final compensation.

### **Increased Benefit (75 percent of Final Compensation)**

The increased Industrial Disability Retirement benefit is a monthly allowance equal to 75 percent final compensation for total disability.

### **Improved Benefit (50 percent to 90 percent of Final Compensation)**

The improved Industrial Disability Retirement benefit is a monthly allowance equal to the Workman's Compensation Appeals Board permanent disability rate percentage (if 50 percent or greater, with a maximum of 90 percent) times the final compensation.

For a CalPERS member not actively employed in this group who became disabled while employed by some other CalPERS employer, the benefit is a return of accumulated member contributions with respect to employment in this group. With the standard or increased benefit, a member may also choose to receive the annuitization of the accumulated member contributions.

If a member is eligible for service retirement and if the service retirement benefit is more than the industrial disability retirement benefit, the member may choose to receive the larger benefit.

## **Post-Retirement Death Benefit**

### **Standard Lump Sum Payment**

Upon the death of a retiree, a one-time lump sum payment of \$500 will be made to the retiree's designated survivor(s), or to the retiree's estate.

### **Improved Lump Sum Payment**

Employers have the option of providing an improved lump sum death benefit of \$600, \$2,000, \$3,000, \$4,000 or \$5,000.

## **Form of Payment for Retirement Allowance**

### **Standard Form of Payment**

Generally, the retirement allowance is paid to the retiree in the form of an annuity for as long as he or she is alive. The retiree may choose to provide for a portion of his or her allowance to be paid to any designated beneficiary after the retiree's death. CalPERS provides for a variety of such benefit options, which the retiree pays for by taking a reduction in his or her retirement allowance. Such reduction takes into account the amount to be provided to the beneficiary and the probable duration of payments (based on the ages of the member and beneficiary) made subsequent to the member's death.

### **Improved Form of Payment (Post-Retirement Survivor Allowance)**

Employers have the option to contract for the post-retirement survivor allowance.

For retirement allowances with respect to service subject to the modified formula, 25 percent of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, without a reduction in the retiree's allowance. For retirement allowances with respect to service subject to the full or supplemental formula, 50 percent of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, without a reduction in the retiree's allowance. This additional benefit is referred to as post-retirement survivor allowance (PRSA) or simply as survivor continuance.

In other words, 25 percent or 50 percent of the allowance, the continuance portion, is paid to the retiree for as long as he or she is alive, and that same amount is continued to the retiree's spouse (or if no eligible spouse, to unmarried child(ren) until they attain age 18; or, if no eligible child(ren), to a qualifying dependent parent) for the rest of his or her lifetime. This benefit will not be discontinued in the event the spouse remarries.

The remaining 75 percent or 50 percent of the retirement allowance, which may be referred to as the option portion of the benefit, is paid to the retiree as an annuity for as long as he or she is alive. Or, the retiree may choose to provide for some of this option portion to be paid to any designated beneficiary after the retiree's death. Benefit options applicable to the option portion are the same as those offered with the standard form. The reduction is calculated in the same manner but is applied only to the option portion.

## Pre-Retirement Death Benefits

### Basic Death Benefit

This is a standard benefit.

#### Eligibility

An employee's beneficiary (or estate) may receive the basic death benefit if the member dies while actively employed. A CalPERS member must be actively employed with the CalPERS employer providing this benefit to be eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit may choose to receive that death benefit instead of this basic death benefit.

#### Benefit

The basic death benefit is a lump sum in the amount of the member's accumulated contributions, where interest is currently credited at 7.5 percent per year, plus a lump sum in the amount of one month's salary for each completed year of current service, up to a maximum of six months' salary. For purposes of this benefit, one month's salary is defined as the member's average monthly full-time rate of compensation during the 12 months preceding death.

### 1957 Survivor Benefit

This is a standard benefit.

