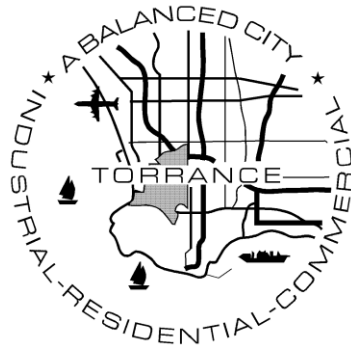


**PROJECT MANUAL BID FOR ELEVATOR MODERNIZATION AT KATY GEISSERT CIVIC  
CENTER LIBRARY**

**B2021-13**



**March 2021**

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**PART A**  
**NOTICE INVITING BIDS**

**CITY OF TORRANCE  
CALIFORNIA**

**NOTICE INVITING BIDS**

Notice is hereby given that sealed bid proposals for performing the following described work will be received at the office of the City Clerk of the City of Torrance, California, until **3:00 p.m. on Wednesday, May 19, 2021**. **Bidders may attend the bid opening via conference call at 3:10 p.m. To obtain the conference number please contact the City Clerk's office at (310) 618-2870. No bidders will physically be allowed at the bid opening.**

BID FOR ELEVATOR MODERNIZATION AT KATY GEISSERT CIVIC CENTER LIBRARY  
B2021-13

**A pre-bid conference will NOT be conducted due to the pandemic.** If you'd like to visit the project site(s) with a City Representative please contact Louis Ortega at (310) 953-1355.

Interested bidders must contact Nina Schroeder by email ([NSchroeder@TorranceCa.Gov](mailto:NSchroeder@TorranceCa.Gov)) if planning to bid on the project, by 5:30 p.m. on **Thursday, April 15, 2021** to be placed on the bidders list and contacted when addenda are issued. Vendors submitting proposals without emailing Nina Schroeder may be disqualified if acknowledgment of addenda are not submitted and the proposal may not be evaluated. Addenda are posted online at: <https://www.torranceca.gov/government/general-services/completed-projects>. It is the sole responsibility of the bidder to check the city's website for posted addenda.

**Addenda will be issued by email to those who emailed Nina Schroeder, and will be posted online.** All addenda must be acknowledged. Failure to acknowledge addenda on the bid forms provided may render the proposal non-responsive and cause it to be rejected. It is the Bidder's sole responsibility to visit the project's website to obtain and administer any Addendum related to this bid. An Addendum must be acknowledged by a bidder in its submitted form of Proposal. **If a bidder submits its Bidder's Submittal on forms other than the official Bidder's Submittal forms, the City may declare the bid as non-responsive.**

The project manual, and bid proposal packet are available online for viewing and printing at: <https://www.torranceca.gov/government/general-services/completed-projects>

The bid proposal packet and bound specifications (project manual) may be obtained online or may be requested to be mailed. A \$5.00 fee, if requesting bid proposal packet to be mailed. A \$15.00 fee if requesting both bound specifications (project manual) and bid proposal packet by mail. All amounts include tax. No amount is refundable. A prospective bidder must provide to the City Clerk's office the firm's name, address, telephone and fax number, a contact person and a valid email address.

If requesting any item(s) by mail, please send check to the following:

**CITY OF TORRANCE  
OFFICE OF THE CITY CLERK  
3031 TORRANCE BLVD  
TORRANCE, CA 90503-2970  
ATTN: B2021-13**

Scope of work: The City of Torrance is seeking qualified contractors to modernize the Public elevator at the Katy Geissert Civic Center Library.

In general, the work consists of replacing power controllers, group supervisory controllers, door operating equipment and major rehabilitation for the single hydraulic elevator and continuing maintenance of the same in accordance with Specification Sections 142210 February 5, 2021 prepared by HKA Elevator Consulting, Inc.

Please see the specifications in Part F for full details.

Bidders Examination of Requirements:

The bidder is required to examine carefully the site, the instructions, information and specifications of this document, investigate the conditions to be encountered, the character, quality and quantities of work to be performed as required by this document. Submission of a bid will be considered prima facie evidence that the bidder has made such examination.

The successful bidder must have at the time of submitting the bid a valid C-11 Elevator Contracting License.

The PWCR (Public Works Contractor Registration) Number is required at the time the bid is submitted as the City cannot award projects to companies that are not registered through the Department of Industrial Relations (DIR). The awarded company will be required to upload certified payrolls into the DIR website and provide them to the City for payment processing. The PWCR Number can be obtained from the DIR website at [dir.ca.gov](http://dir.ca.gov).

Bidder, as the prime contractor, must have successfully completed at least three (3) elevator modernization projects of a similar size and scope valued at within the last three (3) years. Bidder must have at least five (5) years' experience under current license (California State License Board), company registration (California Secretary of State). References must reflect this experience.

Project cost estimate: \$160,000 - \$180,000.

The contract completion term will begin upon the receipt of the Notice to Proceed (NTP) and will remain in effect for a total of **fifty (50)** calendar days. The **fifty (50)** calendar days schedule includes: 40 days onsite work plus 10 days for completion of contractual paperwork not subject to liquidated damages. Bids are required for the entire work described herein.

Per Division 2, Chapter 2 of the Torrance Municipal Code, the Torrance City Council may reject any and all bids, waive any informality or irregularity in such bids, and determine the lowest responsible bidder.

No Facsimile Bids shall be accepted by the City.

By order of the City Council of the City of Torrance, California.

This contract is subject to California State Prevailing Wage- Pursuant to Section 1771 and 1773 of the Labor Code, the general prevailing wage rates in the county in which the work is to be

done have been determined by the Director of the California Department of Industrial Relations. These wages are set forth in the General Prevailing Wage Rates for this project, are attached and available from the California Department of Industrial Relations' internet site at <http://www.dir.ca.gov/Public-Works/Prevailing-Wage.html>. Future effective general prevailing wage rates which have been predetermined and are on file with the California Department of Industrial Relations are referenced but not printed in the general prevailing wage rates.

APPRENTICESHIP EMPLOYMENT STANDARDS. Attention is directed to the provisions in Sections 1776 and 1777.5 of the California Labor Code concerning the employment of apprentices by the Contractor or any subcontractor under them.

One of the legal requirements for working on a public works project is the employment of apprentices. The Division of Apprenticeship Standards provides assistance to contractors in employing apprentices on public works sites.

Information relative to apprenticeship standards, wage schedules, and other requirements may be obtained from the Director of Industrial Relations, <http://www.dir.ca.gov/das/PublicWorksForms.htm>

Contractor Registration with the Department of Industrial Relations (SB 854)

- No contractor or subcontractor may be listed on a bid proposal or awarded a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].
- No contractor or subcontractor may be awarded a contract for public work on public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.
- Pursuant to Section 1770, et.seq. of the California Labor Code, the successful bidder shall pay not less than the prevailing rate of per diem wages as determined by the Department of Industrial Relations. These wage rates are available from the California Department of Industrial Relations.
- This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations. All contractors and subcontractors must furnish electronic certified payroll records directly to the Labor Commissioner (aka Division of Labor Standards Enforcement). For additional information and to register online go to <http://www.dir.ca.gov/Public-Works/Contractors.html>

**Fall Protection: – Safety Requirement** - OSHA requires employers to protect workers from falls. Falls can cause death and very serious injuries -and can be prevented. OSHA's fall protection requirements are as follows: for general industry, fall protection must be used while working at heights of four or more feet (see [www.osha.gov/SLTC/fallprotection/index.html](http://www.osha.gov/SLTC/fallprotection/index.html)). Fall protection can be accomplished through the use of guardrail systems, safety net systems, personal fall arrest systems, or similar systems.

**PART B**  
**INSTRUCTIONS TO BIDDERS**

**CITY OF TORRANCE  
CALIFORNIA**

**INSTRUCTIONS TO BIDDERS**

**A. QUALIFICATION OF BIDDERS**

**1. Competency of Bidders**

The Bidder shall be thoroughly competent and capable of satisfactorily performing the Work covered by the Bid. As specified in the Bid Documents, the Bidder shall furnish statements of previous experience on similar work. When requested, the Bidder shall also furnish a plan of procedure proposed; organization, machinery, plant and other equipment available for the Work; evidence of financial condition and resources; and any other documentation as may be required by the City to determine if the Bidder is responsible.

**2. Contractor's License**

At the time of submitting the Bid, the Bidder shall be licensed as a contractor in accordance with the provisions of Chapter 9, Division 3, of the California Business and Professions Code. The required prime contractor license class for the Work is shown in the project Notice Inviting Bids. However, the City reserves the right to award the Contract to a contractor with another class if the City determines that the license is proper for the work.

**3. Contractor Registration Requirements**

SB 854 amended the Labor code to require all contractors bidding on public work to register with the Department of Industrial Relations (DIR) and to pay an annual fee. The registration requires contractors to provide the State with evidence of the contractors' compliance with a number of statutory requirements.

**4. Bidders Submittal and Contract Award Prohibited**

Under California Labor Code section 1771.1, as amended by SB 854, unless registered with the DIR, a contractor may not bid, nor be listed as a subcontractor, for any bid proposal submitted for public work on or after March 1, 2015. Similarly, a public entity cannot award a public work contract to a non-registered contractor, effective April 1, 2015.

**B. BIDDER RESPONSIBILITY**

A responsible Bidder is a Bidder who has demonstrated the attribute of trustworthiness, as well as ability, fitness, capacity and experience to satisfactorily perform the work.

Bidders are notified that, in accordance with Division 2, Chapter 2 of the Torrance Municipal Code, the City Council may determine whether the Bidder is responsible based on a review of the Bidder's performance on other contracts.

If, based on the provision and criteria in Division 2, Chapter 2 of the Torrance Municipal Code, the General Services Director proposes not to recommend the award of contract to the apparent



low bidder, the Director shall notify the Bidder in writing of its intention to recommend to the City Council that the Council award the contract to the next lowest responsible bidder. If the Bidder presents evidence in rebuttal to the recommendation, the Director shall evaluate the merits of such evidence, and based on that evaluation, make a recommendation to the City Council.

C. ADDENDA TO THE CONTRACT DOCUMENTS

The City reserves the right to revise or amend these specifications prior to the date set for opening bids. Revisions and amendments, if any, will be announced by an addendum to this bid. If the revisions require additional time to enable Bidders to respond, the City may postpone the opening date accordingly. In such case, the addendum will include an announcement of the new opening date.

All addenda must be attached to the bid. Failure to attach any addendum may render the bid non-responsive and cause it to be rejected.

D. PREPARATION OF THE BID

1. Examination of Site, Plans and Specifications

Bidders shall examine the site of the work and acquaint themselves with all conditions affecting the work. By submitting a bid, the bidder shall be held to have personally examined the site and the drawings, to have carefully read the specifications, and to have satisfied itself as to its ability to meet all the difficulties attending the execution of the proposed contract before the delivery of this proposal, and agrees that if awarded the contract, will make no claim against the City based on ignorance or misunderstanding of the plans, specifications, site conditions and/or contract provisions.

The Contractor shall have included in the contract price a sufficient sum to cover all items, including labor, materials, tools, equipment and incidentals, that are implied or required for the complete improvements as contemplated by the drawings, specifications, and other contract documents.

2. Bid Instructions and Submissions

The Bid shall be submitted on the Bid Proposal forms included in the Specifications. All Bid Documents must be completed, executed and submitted with Bid by Bidder. Required seven (7) Bid Proposal Documents:

1. Bidder's Proposal
2. Labor Rate Forms
3. Addenda Acknowledgment
4. Contractor's Affidavit
5. Bid Bond (10% of Bid)
6. List of Subcontractors
7. References
8. Bidder's Information

All prices submitted will be considered as including any and all sales or use taxes. In case of a discrepancy between a unit bid price and total bid, the unit price shall prevail.

E. BID FORM/BOND

The Bid must be accompanied by cash, a certified or cashier's check, or a surety bond (bid bond) payable to the City of Torrance. Bids must be submitted on the proposal forms furnished by the City Clerk's office. The Bid Guaranty shall be in an amount equivalent to at least 10% of the Total Contract Bid Price.

Within ten (10) days after the award of the contract, the City Clerk will return the proposal guarantees accompanying those proposals, which are not to be considered in making the award. All other proposal guarantees will be held until the contract has been finally executed, after which they will be returned to the respective bidders whose proposals they accompany.

F. AFFIDAVIT

An affidavit form is enclosed. It must be completed signifying that the bid is genuine and not collusive or made in the interest or on behalf of any person not named in the bid, that the bid 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 Bidder has not in any manner sought by collusion to secure for itself an advantage over any other Bidder. Any bid submitted without an affidavit or in violation of this requirement will be rejected.

G. NONRESPONSIVE BIDS AND BID REJECTION

1. A Bid in which bid proposal documents are not completed, executed and submitted may be considered non-responsive and be rejected.
2. A Bid in which the Contract Unit Prices are unbalanced, which is incomplete or which shows alteration of form or irregularities of any kind, or which contains any additions or conditional or alternate Bids that are not called for, may be considered non-responsive and be rejected.

H. AWARD OF CONTRACT

In accordance with Division 2, Chapter 2 of the Torrance Municipal Code, the City Council reserves the right to reject any and all bids received, to take all bids under advisement for a period not-to-exceed sixty (60) days after date of opening thereof, to waive any informality or irregularity in the Bid, and to be the sole judge of the merits of material included in the respective bids received.

This bid does not commit the City to award a contract or to pay any cost incurred in the preparation of a bid. All responses to this bid become the property of the City of Torrance.

I. NOTICE OF INTENT TO AWARD

Approximately two (2) weeks prior to the anticipated City Council meeting awarding a contract as a result of the RFP or bid, results will be posted on the City of Torrance Web site at <https://www.torranceca.gov/government/city-clerk/request-for-proposals>

J. BID PROTEST PROCEDURES

Please refer to City of Torrance website link below to obtain the City's Protest Procedures at <https://www.torranceca.gov/government/city-clerk/request-for-proposals>

K. EXECUTION OF CONTRACT

After the Contract is awarded, the awarded bidder shall execute the following five (5) documents:

1. Performance Bond (100% of Bid)
2. Labor and Material Bond (100% of Bid)
3. Contract – Contract Services Agreement
4. Verification of Insurance Coverage (Certificates and Endorsements)
5. Business License Application Form

The contract shall be signed by the successful bidder and returned, together with the contract bonds and evidence of required insurance coverage, within **ten (10) working days**, not including Sundays, after the bidder has received notice that the contract has been awarded. Failure to execute the contract as specified above shall be just cause for annulment of the award and forfeiture of the proposal guarantee. The Contract shall not be considered binding upon the CITY until executed by the authorized CITY officials.

Bond amounts shall be as provided in Section 2-4 of the Standard Specifications for Public Works Construction. The Performance Bond shall be required to remain in effect for one (1) year following the date specified in the City's Notice of Completion, or, if no Notice of Completion is recorded for one (1) year following the date of final acceptance by the City Manager.

L. PERMITS, LICENSES AND CONTRACT SERVICES AGREEMENT

The Contractor shall procure and execute all permits, licenses, pay all charges and fees, and give all notices necessary and incidental to completion of Work. The Contractor shall execute a Contract Services Agreement. No fee is charged for a permits issued by the City of Torrance for a City project. The Contractor shall obtain a City of Torrance Business License. To obtain a Torrance Business License please call 310-618-5923.

M. INSURANCE

The Contractor shall maintain Automobile Liability, General Liability and Workers' Compensation Insurance as specified in the Contract Services Agreement included in the Project Specifications.

N. SUBCONTRACTS

Each Bidder shall comply with the Chapter of the Public Contract Code including sections 4100 through 4114. The Contractor shall perform, with its own organization, Contract work amounting to at least 50 percent of the Contract price. When a portion of an item is subcontracted, the value of the work subcontracted will be based on the estimated percentage of the Contract Unit Price, determined from information submitted by the Contractor, subject to approval by the City Manager (or his designate representative). This percentage will be based on direct labor hours used on the project. Supervision and overhead are not included in this calculation.

O. TRAFFIC CONTROL- Not applicable

P. PRE-BID INQUIRIES

Bidders with pre-bid inquiries must submit questions in writing to the General Services Department. Any and all questions must be emailed to Nina Schroeder, Business Manager at

[NSchroeder@TorranceCA.gov](mailto:NSchroeder@TorranceCA.gov). Please list “**Bid for Elevator Modernization at Katy Geissert Civic Center Library**” in the subject line of the email. The deadline to submit questions is **12:00 p.m. Pacific Time on Thursday, April 29, 2021.**

Q. RESPONSIBILITY OF CITY

The City of Torrance shall not be held responsible for the care or protection of any material or parts of the work prior to final acceptance, except as expressly provided in these specifications.

R. CONSTRUCTION SCHEDULE AND PRECONSTRUCTION CONFERENCE.

The office staff of the City is currently operating on a 9/80 work week; therefore, City Hall is closed every other Friday.

In accordance with the herein Special Provisions, after notification of award and prior to start of any work, **the Contractor shall submit to the City for approval its proposed Construction Schedule within ten (10) working days from the date of Notice of Proceed.** At least two (2) days, exclusive of Saturdays, Sundays and holidays, prior to commencement of work, the Contractor shall attend a pre-construction conference.

**The Contractor will provide all product and equipment submittals to the City of Torrance or designated consultant within ten (10) working days from the date of Notice to Proceed.** The Contractor shall immediately order materials requiring a delivery delay upon receipt of a written notice from the City that the City Council has approved an Award of Contract. Contractor shall provide written proof(s) of timely material order(s) and shall include any delivery delays in the Construction Schedule.

S. PROGRESS OF THE WORK AND TIME FOR COMPLETION

The Contractor shall begin work after the mailing, from the City Manager to the Contractor, by first class mail, postage prepaid, of a Notice to Proceed. **The Contractor shall diligently prosecute the same to completion within fifty (50) calendar days of the start date specified in said Notice.** The **fifty** calendar schedule includes, 40 days onsite work plus 10 days for completion of contractual paperwork not subject to liquidated damages.

During periods when weather or other conditions are unfavorable for construction, the Contractor shall pursue only such portions of the work as shall not be damaged thereby. No portions of the work whose acceptable quality or efficiency will be affected by any unfavorable conditions shall be constructed while those conditions exist. It is expressly understood and agreed by and between the Contractor and the City that the Contract time for completion of the work described herein is a reasonable time taking into consideration the average climatic and economic conditions and other factors prevailing in the locality of the work.

T. LIQUIDATED DAMAGES

The Contractor agrees that failure to complete work within the time allowed will result in damages being sustained by the City. Contractor and City agree that failure to complete the project will result in inconvenience to the citizens of Torrance and the City of Torrance and their customers using the affected areas. Such delay will also result in the necessity of several inspections each day to ensure that the project is properly progressing. The parties also agree that failure to complete the project on time will prevent the City from having the use of the facility. Therefore, the parties agree such damages among others are, and will continue to be, impracticable and extremely difficult to determine, but that **five hundred dollars (\$500) per calendar day** is the

minimum value of such costs to the City and is a reasonable amount that the Contractor agrees to reimburse the City for each calendar day of delay in finishing the work in excess of the time specified for completion, plus any authorized time extensions.

Execution of the contract under these specifications shall constitute agreement by the Contractor and the City that five hundred dollars (\$500) per calendar day is the minimum value of the costs and actual damage caused by failure of the Contractor to complete the work within the allotted time, that such sum is liquidated damages and shall not be construed as a penalty, and that such sum may be deducted from payments due the Contractor if such delay occurs. Said amount may be reduced by the City if work is sufficiently completed within the allotted time so that the damages are minimized.