#### Eligibility

An employee's *eligible survivor(s)* may receive the 1957 Survivor benefit if the member dies while actively employed, has attained at least age 50 for classic and safety PEPRAs members and age 52 for miscellaneous PEPRAs members, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other retirement systems with which CalPERS has reciprocity agreements). A CalPERS member must be actively employed with the CalPERS employer providing this benefit to be eligible for this benefit. An eligible survivor means the surviving spouse to whom the member was married at least one year before death or, if there is no eligible spouse, to the member's unmarried child(ren) under age 18. A member's survivor who is eligible for any other pre-retirement death benefit may choose to receive that death benefit instead of this 1957 Survivor benefit.

#### Benefit

The 1957 Survivor benefit is a monthly allowance equal to one-half of the unmodified service retirement benefit that the member would have been entitled to receive if the member had retired on the date of his or her death. If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to dependent child(ren), the benefit will be discontinued upon death or attainment of age 18, unless the child(ren) is disabled. The total amount paid will be at least equal to the basic death benefit.

## Optional Settlement 2W Death Benefit

This is an optional benefit.

### Eligibility

An employee's *eligible survivor* may receive the Optional Settlement 2W Death benefit if the member dies while actively employed, has attained at least age 50 for classic and safety PEPRAs and age 52 for miscellaneous PEPRAs, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other retirement systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death. A member's survivor who is eligible for any other pre-retirement death benefit may choose to receive that death benefit instead of this Optional Settlement 2W Death benefit.

### Benefit

The Optional Settlement 2W Death benefit is a monthly allowance equal to the service retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2W. (A retiree who elects Optional Settlement 2W receives an allowance that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) The allowance is payable as long as the surviving spouse lives, at which time it is continued to any unmarried child(ren) under age 18, if applicable. The total amount paid will be at least equal to the basic death benefit.

## Special Death Benefit

This is a standard benefit for safety members. An employer may elect to provide this benefit for miscellaneous members.

### Eligibility

An employee's *eligible survivor(s)* may receive the special death benefit if the member dies while actively employed and the death is job-related. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married prior to the onset of the injury or illness that resulted in death. If there is no eligible spouse, an eligible survivor means the member's unmarried child(ren) under age 22. An eligible survivor who chooses to receive this benefit will not receive any other death benefit.

### Benefit

The special death benefit is a monthly allowance equal to 50 percent of final compensation, and will be increased whenever the compensation paid to active employees is increased but ceasing to increase when the member would have attained age 50. The allowance is payable to the surviving spouse until death at which time the allowance is continued to any unmarried child(ren) under age 22. There is a guarantee that the total amount paid will at least equal the basic death benefit.

If the member's death is the result of an accident or injury caused by external violence or physical force incurred in the performance of the member's duty, and there are *eligible* surviving child(ren) (*eligible* means unmarried child(ren) under age 22) in addition to an eligible spouse, then an **additional monthly allowance** is paid equal to the following:

- |                                   |                                    |
|-----------------------------------|------------------------------------|
| • if 1 eligible child:            | 12.5 percent of final compensation |
| • if 2 eligible children:         | 20.0 percent of final compensation |
| • if 3 or more eligible children: | 25.0 percent of final compensation |



## Alternate Death Benefit for Local Fire Members

This is an optional benefit available only to local fire members.

### Eligibility

An employee's *eligible survivor(s)* may receive the alternate death benefit in lieu of the basic death benefit or the 1957 Survivor benefit if the member dies while actively employed and has at least 20 years of total CalPERS service. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married prior to the onset of the injury or illness that resulted in death. If there is no eligible spouse, an eligible survivor means the member's unmarried child(ren) under age 18.

### Benefit

The Alternate Death benefit is a monthly allowance equal to the service retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2W. (A retiree who elects Optional Settlement 2W receives an allowance that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) If the member has not yet attained age 50, the benefit is equal to that which would be payable if the member had retired at age 50, based on service credited at the time of death. The allowance is payable as long as the surviving spouse lives, at which time it is continued to any unmarried child(ren) under age 18, if applicable. The total amount paid will be at least equal to the basic death benefit.