The Contractor will not be assessed liquidated damages for any delay in completion of the work when such delay was caused by the failure of the City or the owner of a utility to provide for removal or relocation of the existing utility facilities; provided, however, that the Contractor shall have given the City and the owner of a utility timely notice of the interference. "Timely notice" shall be defined as a verbal notice (to be followed up in writing) no later than one (1) hour after initial discovery of the interference unless the City Representative is present, in which case notice shall be given immediately in writing to the City Manager.

#### U. GENERAL PREVAILING WAGE RATE

This contract is subject to California State Prevailing Wage.

Pursuant to Section 1771 and 1773 of the Labor Code, the general prevailing wage rates in the county in which the work is to be done have been determined by the Director of the California Department of Industrial Relations. These wages are set forth in the General Prevailing Wage Rates for this project, are attached and available from the California Department of Industrial Relations' internet site at <http://www.dir.ca.gov/Public-Works/Prevailing-Wage.html>. Future effective general prevailing wage rates which have been predetermined and are on file with the California Department of Industrial Relations are referenced but not printed in the general prevailing wage rates.

APPRENTICESHIP EMPLOYMENT STANDARDS. Attention is directed to the provisions in Sections 1776 and 1777.5 of the California Labor Code concerning the employment of apprentices by the Contractor or any subcontractor under them.

One of the legal requirements for working on a public works project is the employment of apprentices. The Division of Apprenticeship Standards provides assistance to contractors in employing apprentices on public works sites.

Information relative to apprenticeship standards, wage schedules, and other requirements may be obtained from the Director of Industrial Relations, <http://www.dir.ca.gov/DAS/DASApprenticesOnPublicWorksSummaryOfRequirements.htm>

#### Contractor Registration with the Department of Industrial Relations (DIR)

- No contractor or subcontractor may be listed on a bid proposal or awarded a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].
- No contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

- This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.
- All contractors and subcontractors must furnish electronic certified payroll records directly to the Labor Commissioner (aka Division of Labor Standards Enforcement).

For additional information and to register online go to <http://www.dir.ca.gov/Public-Works/Contractors.html>

DIR provides a searchable database of registered contractors and subcontractors on its website <http://efiling.dir.ca.gov/PWCR/Search>, so that all contractors can comply with the requirement to only use registered contractors and subcontractors.

#### Labor Code Section 1813

The contractor or subcontractor shall, as a penalty to the state or political subdivision on whose behalf the contract is made or awarded, forfeit twenty-five dollars (\$25) for each worker employed in the execution of the contract by the respective contractor or subcontractor for each calendar day during which the worker is required or permitted to work more than 8 hours in any one calendar day and 40 hours in any one calendar week in violations of the provisions of this article. In awarding any contract for public work, the awarding body shall cause to be inserted in the contract a stipulation to this effect. The awarding body shall take cognizance of all violations of this article committed in the course of the execution of the contract, and shall report them to the Division of Labor Standards Enforcement.

#### Labor Code Section 1815

Notwithstanding the provisions of Sections 1810 to 1814, inclusive, of this code and notwithstanding any stipulation inserted in any contract pursuant to the requirements of said sections, work performed by employees of contractors in excess of 8 hours per day, and 40 hours during any one week, shall be permitted upon public work upon compensation for all hours worked in excess of 8 hours per day than 1 ½ times the basic rate of pay.

#### V. PRELIMINARY NOTICES AND STOP NOTICES

Preliminary Notices and Stop Notices should be mailed to the following address.

Nina Schroeder  
General Services Department  
3350 Civic Center Drive  
Torrance, CA 90503

**PART C**  
**SPECIAL PROVISIONS**

## SECTION A. GENERAL

The Project Specifications for all work on this project are the specifications contained in the “**Project Manual for Elevator Modernization at Katy Geissert Civic Center Library**” per plans and specifications provided by the City of Torrance.

Scope of work: The City of Torrance is seeking qualified contractors to modernize the Public elevator at the Katy Geissert Civic Center Library.

In general, the work consists of replacing power controllers, group supervisory controllers, door operating equipment and major rehabilitation for the single hydraulic elevator and continuing maintenance of the same in accordance with Specification Sections 142210 February 5, 2021 prepared by HKA Elevator Consulting, Inc.

Please see the specifications in Part F for full details.

### Bidders Examination of Requirements:

The bidder is required to examine carefully the site, the instructions, information and specifications of this document, investigate the conditions to be encountered, the character, quality and quantities of work to be performed as required by this document. Submission of a bid will be considered prima facie evidence that the bidder has made such examination.

Scope of work must include all labor, equipment, materials and accessories for a complete and useable project acceptable to the City of Torrance.

The Specifications included are intended to govern all aspects of the appurtenant construction including, but not limited to, materials and details, except as modified herein or as inconsistent with the provisions hereof.

## DEFINITIONS

Whenever the following terms are used, they shall be understood to mean and refer to the following:

CITY - City of Torrance.

Board - The City Council of the City of Torrance herein referred to as City Council.

City Manager - The General Services Director of the City of Torrance, acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties entrusted to them.

Consulting Firm – HKA Elevator Consulting, Inc.  
23211 South Pointe Drive  
Laguna Hills, CA 92653  
(949) 348-9711

Laboratory - The designated laboratory authorized by the City of Torrance to test materials and work involved in the contract.



## **SECTION B. REFERENCE TO STANDARDS OR PUBLICATIONS**

Any reference made in the Contract Documents to any specification, standard, or publication of any organization shall, in the absence of a specific designation to the contrary, be understood to refer to the latest edition of the specification, standard, or publication in effect as of the date of advertising the work, except to the extent that said standard or publication may be in conflict with applicable laws, ordinances, or governing codes. Contractors should be aware of all new code requirements (such as Cal-Green) when dealing with other general building work. No requirements of these specifications or the drawings shall be waived because of any provisions of, or omission from, said standards or publications.

## **SECTION C. DESCRIPTION OF THE WORK**

1. Scope of the Work. Scope of work must include all labor, equipment, materials and accessories for a complete and useable project acceptable to the City of Torrance and per project plans. Contractor is responsible to investigating existing site conditions, prior to submitting a bid.

## **SECTION D. GENERAL PROCEDURES**

1. Specifications and Drawings Complementary. The Drawings are complementary, and what is called for in one shall be as binding as if called for in both.
2. Order of Precedence of Contract Documents. In resolving conflicts resulting from conflicts, errors, or discrepancies in any of the Contract Documents, the order of precedence shall be as follows:
  1. Change Orders (including Plans and Specifications attached thereto).
  2. Permits Issued by other agencies
  3. Contract Services Agreement
  4. Addenda
  5. Special or General Provisions
  6. Plans
  7. City Standard Plans
  8. Instructions to Bidders
  9. Reference Specifications

Within the Specifications the order of precedence is as follows:

1. Addenda/Change Orders
2. Permits from other agencies/supplemental agreements
3. Special or General Provisions
4. Instructions to Bidders
5. Referenced Standard Plans
6. Referenced Specifications

With reference to the Plans/Drawings the order of precedence is as follows:

1. Change Orders plans govern over Addenda and Contract Drawings
  2. Addenda plans govern over Contract plans.
  3. Contract plans govern over standard plans
  4. Detail plans govern over general plans
  5. Figures govern over scaled dimensions
3. Discrepancies in the Contract Documents. Any discrepancies, conflicts, errors or omissions found in the Contract Documents shall be promptly reported in writing to the City Manager, who will issue a correction in writing. The Contractor shall not take advantage of any such discrepancies,

conflicts, errors or omissions, but shall comply with any corrective measures regarding the same prescribed by the City Manager, and no additional payment or time shall be allowed therefor.

If discrepancies are discovered between the drawings and the specifications, and no specific interpretation is issued prior to bidding, the decision regarding this interpretation shall rest with the City Manager. The Contractor shall be compelled to act on the City Manager's decision as directed. In the event the installation is not in compliance with the direction of the City Manager, the installation shall be corrected by and at the expense of the Contractor at no additional cost to the City.

See Section E of these Special Provisions for "Claims".

4. Errors and Omissions. If the Contractor, in the course of the work, becomes aware of any claimed errors or omissions in the contract documents or in the City's field work, he shall immediately inform the City Manager. The City Manager shall promptly review the matter, and if the City Manager finds an error or omission has been made the City Manager shall determine the corrective actions and advise the Contractor accordingly. If the corrective work associated with an error or omission increases or decreases the amount of work called for in the Contract, the City shall issue an appropriate Change Order. After discovery of an error or omission by the Contractor, any related work performed by the Contractor shall be done at its risk unless authorized by the City Manager.
5. Changed Conditions. The plans for the work show conditions as they are believed by the City Manager to exist, but it is not intended or to be inferred that the conditions as shown thereon constitute a representation by the City that such conditions are actually existent, nor shall the City be liable for any loss sustained by the Contractor as a result of any variance of the conditions as shown on the plans and the actual conditions revealed during the progress of the work or otherwise. The word "conditions" as used in this paragraph includes, but is not limited to, site conditions, both surface and subsurface.

The Contractor shall examine the site, compare it with the drawings and specifications and shall satisfy itself as to the conditions under which the work is to be performed. The Contractor shall ascertain and check the location of all existing structures, utilities and equipment, which may affect its work. The Contractor shall be responsible to re-examine the site, as necessary, for performance of change orders or other proposed changes, which may affect its work. No allowance shall subsequently be made on the Contractor's behalf for any extra expense or loss of time, which is incurred due to failure or negligence on its part to make such examination.

6. As-built Drawings. The Contractor shall maintain a control set of Plans and Specifications on the Work site at all times. All final locations determined in the field, and any deviations from the Plans and Specifications, shall be marked in red on this control set to show as-built conditions. Upon completion of Work, the Contractor shall submit the control set to the Engineer for approval. Final payment will not be made until this requirement is met.
7. Construction Staking. The Contractor is responsible for all construction staking and shall be responsible for the cost of any restaking required due to disturbance caused by its operations, failure to protect the work site from vandalism or other causes of loss.
8. Notice to Proceed. Notwithstanding any other provisions of the Contract, the Contractor shall not be obligated to perform any work and the City shall not be obligated to accept or pay for any work performed by the Contractor prior to delivery of a Notice to Proceed. The City's knowledge of work being performed prior to delivery of the Notice to Proceed shall not obligate the City to accept

or pay for such work. The Contractor shall provide all required contract bonds and evidences of insurance prior to commencing work at the site.

9. Delay in Obtaining Materials. No extension of time will be granted for a delay caused by the inability to obtain materials unless the Contractor either obtains advance written approval from the City Manager or obtains from the supplier and furnishes to the City Manager documentary proof that such materials could not be obtained due to war, government regulations, labor disputes, strikes, fires, floods, adverse weather necessitating the cessation of work, or other similar action of the elements. The Contractor is required to order materials in a timely manner as specified in the "Instruction to Bidders".
10. Inspection and Testing. The Work is subject to inspection and approval by the CITY or any authorized representative. It is the duty of the Contractor to notify the inspector that specific work is ready for inspection. Requests for inspections should be made through the automated phone system at 310-618-5901, using the permit number and following the prompts. Requests can be made up to 11pm the night before an inspection is required. The inspections will be typically made the next day.

All rough Mechanical, Electrical and Plumbing should be inspected by the City Specialty Inspectors and approved prior to any framing inspection. All framing, fire-blocking and bracing shall be in place prior to ordering a framing inspection. Gypsum board shall only be installed after approved framing inspection and then order a gypsum board nailing inspection prior to tape and finishing.

The CITY will make, or have made, such inspections and tests, as the City deems necessary to see that the Work is in conformance with the Contract Documents. The contractor will be responsible for coordinating the inspections and tests and pay for all related costs. In the event such inspections or tests reveal noncompliance with the Contract Documents, the Contractor shall bear the cost of such corrective measures as deemed necessary by the CITY, as well as the cost of subsequent re-inspection and re-testing.

Work done in the absence of inspection by the CITY may be required to be removed and replaced under the inspection of the CITY, and the entire cost of removal and replacement, including the cost of all materials which may be furnished by the CITY and used in the work thus removed, shall be borne by the Contractor, regardless of whether the work removed is found to be defective or not. Work covered without the approval of the CITY shall, if so directed, be uncovered to the extent required by the CITY, and the Contractor shall similarly bear the entire cost of performing all the work and furnishing all the materials necessary for the removal of the covering and its subsequent replacement, including all costs for additional inspection.

The CITY and any authorized representatives shall at all times have access to the Work during its construction at shops and yards as well as the Work site. The Contractor shall provide every reasonable facility for ascertaining that the materials and workmanship are in accordance with the Contract Documents.

Inspection of the Work shall not relieve the Contractor of the obligation to fulfill all conditions of the Contract.

11. Project Schedule  
Within ten (10) working days after the receipt of the Notice to Proceed, the Contractor shall submit a proposed construction schedule to the CITY for approval. The schedule shall be in accordance with section 6 and shall be in sufficient detail to show chronological relationship of all activities of the Work. These include, but are not limited to: estimated starting and completion dates of various

activities, submissions of submittals per 3.83 shop drawings, procurement of materials and scheduling of equipment.

No work may be started until the Schedule has been approved in writing. The work shall be scheduled to assure that construction will be completed within the specified time. The Contractor shall be responsible for coordination of all phases of the operation so that the time schedule can be met.

During construction, the Contractor shall also submit to the CITY, a two-week "look ahead" construction schedule during the construction progress meetings held biweekly. If the Contractor decides to make a major change in the method of operations after commencing construction, or if the schedule fails to reflect the actual progress, the Contractor shall submit to the CITY a revised construction schedule in advance of beginning revised operations.

Sequence of Construction - The Contractor shall sequence the Work in a manner to expeditiously complete the project with a minimum of inconvenience to the CITY or adjacent owners.

The construction schedule shall conform to the following criteria:

- 1) The schedule shall be prepared using the latest version of Microsoft Project or approved equal.
- 2) Work activities shall be based on the following:
  - a) Contract Unit Price items shall be subdivided into those portions to be constructed during each stage or phase of construction. (If applicable)
  - b) Lump sum items shall be subdivided into those portions to be constructed during each stage or phase of construction.
- 3) Utility relocations and/or coordination by the Contractor per section 14 of these Special Provisions shall be considered as activities.
- 4) Required submittals, working and shop drawings shall be included as activities.
- 5) The procurement of construction materials and equipment with long lead times for deliveries shall be included as activities.
- 6) Work to be performed by subcontractors shall be identified and shown as work activities.
- 7) Start and completion dates of each activity shall be illustrated.
- 8) Completion of all Work under the Contract shall be within the time specified in these Special Provisions and in accordance with the Plans and Specifications.

## 12. Mobilization

- 12.1 Scope. Mobilization shall include the provision of the Construction Schedule; Best Management Practices, Safety Plan, site review; obtaining all permits, insurance, and bonds; moving onto the site all materials and equipment; furnishing temporary construction facilities, and removal of same at completion of the project; all as required for the proper performance and completion of the work.

Mobilization shall include, but not be limited to, the following principle items.

- (a) Submittal and modification, as required, of the Construction Schedule.
- (b) All associated documentation and submittals as required.
- (c) Installing temporary construction power and wiring.
- (d) Establishing fire protection system.
- (e) Developing construction water supply.
- (f) Providing on-site sanitary facilities and portable water facilities, as required.
- (g) Arranging for and erection of Contractor's work and storage yard.
- (h) Submittal of all required insurance certificates and bonds, including subcontractors.
- (i) Obtaining all required permits.
- (j) Posting all OSHA required notices and establishment of safety programs.
- (k) Have the Contractor's superintendent at the job site full-time.
- (l) Pot-holing and other research and review as necessary to verify site conditions and utility locations, including research and review as necessary for change orders.
- (m) Demobilization.

13. Markup

The markups mentioned hereinafter shall include, but are not limited to, all costs for the services of superintendents, project managers, timekeepers and other personnel not working directly on the change order, and pickup or yard trucks used by the above personnel. These costs shall not be reported as labor and equipment elsewhere except when actually performing work directly on the change order and then shall be reported at the labor classification of the work performed.

The following percentages shall apply for additional work:

Profit	5% maximum
Overhead	10% maximum

Subcontractor markup: maximum allowed is 5% for profit and 10% for overhead on the subcontractor's costs.

To the sum of the costs and markups provided for in this subsection, one (1) percent shall be added as compensation for bonding and one (1) percent for insurance.

For changes involving only a decrease in price, the contractor and subcontractors shall return as credit for overhead and profit those same percentages which are allowed for like changes involving increase in price. On changes involving both an increase and decrease in price, overhead and profit will be allowed only on the net increase.

14. Utilities. The Contractor shall provide coordination with all the utility companies involved and shall provide protection from damage to their facilities. The Contractor shall be responsible for repair

or replacement to said facilities made necessary by its failure to provide required protection. The Contractor is required to include utility requirements in the Construction Schedule.

The Contractor shall be solely responsible to check all utility record maps, books, and/or other data in the possession of the CITY, other agencies, and/or all utility companies, and no allowance shall be made for any failure to have done so.

The Contractor shall utilize the services of "Underground Service Alert - Southern California" for utility locating in all public right-of-ways by calling 1-800-227-2600 at least 48 hours prior to any excavation.

15. Completion, Acceptance, Warranty: If, in the CITY's judgment, the Work has been completed and is ready for acceptance, the CITY will so certify and will determine the date when the Work was completed. This will be the date when the Contractor is relieved from responsibility to protect the Work. The CITY may cause a Notice of Completion to be filed and recorded with the Los Angeles County Recorder's Office. At the CITY's option, the CITY may certify acceptance to the City Council who may then cause a Notice of Completion to be filed and recorded with the Los Angeles County Recorder's Office.

Manufacturer's warranties and guaranties furnished for materials used in the Work and instruction sheets and parts listed supplied with materials shall be delivered to the CITY prior to acceptance of the Work. The duration of the warranty or guaranty shall be the standard of the industry with a minimum of 1 year from the date of Notice of Completion or Date of Acceptance.

The prime contractor will be required to warranty the entire project regardless of whether warranties from subcontractors are also required. Coordination and correction of any issue related to project scope that arises during that one (1) year warranty period will be the responsibility of the prime contractor.

Manufacturer's warranties shall not relieve the Contractor of liability under these Specifications. Such warranties only shall supplement the Contractor's responsibility.

The CITY may require a manufacturer's warranty on any product offered for use.

16. Superintendent. Contractor shall employ a superintendent to be in attendance at all times on the Project site during the performance of the work. Superintendent shall represent the Contractor, and communications given to the superintendent shall be binding as if given to the Contractor. The superintendent must be able to communicate verbally and in writing to both City Representatives and all contract labor regarding all aspects of work. The superintendent shall be approved by the CITY prior to the start of the work. If the designated superintendent is rejected, the Contractor shall immediately designate another superintendent in writing and submit to the City for consideration. The CITY shall have the authority to require the Contractor to remove its superintendent and/or alternate superintendent at any time and at no cost to the CITY.

17. Requirements for Recycling Construction Materials

The City of Torrance requires that all demolition projects and construction or remodeling projects valued at \$100,000 or more must recycle or reuse at least 65% of the materials that leave the project site and 100% of excavated soil and land-clearing debris and any universal wastes. A Waste Management Plan (WMP) form is part of the permit process for projects that meet these criteria. The WMP form is available at the permit counter or a downloadable form is available here:

<https://www.torranceca.gov/our-city/public-works/residential-trash-and-recycling/construction-and-demolition-material-recycling>

Step 1 - when applying for the permit, you must complete the WMP form stating that at least 65% of the waste generated by the project will be recycled or reused and that 100% of excavated soil and land-clearing debris and universal wastes will be recycled or reused.