## Cost-of-Living Adjustments (COLA)

### Standard Benefit

Retirement and survivor allowances are adjusted each year in May for cost of living, beginning the second calendar year after the year of retirement. The standard cost-of-living adjustment (COLA) is 2 percent. Annual adjustments are calculated by first determining the lesser of 1) 2 percent compounded from the end of the year of retirement or 2) actual rate of inflation. The resulting increase is divided by the total increase provided in prior years. For any particular year, the COLA adjustment may be less than 2 percent (when the rate of inflation is low), may be greater than the rate of inflation (when the rate of inflation is low after several years of high inflation) or may even be greater than 2 percent (when inflation is high after several years of low inflation).

### Improved Benefit

Employers have the option of providing a COLA of 3 percent, 4 percent, or 5 percent, determined in the same manner as described above for the standard 2 percent COLA. An improved COLA is not available with the 1.5% at 65 formula.

## Purchasing Power Protection Allowance (PPPA)

Retirement and survivor allowances are protected against inflation by PPPA. PPPA benefits are cost-of-living adjustments that are intended to maintain an individual's allowance at 80 percent of the initial allowance at retirement adjusted for inflation since retirement. The PPPA benefit will be coordinated with other cost-of-living adjustments provided under the plan.

## Employee Contributions

Each employee contributes toward his or her retirement based upon the retirement formula. The standard employee contribution is as described below.

- The percent contributed below the monthly compensation breakpoint is 0 percent.
- The monthly compensation breakpoint is \$0 for full and supplemental formula members and \$133.33 for employees covered by the modified formula.
- The percent contributed above the monthly compensation breakpoint depends upon the benefit formula, as shown in the table below.

<b><u>Benefit Formula</u></b>	<b><u>Percent Contributed above the Breakpoint</u></b>
Miscellaneous, 1.5% at 65	2%
Miscellaneous, 2% at 60	7%
Miscellaneous, 2% at 55	7%
Miscellaneous, 2.5% at 55	8%
Miscellaneous, 2.7% at 55	8%
Miscellaneous, 3% at 60	8%
Miscellaneous, 2% at 62	50% of the Total Normal Cost
Miscellaneous, 1.5% at 65	50% of the Total Normal Cost
Safety, 1/2 at 55	Varies by entry age
Safety, 2% at 55	7%
Safety, 2% at 50	9%
Safety, 3% at 55	9%
Safety, 3% at 50	9%
Safety, 2% at 57	50% of the Total Normal Cost
Safety, 2.5% at 57	50% of the Total Normal Cost
Safety, 2.7% at 57	50% of the Total Normal Cost

The employer may choose to "pick-up" these contributions for classic members (Employer Paid Member Contributions or EPMC). EPMC is prohibited for new PEPRA members.

An employer may also include Employee Cost Sharing in the contract, where employees agree to share the cost of the employer contribution. These contributions are paid in addition to the member contribution.

Auxiliary organizations of the CSUC system may elect reduced contribution rates, in which case the offset is \$317 and the contribution rate is 6 percent if members are not covered by Social Security. If members are covered by Social Security, the offset is \$513 and the contribution rate is 5 percent.

## Refund of Employee Contributions

If the member's service with the employer ends, and if the member does not satisfy the eligibility conditions for any of the retirement benefits above, the member may elect to receive a refund of his or her employee contributions, which are credited with 6 percent interest compounded annually.

## **1959 Survivor Benefit**

This is a pre-retirement death benefit available only to members not covered by Social Security. Any agency joining CalPERS subsequent to 1993 is required to provide this benefit if the members are not covered by Social Security. The benefit is optional for agencies joining CalPERS prior to 1994. Levels 1, 2 and 3 are now closed. Any new agency or any agency wishing to add this benefit or increase the current level may only choose the 4<sup>th</sup> or Indexed Level.

This benefit is not included in the results presented in this valuation. More information on this benefit is available on the CalPERS website at [www.calpers.ca.gov](http://www.calpers.ca.gov).