Step 2 - collect and keep all receipts and records of the disposal, recycling, donations, and reuse of the materials from your project. Receipts must show material type, tonnage or weight, how the materials were treated, the facility used, and the address of the jobsite.

Step 3 - complete the WMP by attaching the receipts listing the actual disposal and recycling that occurred and submitting the WMP to Public Works for approval. This is required before your project can get its final inspection.

***Failure to fulfill the requirements of the WMP process will result in penalties of \$5,000 for construction projects and \$10,000 for demolition projects, as per the Torrance Municipal Code.***

For additional information concerning recycling or recycling facilities please contact the City of Torrance Public Works Department website at (310) 781-6900.

## **SECTION E. PAYMENTS TO CONTRACTOR AND CLAIMS**

1. Breakdown of Contract Prices. The Contractor shall, within ten (10) working days of receipt of a request from the City, submit a complete breakdown of lump sum bid prices showing the value assigned to each part of the work, including an allowance for profit and overhead. The breakdown shall include separate line for each subcontractor's bid and/or contract amount. In submitting the breakdown, the Contractor certifies that it is not unbalanced and that the value assigned to each part of the work represents its estimate of the actual cost, including profit and overhead, of performing that part of the work. The breakdown shall be sufficiently detailed to permit its use by the City Manager as one of the bases for evaluating requests for payment. No extra costs shall be allowed for these breakdowns.
2. Payment for Labor and Materials. The Contractor shall pay and cause the subcontractors to pay any and all accounts for labor, including Worker's Compensation premiums, State Unemployment and Federal Social Security payments and all other wage and salary deductions required by law. The Contractor also shall pay and cause the subcontractors to pay any and all accounts for services, equipment and materials used by it and the subcontractors during the performance of work under this contract. All such accounts shall be paid as they become due and payable. If requested by the City Manager, the Contractor shall immediately furnish the City with proof of payment of such accounts.
3. Additional Work. Payment for additional work and all expenditures in excess of the bid amount must be authorized in writing by the City Manager. Such authorization shall be obtained by the Contractor prior to engaging in additional work. It shall be the Contractor's sole responsibility to obtain written approval from the City Manager for any change(s) in material or in the work proposed by suppliers or subcontractors. No payment shall be made to the Contractor for additional work which has not been approved in writing, and the Contractor hereby agrees that it shall have no right to additional compensation for any work not so authorized.

4. Claims. The Contractor shall not be entitled to the payment of any additional compensation for any cause, including any act, or failure to act, by the City, or the happening of any event, thing or occurrence, unless he shall have given the City due written notice of potential claim as hereinafter specified.

The written notice of potential claim shall set forth the reasons for which the Contractor believes additional compensation will or may be due, the nature of the costs involved, and, insofar as possible, the amount of the potential claim. Said notice shall be submitted on a form approved by the City at least forty-eight (48) hours (two working days) in advance of performing said work, unless the work is of an emergency nature, in which case the Contractor shall notify and obtain approval from the Inspector prior to commencing the work. The City Manager may require the

Contractor to delay construction involving the claim, but no other work shall be delayed, and the Contractor shall not be allowed additional costs for any said delay but may be allowed on extension of time if the City Manager agrees that the work delayed is a controlling element of the Construction Schedule. The Contractor shall be required to submit any supporting data (or a detailed written explanation justifying further delay) within five (5) Work Days of a request from the City Manager and shall be responsible for any delays resulting from late and/or incomplete submittals. By submitting a Bid, the Contractor hereby agrees that this Section shall supersede Sections 6-4.3 and 6-4.4 of the Standard Specifications.

The City shall be the sole authority to interpret all plans, specifications and contract documents, and no claim shall be accepted which is based on the Contractor's ignorance, misunderstanding or noncompliance with any provision or portion thereof.

The Contractor shall be responsible to provide all data and to obtain all approvals required by said Specifications. No claims or extras shall be approved by the City unless all work was done under the direction of and subject to the approval of the Inspector.

It is the intention of this Subsection that differences between the parties arising under and by virtue of the Contract be brought to the attention of the City Manager at the earliest possible time in order that such matters may be settled, if possible, or other appropriate action promptly taken. The Contractor hereby agrees that it shall have no right to additional compensation for any claim that may be based on any such act, failure to act, event, thing or occurrence for which no written notice of potential claim as herein required was filed.

5. Noncompliance with Plans and Specifications. Failure of the Contractor to comply with any requirement of the Plans and Specifications, and/or to immediately remedy any such noncompliance upon notice from the City Manager, may result in suspension of Contract Progress Payments. Any Progress Payments so suspended shall remain in suspension until the Contractor's operations and/or submittals are brought into compliance to the satisfaction of the City Manager. No additional compensation shall be allowed as a result of suspension of Progress Payments due to noncompliance with the plans or specifications. The Contractor shall not be permitted to stop work due to said suspension of Progress Payments.

6. Request for Payment. Contractor shall submit all requests for payment on AIA Document G702 – Application and Certificate for Payment and G703- Continuation Sheet. For each item provide a column for listing: Item Number; Description of Work; Scheduled Value, Previous Application; Authorized Change Orders; Total completed and Stored to Date of Application; Percentage of Completion; Balance to Finish; and Retainage.

Prior to submittal of said form, all items for which payment is requested shall be checked and approved in writing by the City Manager. No payments will be made unless all back-up data is



submitted with the payment request and the Progress Payment Invoice is signed by both Contractor and Manager.

Back up data required to process payment shall include but not limited to the following:

- Copies of Certified payroll covering the payment period and proof of submission to the Department of Industrial Relations (DIR). Although this project is subject to compliance monitoring and enforcement by the DIR. The City reserves the right to review the certified payroll for compliance, request additional clarification and require the contractor to provide proof of payment such as cancelled checks prior to payment of invoice.
- Conditional and Unconditional lien releases from contractor, subcontractor and suppliers from which the contractor is expecting payment. Release forms must reflect amount of draw and through date of invoice payment.
  1. Conditional releases for the current pay period shall be provided with the current payment request.
  2. Unconditional releases for the immediate prior pay period shall be provided with the current payment request. Unconditional lien release forms must match the preceding Conditional release form in amount and through date and must be signed authorized company representative. Unconditional Lien Release on Final Payment with a zero balance is required from all material suppliers and subcontractors with the request for final payment (retention). All Unconditional Lien Release on Final Payments will be signed authorized company representative and notarized. Release forms can be found at the Contractors State License Board website at [https://www.cslb.ca.gov/Consumers/Legal\\_Issues\\_For\\_Consumers/Mechanics\\_Lien/Conditional\\_And\\_Unconditional\\_Waiver\\_Release\\_Form.aspx](https://www.cslb.ca.gov/Consumers/Legal_Issues_For_Consumers/Mechanics_Lien/Conditional_And_Unconditional_Waiver_Release_Form.aspx). The most update current lien release forms must be used.
- Any required outside agency reports and/or written observations.

The City will retain 5 percent of the value of all work done and materials installed as part security for fulfillment of the contract by Contractor. The full 5 percent retention will be retained on all payments for 35 days after the filing of the Notice of Completion. In addition 125% of the amount of the “unreleased” STOP notice will be withheld.

There shall be no separate payment for any relocations, barriers or forms, grading or temporary construction required to construct the improvements herein. Payment for these items shall be absorbed in the Bid Prices for the applicable work to which they are appurtenant, and no extra costs shall be allowed.

The payment of amounts due to the Contractor shall be contingent upon the Contractor furnishing the City with a release of all claims against the City arising by virtue of the Contract related to said amounts. It is the contractor’s responsibility to provide the correct releases in order to obtain payment by the City.

7. Preconstruction Meeting. The City will hold a preconstruction meeting with awarded contractor and discuss procedural, and mobilization issues. The contractor needs to have key administrative staff attend such as: project manager, superintendent, administrative personnel who handle the certified payroll and pay requests. Attendees can also include subcontractors and major suppliers/fabricators.

In addition to staffing preconstruction meeting, the awarded contractor will need to bring the following to the preconstruction meeting for review and discussion.

- Project Schedule (see Special Provisions section D General Procedures #10 for details)
- Schedule of Values (see Special Provisions section E, Payment to Contractors #1 for details)
- Submittal Log, list all the submittals you plan to submit for review.
- List of subcontractors and contact information
- Prime Contractor's Safety Plan
- Example of Daily Project Report and Daily Sign In Sheet for Review (see #8 below for details)
- Prime contractors' signed contract, performance and labor and material bonds, insurance certificates with endorsements, workers compensation certificate and Torrance Business License. The exact verbiage of additionally insured clause for the insurance is found Item 18 of the contract. The certificate needs to be endorsed as well naming the City as additional insured.
- Signed contracts for subcontractors, insurance certificates with endorsements, workers compensation certificates. Subcontractor's insurance must also meet the contract limits and language and be endorsed.

8. Daily Project Report and Contractor Daily Sign In Sheets.

The contractor will provide daily project reports and/or contractor daily sign in sheets on a daily basis (next working day) during the entire project's onsite work. At minimum the report/sign in sheets consist of the following:

Daily Project Report

- Date, Day of the Week, and Weather
- List all staffing by prime and subcontractors each, include classification and count of persons within the specific classification and denote journeyman vs. apprentice.
- List all deliveries of equipment and materials to site.
- List onsite discussions, meetings any resolution or direction given.
- List progress of the project (i.e. was scheduled and completed).
- List all visitors to the site.