## **APPENDIX C**

### **PARTICIPANT DATA**

- **SUMMARY OF VALUATION DATA**
- **ACTIVE MEMBERS**
- **TRANSFERRED AND TERMINATED MEMBERS**
- **RETIRED MEMBERS AND BENEFICIARIES**

## Summary of Valuation Data

	June 30, 2014	June 30, 2015
<b>1. Active Members</b>		
a) Counts	379	385
b) Average Attained Age	45.55	45.76
c) Average Entry Age to Rate Plan	33.34	33.45
d) Average Years of Service	12.21	12.31
e) Average Annual Covered Pay	\$ 69,408	\$ 72,054
f) Annual Covered Payroll	26,305,632	27,740,948
g) Projected Annual Payroll for Contribution Year	28,744,874	30,313,283
h) Present Value of Future Payroll	205,448,287	214,569,933
<b>2. Transferred Members</b>		
a) Counts	267	267
b) Average Attained Age	44.59	44.17
c) Average Years of Service	3.43	3.20
d) Average Annual Covered Pay	\$ 88,944	\$ 90,910
<b>3. Terminated Members</b>		
a) Counts	178	173
b) Average Attained Age	44.58	45.46
c) Average Years of Service	2.80	2.98
d) Average Annual Covered Pay	\$ 43,184	\$ 42,593
<b>4. Retired Members and Beneficiaries</b>		
a) Counts	559	578
b) Average Attained Age	69.28	69.44
c) Average Annual Benefits	\$ 20,618	\$ 21,224
<b>5. Active to Retired Ratio [(1a) / (4a)]</b>	0.68	0.67

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

Average Annual Benefits represents benefit amounts payable by this plan only. Some members may have service with another agency and would therefore have a larger total benefit than would be included as part of the average shown here.

## Active Members

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

### Distribution of Active Members by Age and Service

Attained Age	Years of Service at Valuation Date						Total
	0-4	5-9	10-14	15-19	20-25	25+	
15-24	6	0	0	0	0	0	6
25-29	21	9	0	0	0	0	30
30-34	17	26	10	1	0	0	54
35-39	7	16	17	4	0	0	44
40-44	8	17	15	6	1	0	47
45-49	5	20	10	9	8	1	53
50-54	1	13	12	10	9	13	58
55-59	6	6	17	8	3	10	50
60-64	2	6	7	4	2	6	27
65 and over	0	2	7	4	1	2	16
<b>All Ages</b>	<b>73</b>	<b>115</b>	<b>95</b>	<b>46</b>	<b>24</b>	<b>32</b>	<b>385</b>

### Distribution of Average Annual Salaries by Age and Service

Attained Age	Years of Service at Valuation Date						Average
	0-4	5-9	10-14	15-19	20-25	25+	
15-24	\$37,496	\$0	\$0	\$0	\$0	\$0	\$37,496
25-29	47,008	54,656	0	0	0	0	49,302
30-34	55,311	66,036	71,833	76,560	0	0	63,928
35-39	45,536	71,105	78,733	79,946	0	0	70,788
40-44	44,581	78,130	86,068	85,709	83,255	0	76,029
45-49	47,196	70,187	78,363	90,399	86,231	68,879	75,390
50-54	37,131	70,913	79,013	103,121	84,632	102,677	86,808
55-59	20,305	73,269	82,166	79,011	101,247	108,783	79,639
60-64	45,461	60,834	74,943	75,516	83,478	94,039	74,585
65 and over	0	47,358	48,574	60,864	38,337	76,987	54,406
<b>All Ages</b>	<b>\$45,393</b>	<b>\$68,693</b>	<b>\$77,274</b>	<b>\$85,500</b>	<b>\$85,159</b>	<b>\$100,304</b>	<b>\$72,054</b>

## Transferred and Terminated Members

### Distribution of Transfers to Other CalPERS Plans by Age and Service

Attained Age	Years of Service at Valuation Date						Total	Average Salary
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	10	0	0	0	0	0	10	\$68,708
25-29	23	0	0	0	0	0	23	84,180
30-34	27	2	0	0	0	0	29	97,532
35-39	42	7	0	0	0	0	49	94,401
40-44	22	6	2	0	0	0	30	83,165
45-49	22	8	4	1	0	0	35	87,861
50-54	27	6	5	3	2	0	43	95,368
55-59	15	4	1	1	0	0	21	94,145
60-64	14	4	2	1	0	0	21	97,653
65 and over	6	0	0	0	0	0	6	82,836
<b>All Ages</b>	<b>208</b>	<b>37</b>	<b>14</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>267</b>	<b>90,910</b>

### Distribution of Terminated Participants with Funds on Deposit by Age and Service

Attained Age	Years of Service at Valuation Date						Total	Average Salary
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	1	0	0	0	0	0	1	\$22,464
25-29	10	1	0	0	0	0	11	39,020
30-34	20	3	0	0	0	0	23	49,246
35-39	25	2	0	0	0	0	27	42,699
40-44	21	6	0	0	0	0	27	42,874
45-49	20	5	0	0	0	0	25	41,228
50-54	13	8	1	0	3	0	25	45,260
55-59	10	0	0	0	0	0	10	42,044
60-64	10	3	1	0	0	0	14	42,864
65 and over	8	1	0	0	0	1	10	29,099
<b>All Ages</b>	<b>138</b>	<b>29</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>173</b>	<b>42,593</b>

## Retired Members and Beneficiaries

### Distribution of Retirees and Beneficiaries by Age and Retirement Type\*

Attained Age	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 30	0	0	0	0	0	2	2
30-34	0	1	3	0	0	1	5
35-39	0	0	1	0	0	1	2
40-44	0	0	1	0	0	1	2
45-49	0	1	2	0	0	0	3
50-54	13	5	1	0	0	1	20
55-59	57	2	2	0	0	1	62
60-64	85	7	2	0	1	3	98
65-69	114	7	1	1	0	11	134
70-74	86	3	0	2	0	6	97
75-79	47	3	0	1	0	5	56
80-84	28	2	0	0	0	10	40
85 and Over	28	4	0	1	0	24	57
<b>All Ages</b>	<b>458</b>	<b>35</b>	<b>13</b>	<b>5</b>	<b>1</b>	<b>66</b>	<b>578</b>

### Distribution of Average Annual Amounts for Retirees and Beneficiaries by Age and Retirement Type\*

Attained Age	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Average
Under 30	\$0	\$0	\$0	\$0	\$0	\$6,314	\$6,314
30-34	0	1,569	172	0	0	10,017	2,421
35-39	0	0	28	0	0	10,017	5,023
40-44	0	0	311	0	0	773	542
45-49	0	25,287	1,553	0	0	0	9,464
50-54	13,251	12,862	1,015	0	0	1,073	11,933
55-59	29,258	2,098	4,405	0	0	7,349	27,227
60-64	26,371	6,749	7,253	0	2,350	24,945	24,291
65-69	25,709	10,492	6,006	80,691	0	25,793	25,185
70-74	21,330	3,108	0	24,890	0	17,539	20,605
75-79	19,881	12,061	0	4,728	0	15,265	18,779
80-84	17,602	10,889	0	0	0	17,773	17,309
85 and Over	14,646	12,801	0	9,858	0	12,815	13,662
<b>All Ages</b>	<b>\$23,328</b>	<b>\$9,558</b>	<b>\$2,638</b>	<b>\$29,011</b>	<b>\$2,350</b>	<b>\$16,171</b>	<b>\$21,224</b>