Daily Sign In Sheet

- Date and Day of the Week
- Employee Name (printed), company and classification of work, denote journeyman vs. apprentice for each classification.
- Time started and time completed, any breaks.
- Employee signature of the individual worker (confirming reported time)

**PART D**  
**BID DOCUMENTS**

BIDDER'S PROPOSAL

**BID FOR ELEVATOR MODERNIZATION AT KATY GEISSERT CIVIC CENTER LIBRARY  
B2021-13**

In accordance with the Notice Inviting Bids pertaining to the receiving of sealed proposals by the City Clerk of the City of Torrance for the above titled improvement, the undersigned hereby proposes to furnish all work to be performed in accordance with the Plans, Specifications, and Contract Documents, prepared by HKA Elevator Consulting, Inc. and the City of Torrance for the bid as set forth in the following schedules.

Assignment of Contractor's values:

DESCRIPTION	TOTAL AMOUNT IN FIGURES*	DOLLAR AMOUNT IN WORDS
Bidder agrees to perform all work necessary for the elevator modernization as set out in the Specification Section <u>142210</u> February 5, 2021 for the lump sum of:	\$	
<b>ITEMIZED PRICES:</b>		
Bidder agrees to provide the following equipment or services as described in the specifications. The cost of this equipment or services <u>is not included</u> in the Base Bid.		
<b>ITEMIZED PRICE NUMBER 1;</b> Modernization Maintenance: Quote price <b><u>not included in Base Bid</u></b> to provide full preventative maintenance for Elevator Nos. <u>1</u> from award of contract through the completion of the modernization of Elevator Nos. <u>1</u> .	\$  Monthly Amount to be billed \$	
<b>ITEMIZED PRICE NUMBER 2;</b> Warranty Maintenance: Quote price <b><u>not included in Base Bid</u></b> to provide full preventative maintenance for Elevator Nos. <u>1</u> for a period of twelve (12) months after modernization and acceptance of all elevators.	\$  Monthly Amount to be billed \$	
<b>SCHEDULE:</b>		
The work identified in these Bidding Documents shall be scheduled to begin within ten (10) days after the date of the Owner's Written Notice to Proceed and be completed within _____ calendar days. (Write out number of Days)(# of days)		
The Bidder's estimate of time required to contract _____ calendar days. (Write out number of Days)(# of days)		
The Bidder's estimate of time required to provide submittals _____ calendar days. (Write out number of Days)(# of days)		
The Bidder's estimate of time required to manufacture, deliver materials, and commence the work on site is _____ calendar days. (Write out number of Days)(# of days)		
The Bidder's estimate of time required to complete the work after commencement of the work on site is _____ calendar days for each elevator and _____ calendar days for all elevators. (Write out number of Days)(# of days) (Write out number of Days)(# of days)		
<b>ALTERNATIVE PRICES:</b>		
The Bidder agrees to provide the following equipment or service as described in the Specification Section 142210 - Paragraph <u>1.12</u> ALTERNATES in addition to or in lieu of the applicable equipment or services included in the Base Bid. The cost of this equipment or services will be added or deducted from the Base Bid price as indicated.		
<b>ALTERNATE NUMBER 1:</b> New Cylinder and Piston	Add Deduct \$	



## MODERNIZATION LABOR RATE FORM

### HOURLY RATES FOR DURATION OF THE PROJECT

1. Contractor's Regular Billing Rates During Normal Working (6:00 a.m. to 6:00 p.m.) Hours, Monday through Friday:

\$ \_\_\_\_\_ Per mechanic hour.

\$ \_\_\_\_\_ Per \*team hour.

2. Contractor's Overtime Billing Rates Outside of Normal Working Hours:

Monday through Friday:

\$ \_\_\_\_\_ Per mechanic hour.

\$ \_\_\_\_\_ Per \*team hour.

Saturday:

\$ \_\_\_\_\_ Per mechanic hour.

\$ \_\_\_\_\_ Per \*team hour.

Sundays & Holidays:

\$ \_\_\_\_\_ Per mechanic hour.

\$ \_\_\_\_\_ Per \*team hour.

**\* - A team is one mechanic and one helper**

**END OF MODERNIZATION LABOR RATE FORM**

**MAINTENANCE LABOR RATE FORM**

**HOURLY RATES FOR DURATION OF THE PROJECT**

1. Contractor's Regular Billing Rates During Normal Working (6:00 a.m. to 6:00 p.m.) Hours, Monday through Friday:

\$ \_\_\_\_\_ Per mechanic hour.

\$ \_\_\_\_\_ Per \*team hour.

2. Contractor's Overtime Billing Rates Outside of Normal Working Hours:

Monday through Friday:

\$ \_\_\_\_\_ Per mechanic hour @ 1.5

\$ \_\_\_\_\_ Per mechanic hour @ 1.7

\$ \_\_\_\_\_ Per mechanic hour @ 2.0

\$ \_\_\_\_\_ Per \*team hour @ 2.0

Saturday:

\$ \_\_\_\_\_ Per mechanic hour @ 1.7

\$ \_\_\_\_\_ Per \*team hour @ 2.0

Sundays & Holidays:

\$ \_\_\_\_\_ Per mechanic hour @ 2.0

\$ \_\_\_\_\_ Per \*team hour @ 2.0

**\* - A team is one mechanic and one helper**

***END OF MAINTENANCE LABOR RATE FORM***

**ACKNOWLEDGMENT OF ADDENDA RECEIVED**

B2021-13

The Bidder shall acknowledge the receipt of addenda by placing an "X" by each addendum received.

Addendum No. 1 \_\_\_\_\_

Addendum No. 2 \_\_\_\_\_

Addendum No. 3 \_\_\_\_\_

Addendum No. 4 \_\_\_\_\_

Addendum No. 5 \_\_\_\_\_

Addendum No. 6 \_\_\_\_\_

Addendum No. 7 \_\_\_\_\_

Addendum No. 8 \_\_\_\_\_

If an addendum or addenda have been issued by the City and not noted above as being received by the Bidder, the Bid Proposal may be rejected.

\_\_\_\_\_  
Bidder's Signature

\_\_\_\_\_  
Date





**CONTRACTOR'S AFFIDAVIT B2021-13 (CONTINUED)**

7. That the Contractor did not, directly or indirectly, submit the Contractor's bid price or any breakdown thereof, or the contents thereof, or divulge information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, or to any individual or group of Individuals, except to the City of Torrance, or to any person or persons who have a partnership or other financial interest with said Contractor in its business.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

Subscribed and Sworn to \_\_\_\_\_ before me this \_\_\_\_\_  
(Contractor)

of \_\_\_\_\_, 20\_\_\_\_\_ \_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Seal) Notary Public in and for said County and State.

**BID BOND**

B2021-13

**KNOW ALL MEN BY THESE PRESENTS:** That we, \_\_\_\_\_

\_\_\_\_\_ as principal, and \_\_\_\_\_ as sureties, are held and firmly bound unto the City of Torrance, State of California, in the penal sum of \_\_\_\_\_ dollars (\$\_\_\_\_\_), for the payment whereof we hereby bind ourselves, our successors, heirs, executors or administrators jointly and severally, firmly by these presents.

The condition of this obligation is such that, whereas the above bounded principal is about to file with and submit to the City of Torrance a bid or proposal for the performance of certain work as required in the City of Torrance, Project No. **B2021-13**, said work being: **ELEVATOR MODERNIZATION AT KATY GEISSERT CIVIC CENTER LIBRARY** in compliance with the Plans therefore under an invitation of said City contained in a notice or advertisement for bids or proposals; now if the bid or proposal of said principal shall be accepted and if said work be thereupon awarded to the principal by said City and if the said principal shall enter into a contract with the said City in accordance with said bid or proposal, or if the bid or proposal of the said principal is rejected, then this bond shall be void and of no effect and otherwise in full force and effect.

**WITNESS** our hands this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_.

\_\_\_\_\_  
Principal

\_\_\_\_\_  
Surety/Attorney-in-Fact

\_\_\_\_\_  
Signature

Name: \_\_\_\_\_

Local Address: \_\_\_\_\_

\_\_\_\_\_

Phone No.: \_\_\_\_\_

Fax No.: \_\_\_\_\_

**LIST OF SUBCONTRACTORS**

The Bidder is required to fill in the following blanks in accordance with the provisions of the Subletting and Subcontracting Fair Practices Act (Chapter 2 of Division 5, Title 1 of the Government Code of the State of California) and should familiarize itself with Section 2-3 of the Standard Specifications.

1. Name Under Which Subcontractor is Licensed: \_\_\_\_\_

Subcontractor's Address: \_\_\_\_\_

Specific Description of Sub-Contract: \_\_\_\_\_

License Number: \_\_\_\_\_ CA License Classification/Type: \_\_\_\_\_

Public Works Registration (PWCR) Number: \_\_\_\_\_

2. Name Under Which Subcontractor is Licensed: \_\_\_\_\_

Subcontractor's Address: \_\_\_\_\_

Specific Description of Sub-Contract: \_\_\_\_\_

License Number: \_\_\_\_\_ CA License Classification/Type: \_\_\_\_\_

Public Works Registration (PWCR) Number: \_\_\_\_\_

3. Name Under Which Subcontractor is Licensed: \_\_\_\_\_

Subcontractor's Address: \_\_\_\_\_

Specific Description of Sub-Contract: \_\_\_\_\_

License Number: \_\_\_\_\_ CA License Classification/Type: \_\_\_\_\_

Public Works Registration (PWCR) Number: \_\_\_\_\_

4. Name Under Which Subcontractor is Licensed: \_\_\_\_\_

Subcontractor's Address: \_\_\_\_\_

Specific Description of Sub-Contract: \_\_\_\_\_

License Number: \_\_\_\_\_ CA License Classification/Type: \_\_\_\_\_

Public Works Registration (PWCR) Number: \_\_\_\_\_

5. Name Under Which Subcontractor is Licensed: \_\_\_\_\_

Subcontractor's Address: \_\_\_\_\_

Specific Description of Sub-Contract: \_\_\_\_\_

License Number: \_\_\_\_\_ CA License Classification/Type: \_\_\_\_\_

Public Works Registration (PWCR) Number: \_\_\_\_\_

6. Name Under Which Subcontractor is Licensed: \_\_\_\_\_

Subcontractor's Address: \_\_\_\_\_

Specific Description of Sub-Contract: \_\_\_\_\_

License Number: \_\_\_\_\_ CA License Classification/Type: \_\_\_\_\_

Public Works Registration (PWCR) Number: \_\_\_\_\_

7. Name Under Which Subcontractor is Licensed: \_\_\_\_\_

Subcontractor's Address: \_\_\_\_\_

Specific Description of Sub-Contract: \_\_\_\_\_

License Number: \_\_\_\_\_ CA License Classification/Type: \_\_\_\_\_

Public Works Registration (PWCR) Number: \_\_\_\_\_

Subcontractors must be properly licensed under the laws of the State of California for the type of work which they are to perform. Do not list alternate subcontractors for the same work.

The Bidding Contractor must include each subcontractor's contract license number (AB 44). An inadvertent error in listing the subcontractor's license number shall not be grounds for filing a bid protest or grounds for considering the bid nonresponsive, if the corrected contractor's license number is submitted to the public entity by the prime contractor within 24 hours after the bid opening-provided that the correct license number corresponds to the submitted name and location of the subcontractor.

No contractor or subcontractor may be listed on a bid proposal for a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1 (a)].

No contractor or subcontractor may be awarded a contract for public work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

**REFERENCES**

Bidder must have completed at least three (3) elevator modernization projects of a similar size and scope within the last five (5) years. The references must reflect this requirement. ***Do not list a reference more than once or include the City of Torrance as a reference.***

1	Name of Firm/Agency:	
	Street Address:	
	City: State, Zip Code:	
	Name of Person to Contact:	
	Phone Number of Contact:	
	Email Address of Contact:	
	Title of Project:	
	Project Location:	
	Date of Completion:	
	Contract Amount:	
2	Name of Firm/Agency:	
	Street Address:	
	City: State, Zip Code:	
	Name of Person to Contact:	
	Phone Number of Contact:	
	Email Address of Contact:	
	Title of Project:	
	Project Location:	
	Date of Completion:	
	Contract Amount:	
3	Name of Firm/Agency:	
	Street Address:	
	City: State, Zip Code:	
	Name of Person to Contact:	
	Phone Number of Contact:	
	Email Address of Contact:	
	Title of Project:	
	Project Location:	
	Date of Completion:	
	Contract Amount:	

Contractor's License No.: \_\_\_\_\_ Class: \_\_\_\_\_

Contractor's Public Works Registration (PWCR) Number: \_\_\_\_\_

Date first obtained: \_\_\_\_\_

Has License ever been suspended or revoked? \_\_\_\_\_

If yes, describe when and why \_\_\_\_\_

Any current claims against License or Bond? \_\_\_\_\_

If yes, describe claims: \_\_\_\_\_

Type of entity (check one)

\_\_\_\_\_ Incorporated \_\_\_\_\_ Partnership \_\_\_\_\_ Sole Proprietorship

If incorporated, in what state \_\_\_\_\_

Federal Tax ID Number # \_\_\_\_\_

Principals in Company (List all - attach additional sheets if necessary):

<u>NAME</u>	<u>TITLE</u>	<u>LICENSE NO.</u> (If Applicable)
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

**Bidder's Information**

The bidder must provide a detailed list of the trades and the description of the work they will perform with their own company for this project.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_

NOT FOR PRINT



**PART E**

**DOCUMENTS TO BE COMPLETED  
AND DELIVERED TO CITY AS PART  
OF CONTRACT WITH THE CITY**

**PERFORMANCE BOND**

**KNOW ALL MEN BY THESE PRESENTS:**

That we, \_\_\_\_\_ as Principal(s) and \_\_\_\_ a \_\_\_\_\_ corporation, incorporated, organized, and existing under the laws of the State of \_\_\_\_\_, and authorized to execute bonds and undertakings and to do a general surety business in the State of California, as Surety, are jointly and severally held and firmly bound unto the City of Torrance, a municipal corporation, located in the County of Los Angeles, State of California, in the full and just sum of: \_\_\_\_\_ Dollars (\$ \_\_\_\_\_), lawful money of the United States of America, for the payment of which sum, well and truly to be made, we bind ourselves and our respective heirs, executors, administrators, representative, successors and assigns, jointly and severally, firmly by these presents.

**THE CONDITION OF THIS OBLIGATION IS SUCH**, that: WHEREAS, said Principal(s) have/has entered into, or are/is about to enter into, a certain written contract or agreement, dated as of the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, with the said City of Torrance for the **ELEVATOR MODERNIZATION AT KATY GEISSERT CIVIC CENTER LIBRARY, B2021-13**, all as is more specifically set forth in said contract or agreement, a full, true and correct copy of which is hereunto attached, and hereby referred to and by this reference incorporated herein and made a part hereof;

**NOW, THEREFORE**, if the said Principal(s) shall faithfully and well and truly do, perform and complete, or cause to be done, performed and complete, each and all of the covenants, terms, conditions, requirements, obligations, acts and things, to be met, done or performed by said Principal(s), including any guarantee period as set forth in, or required by, said contract or agreement, all at and within the time or times, and in the manner as therein specified and contemplated, then this bond and obligation shall be null and void; otherwise it shall be and remain in full force, virtue and effect.

The said Surety, for value received, hereby stipulates and agrees that no amendment, change, extension of time, alteration or addition to said contract or agreement, or of any feature or item or items of performance required therein or there under, shall in any manner affect its obligations on or under this bond; and said Surety does hereby waive notice of any such amendment, change, extension of time, alteration, or addition to said contract or agreement, and of any feature or item or items of performance required therein or there under.

**PERFORMANCE BOND B2021-13 (CONTINUED)**

In the event any suit, action or proceedings is instituted to recover on this bond or obligation, said Surety will pay, and does hereby agree to pay, as attorney's fees for said City, such sum as the Court in any such suit, action or proceeding may adjudge reasonable.

**EXECUTED, SEALED AND DATED** this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

CORPORATE SEAL

PRINCIPAL(S):

BY \_\_\_\_\_

BY \_\_\_\_\_

CORPORATE SEAL

SURETY:

BY \_\_\_\_\_

Name: \_\_\_\_\_

Local Address: \_\_\_\_\_

\_\_\_\_\_

Phone No.: \_\_\_\_\_

Fax No.: \_\_\_\_\_

**LABOR AND MATERIAL BOND**  
B2021-13

**KNOW ALL MEN BY THESE PRESENTS:**

That we, \_\_\_\_\_  
As Principal(s) and \_\_\_\_\_ a  
corporation, incorporated, organized, and existing under the laws of the State of  
\_\_\_\_\_, and authorized to execute bonds and undertakings and to do a general surety  
business in the State of California, as Surety, are jointly and severally held and firmly bound unto:

- (a) The State of California for the use and benefit of the State Treasurer, as ex-officio Treasurer and custodian of the Unemployment Fund of said State; and
- (b) The City of Torrance, California; and
- (c) Any and all persons who do or perform or who did or performed work or labor upon or in connection with the work or improvement referred to in the contract or agreement hereinafter mentioned; and
- (d) Any and all materialmen, persons, companies, firms, association, or corporations, supplying or furnishing any materials, provisions, provender, transportation, appliances or power, or other supplies used in, upon, for or about or in connection with the performance of the work or improvement contracted to be executed, done, made or performed under said contract or agreement; and
- (e) Any and all persons, companies, firms, associations, or corporations furnishing, renting, or hiring teams, equipment, implements or machinery for, in connection with, or contributing to, said work to be done or improvement to be made under said contract or agreement; and
- (f) Any and all persons, companies, firms, associations, or corporations who supply both work and materials;

and whose claim has not been paid by said Principal(s), in full and just sum of \_\_\_\_\_ Dollars (\$\_\_\_\_\_), lawful money of the United States of America, for the payment of which will and truly to be made, said Principal(s) and said Surety do hereby bind themselves and their respective heirs, executors, administrators, representatives, successors and assigns, jointly and severally, firmly by these presents.

**LABOR AND MATERIAL BOND (CONTINUED)**

**THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH, THAT: WHEREAS,** said Principal(s) have/has entered into or are/is about to enter into a certain written contract or agreement, dated as of the \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_, with the City of Torrance for the **ELEVATOR MODERNIZATION AT KATY GEISSERT CIVIC CENTER LIBRARY; B2021-13**, all as is more specifically set forth in said contract or agreement, a full, true and correct copy of which is hereunto attached, and hereby referred to and by this reference incorporated herein and made a part hereof;

**NOW, THEREFORE,** if the said Principal(s) (or any of his/her, its, or their subcontractors) under said contract or agreement fails or fail to pay:

- (1) For any materials, provisions, provender, transportation, appliances, or power, or other supplies; or
- (2) For the hire of any teams, equipment, implements, or machinery; or
- (3) For any work or labor; supplies, furnished, provided, used, done or performed in, upon, for or about or in connection with the said work or improvement; or
- (4) For amounts due under the Unemployment Insurance Act of the State of California with respect to such work or improvement;

the Surety on this bond will pay the same in an amount not exceeding the sum hereinabove specified in this bond; and, also, in case suit is brought upon this bond, said Surety will (and does hereby agree to) pay a reasonable attorney's fee, to be fixed and taxed as costs, and included in the judgment therein rendered.

This bond shall (and it is hereby made to) insure to the benefit of any and all persons entitled to file claims under Section 1192.1 of the Code of Civil Procedure of the State of California, so as to give a right of action to them or their assigns in any suit brought upon this bond, all as contemplated under the provisions of Section 4205 of the Government Code, and of Chapter 1 of Title 4 of Part 3 of the Code of Civil Procedure, of the State of California.