## Retired Members and Beneficiaries (continued)

**Distribution of Retirees and Beneficiaries by Years Retired and Retirement Type\***

<b>Years Retired</b>	<b>Service Retirement</b>	<b>Non-Industrial Disability</b>	<b>Industrial Disability</b>	<b>Non-Industrial Death</b>	<b>Industrial Death</b>	<b>Death After Retirement</b>	<b>Total</b>
Under 5 Yrs	130	6	5	0	0	18	159
5-9	116	3	4	3	0	15	141
10-14	93	5	3	0	1	15	117
15-19	57	4	0	0	0	12	73
20-24	33	5	1	1	0	4	44
25-29	16	3	0	0	0	2	21
30 and Over	13	9	0	1	0	0	23
<b>All Years</b>	<b>458</b>	<b>35</b>	<b>13</b>	<b>5</b>	<b>1</b>	<b>66</b>	<b>578</b>

**Distribution of Average Annual Amounts for Retirees and Beneficiaries by Years Retired and Retirement Type\***

<b>Years Retired</b>	<b>Service Retirement</b>	<b>Non-Industrial Disability</b>	<b>Industrial Disability</b>	<b>Non-Industrial Death</b>	<b>Industrial Death</b>	<b>Death After Retirement</b>	<b>Average</b>
Under 5 Yrs	\$28,004	\$10,379	\$324	\$0	\$0	\$23,773	\$25,990
5-9	28,031	12,083	2,964	43,490	0	15,930	26,022
10-14	20,962	4,304	6,908	0	2,350	12,245	18,613
15-19	19,043	9,872	0	0	0	12,707	17,499
20-24	13,332	10,695	98	4,728	0	11,518	12,371
25-29	12,837	10,016	0	0	0	9,087	12,077
30 and Over	8,590	10,165	0	9,858	0	0	9,261
<b>All Years</b>	<b>\$23,328</b>	<b>\$9,558</b>	<b>\$2,638</b>	<b>\$29,011</b>	<b>\$2,350</b>	<b>\$16,171</b>	<b>\$21,224</b>

\* Counts of members do not include alternate payees receiving benefits while the member is still working. Therefore, the total counts may not match information on page 25 of the report. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

## **APPENDIX D**

### **DEVELOPMENT OF PEPRA MEMBER CONTRIBUTION RATES**

## Development of PEPRA Members Contribution Rates

The table below shows the determination of the Member contribution rates based on 50 percent of the Total Normal Cost for each respective plan on June 30, 2015.

Assembly Bill (AB) 340 created PEPRA that implemented new benefit formulas and a final compensation period as well as new contribution requirements for new employees. In accordance with Section Code 7522.30(b), "new members ... shall have an initial contribution rate of at least 50 percent of the normal cost rate." The normal cost for the plan is dependent on the benefit levels, actuarial assumptions and demographics of the plan particularly the entry age into the plan. The PEPRA total normal cost for the plan is calculated assuming the entire active population, including classic members, is subject to the adopted PEPRA formula and applicable compensation limits. Should the total normal cost of the plan change by one percent or more from the base total normal cost established for the plan, the new member rate shall be 50% of the new normal cost rounded up to the next highest quarter percent.

Rate Plan Identifier	Plan	Basis for Current Rate		Rates Effective July 1, 2017			
		Total Normal Cost	Member Rate	Total Normal Cost	Change	Change Needed	Member Rate
26534	Miscellaneous PEPRA	12.204%	6.000%	12.088%	(0.116%)	No	6.000%

## **APPENDIX E**

### **GLOSSARY OF ACTUARIAL TERMS**

## Glossary of Actuarial Terms

### **Accrued Liability** *(also called Actuarial Accrued Liability or Entry Age Normal Accrued Liability)*

The total dollars needed as of the valuation date to fund all benefits earned in the past for *current* members.

### **Actuarial Assumptions**

Assumptions made about certain events that will affect pension costs. Assumptions generally can be broken down into two categories: demographic and economic. Demographic assumptions include such things as mortality, disability and retirement rates. Economic assumptions include discount rate, salary growth and inflation.

### **Actuarial Methods**

Procedures employed by actuaries to achieve certain funding goals of a pension plan. Actuarial methods include funding method, setting the length of time to fund the Accrued Liability and determining the Value of Assets.

### **Actuarial Valuation**

The determination, as of a valuation date of the Normal Cost, Accrued liability, and related actuarial present values for a pension plan. These valuations are performed annually or when an employer is contemplating a change to their plan provisions.

### **Amortization Bases**

Separate payment schedules for different portions of the Unfunded Liability. The total Unfunded Liability of a Risk Pool or non-pooled plan can be segregated by "cause," creating "bases" and each such base will be separately amortized and paid for over a specific period of time. However, all bases are amortized using investment and payroll assumptions from the current valuation. This can be likened to a home having a first mortgage of 24 years remaining payments and a second mortgage that has 10 years remaining payments. Each base or each mortgage note has its own terms (payment period, principal, etc.)

Generally, in an actuarial valuation, the separate bases consist of changes in unfunded liability due to contract amendments, actuarial assumption changes, actuarial methodology changes, and/or gains and losses. Payment periods are determined by Board policy and vary based on the cause of the change.

### **Amortization Period**

The number of years required to pay off an Amortization Base.

### **Classic Member (under PEPRA)**

A classic member is a member who joined CalPERS prior to January, 1, 2013 and who is not defined as a new member under PEPRA. (See definition of new member below)

### **Discount Rate Assumption**

The actuarial assumption that was called "investment return" in earlier CalPERS reports or "actuarial interest rate" in Section 20014 of the California Public Employees' Retirement Law (PERL).

### **Entry Age**

The earliest age at which a plan member begins to accrue benefits under a defined benefit pension plan. In most cases, this is the age of the member on their date of hire.

### **Entry Age Normal Cost Method**

An actuarial cost method designed to fund a member's total plan benefit over the course of his or her career. This method is designed to yield a rate expressed as a level percentage of payroll.

(The assumed retirement age less the entry age is the amount of time required to fund a member's total benefit. Generally, the older a member on the date of hire, the greater the entry age normal cost. This is mainly because there is less time to earn investment income to fund the future benefits.)

**Fresh Start**

A Fresh Start is when multiple amortization bases are collapsed to one base and amortized together over a new funding period.

**Funded Status**

A measure of how well funded, or how "on track" a plan or risk pool is with respect to assets versus accrued liabilities. A ratio greater than 100% means the plan or risk pool has more assets than liabilities and a ratio less than 100% means liabilities are greater than assets.

**GASB 68**

Statement No. 68 of the Governmental Accounting Standards Board. The accounting standard governing a state or local governmental employer's accounting and financial reporting for pensions. GASB 68 replaces GASB 27 effective the first fiscal year beginning after June 15, 2014.

**New Member (under PEPRA)**

A new member includes an individual who becomes a member of a public retirement system for the first time on or after January 1, 2013, and who was not a member of another public retirement system prior to that date, and who is not subject to reciprocity with another public retirement system.

**Normal Cost**

The annual cost of service accrual for the upcoming fiscal year for active employees. The normal cost should be viewed as the long term contribution rate.

**Pension Actuary**

A business professional that is authorized by the Society of Actuaries, and the American Academy of Actuaries to perform the calculations necessary to properly fund a pension plan.

**PEPRA**

The California Public Employees' Pension Reform Act of 2013

**Prepayment Contribution**

A payment made by the employer to reduce or eliminate the year's required employer contribution.

**Present Value of Benefits (PVB)**

The total dollars needed as of the valuation date to fund all benefits earned in the past or expected to be earned in the future for *current* members.

**Superfunded**

A condition existing when a plan's Actuarial Value of Assets exceeds its Present Value of Benefits. Prior to the passage of PEPRA, when this condition existed on a given valuation date for a given plan, employee contributions for the rate year covered by that valuation could be waived.

**Unfunded Liability (UAL)**

When a plan or pool's Value of Assets is less than its Accrued Liability, the difference is the plan or pool's Unfunded Liability. If the Unfunded Liability is positive, the plan or pool will have to pay contributions exceeding the Normal Cost.