This bond is executed and filed in connection with said contract or agreement hereunto attached to comply with each and all of the provisions of the laws of the State of California above mentioned or referred to, and of all amendments thereto, and the obligors so intend and do hereby bind themselves accordingly.

**LABOR AND MATERIAL BOND B2021-13 (CONTINUED)**

The said Surety, for value received, hereby stipulates and agrees that no amendment, change, extension of time, alteration, or addition to said contract or agreement, or of any feature or item or items of performance required therein or thereunder, shall in any manner affect its obligations on or under this bond; and said Surety does hereby waive notice of any such amendment, change, extension of time, alteration, or addition to said contract or agreement, and of any feature or item or items of performance required therein or thereunder.

**EXECUTED, SEALED AND DATED** this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

CORPORATE SEAL

PRINCIPAL:

BY \_\_\_\_\_

CORPORATE SEAL

SURETY:

BY \_\_\_\_\_

Name: \_\_\_\_\_

Local Address: \_\_\_\_\_

\_\_\_\_\_

Phone No.: \_\_\_\_\_

Fax No.: \_\_\_\_\_

## **CONTRACT SERVICES AGREEMENT**

This CONTRACT SERVICES AGREEMENT (“Agreement”) is made and entered into as of Date (the “Effective Date”), by and between the CITY OF TORRANCE, a municipal corporation (“CITY”), and Contractor Name, type of entity (“CONTRACTOR”).

### **RECITALS:**

- A. The CITY wishes to retain the services of an experienced and qualified CONTRACTOR to Description of Project Project Name & Bid Number;
- B. In order to obtain the desired services, The CITY has circulated a Notice Inviting Bids for the Description of Notice Inviting Bid Project Name & Bid Number (the “NIB”); and
- C. CONTRACTOR has submitted a Bid (the “Bid”) in response to the NIB. CONTRACTOR represents that it is qualified to perform those services requested in the Plans and Specifications. Based upon its review of all Bids submitted in response to the NIB, The CITY is willing to award the contract to CONTRACTOR.

### **AGREEMENT:**

#### **1. SERVICES TO BE PERFORMED BY CONTRACTOR**

CONTRACTOR will provide the services and install those materials listed in the Plans and Specifications, which are on file in the General Services Department. The NIB and the Plans and Specifications are made a part of this Agreement. A copy of the Bid is attached as Exhibit A.

#### **2. TERM**

Unless earlier terminated in accordance with Paragraph 4 below, this Agreement will continue in full force and effect for One/Two Year(s) from the Effective Date.

#### **3. COMPENSATION**

- A. CONTRACTOR’s Fee.

For services rendered pursuant to this Agreement, CONTRACTOR will be paid in accordance with CONTRACTOR’s Bid; provided, however, that in no event will the total amount of money paid the CONTRACTOR, for services initially contemplated by this Agreement, exceed the sum of \$Insert Dollar Amount (“Agreement Sum”), plus a contingency of \$Insert Dollar Amount, if first approved in writing by the CITY.

- B. Schedule of Payment.  
Provided that the CONTRACTOR is not in default under the terms of this Agreement, upon presentation of an invoice, CONTRACTOR will be paid monthly, within 30 days after the date of the monthly invoice.

#### 4. TERMINATION OF AGREEMENT

##### A. Termination by CITY for Convenience.

1. CITY may, at any time, terminate the Agreement for CITY's convenience and without cause.
2. Upon receipt of written notice from CITY of such termination for CITY's convenience, CONTRACTOR will:
  - a) cease operations as directed by CITY in the notice;
  - b) take actions necessary, or that CITY may direct, for the protection preservation of the work; and
  - c) except for work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.
3. In case of such termination for CITY's convenience, CONTRACTOR will be entitled to receive payment for work executed; and costs incurred by reason of such termination, along with reasonable overhead and profit on the work not executed.

##### B. Termination for Cause.

1. If either party fails to perform any term, covenant or condition in this Agreement and that failure continues for 15 calendar days after the nondefaulting party gives the defaulting party notice of the failure to perform, this Agreement may be terminated for cause; provided, however, that if during the notice period the defaulting party has promptly commenced and continues diligent efforts to remedy the default, the defaulting party will have such additional time as is reasonably necessary to remedy the default.
2. In the event this Agreement is terminated for cause by the default of the CONTRACTOR, the CITY may, at the expense of the CONTRACTOR and its surety, complete this Agreement or cause it to be completed. Any check or bond delivered to the CITY in connection with this Agreement, and the money payable thereon, will be forfeited to and remain the property of the CITY. All moneys due the CONTRACTOR under the terms of this Agreement will be retained by the CITY, but the retention will not release the CONTRACTOR and its surety from liability for the default. Under these circumstances, however, the CONTRACTOR and its surety will be credited with the amount of money retained, toward any amount by which the cost of completion exceeds the Agreement Sum and any amount authorized for extra services.
3. Termination for cause will not affect or terminate any of the rights of the CITY as against the CONTRACTOR or its surety then existing, or which may thereafter accrue because of the default; this provision is in addition to all other rights and remedies available to the CITY under law.

##### C. Termination for Breach of Law.

In the event the CONTRACTOR or any of its officers, directors, shareholders, employees, agents, subsidiaries or affiliates is convicted (i) of a criminal offense as an incident to



obtaining or attempting to obtain a public or private contract or subcontract, or in the performance of a contract or subcontract; (ii) under state or federal statutes of embezzlement, theft, forgery, bribery, falsification or destruction of records, receiving stolen property, or any other offense indicating a lack of business integrity or business honesty which currently, seriously, and directly affects responsibility as a public consultant or contractor; (iii) under state or federal antitrust statutes arising out of the submission of bids or proposals; or (iv) of violation of Paragraph 19 of this Agreement; or for any other cause the CITY determines to be so serious and compelling as to affect CONTRACTOR's responsibility as a public consultant or contractor, including but not limited to, debarment by another governmental agency, then the CITY reserves the unilateral right to terminate this Agreement or to impose such other sanctions (which may include financial sanctions, temporary suspensions or any other condition deemed appropriate short of termination) as it deems proper. The CITY will not take action until CONTRACTOR has been given notice and an opportunity to present evidence in mitigation.

**5. FORCE MAJEURE**

If any party fails to perform its obligations because of strikes, lockouts, labor disputes, embargoes, acts of God, inability to obtain labor or materials or reasonable substitutes for labor or materials, governmental restrictions, governmental regulations, governmental controls, judicial orders, enemy or hostile governmental action, civil commotion, fire or other casualty, or other causes beyond the reasonable control of the party obligated to perform, then that party's performance shall be excused for a period equal to the period of such cause for failure to perform.

**6. RETENTION OF FUNDS**

CONTRACTOR authorizes the CITY to deduct from any amount payable to CONTRACTOR (whether or not arising out of this Agreement) any amounts the payment of which may be in dispute or that are necessary to compensate the CITY for any losses, costs, liabilities, or damages suffered by the CITY, and all amounts for which the CITY may be liable to third parties, by reason of CONTRACTOR's negligent acts or omissions or willful misconduct in performing or failing to perform CONTRACTOR's obligations under this Agreement. In the event that any claim is made by a third party, the amount or validity of which is disputed by CONTRACTOR, or any indebtedness exists that appears to be the basis for a claim of lien, the CITY may withhold from any payment due, without liability for interest because of the withholding, an amount sufficient to cover the claim. The failure of the CITY to exercise the right to deduct or to withhold will not, however, affect the obligations of CONTRACTOR to insure, indemnify, and protect the CITY as elsewhere provided in this Agreement.

**7. THE CITY'S REPRESENTATIVE**

City Representative is designated as the "City Representative," authorized to act in its behalf with respect to the work and services specified in this Agreement and to make all decisions in connection with this Agreement. Whenever approval, directions, or other actions are required by the CITY under this Agreement, those actions will be taken by the City Representative, unless otherwise stated. The City Manager has the right to designate another City Representative at any time, by providing notice to CONTRACTOR.

**8. CONTRACTOR REPRESENTATIVE(S)**

The following principal(s) of CONTRACTOR are designated as being the principal(s) and representative(s) of CONTRACTOR authorized to act in its behalf with respect to the work specified in this Agreement and make all decisions in connection with this Agreement:

Representative 1

Representative 2

**9. INDEPENDENT CONTRACTOR**

The CONTRACTOR is, and at all times will remain as to the CITY, a wholly independent contractor. Neither the CITY nor any of its agents will have control over the conduct of the CONTRACTOR or any of the CONTRACTOR's employees, except as otherwise set forth in this Agreement. The CONTRACTOR may not, at any time or in any manner, represent that it or any of its agents or employees are in any manner agents or employees of the CITY. CITY has no duty, obligation, or responsibility to CONTRACTOR's agents or employees under the Affordable Care Act. CONTRACTOR is solely responsible for any tax penalties associated with the failure to offer affordable coverage to its agents and employees under the Affordable Care Act and any other liabilities, claims and obligations regarding compliance with the Affordable Care Act with respect to CONTRACTOR's agents and employees. CITY is not responsible and shall not be held liable for CONTRACTOR's failure to comply with CONTRACTOR's duties, obligations, and responsibilities under the Affordable Care Act. CONTRACTOR agrees to defend, indemnify and hold CITY harmless for any and all taxes and penalties that may be assessed against CITY as a result of CONTRACTOR's obligations under the Affordable Care Act relating to CONTRACTOR's agents and employees.

**10. BUSINESS LICENSE**

The CONTRACTOR must obtain a City business license prior to the start of work under this Agreement, unless CONTRACTOR is qualified for an exemption.

**11. OTHER LICENSES AND PERMITS**

CONTRACTOR warrants that it has all professional, contracting and other permits and licenses required to undertake the work contemplated by this Agreement.

**12. FAMILIARITY WITH WORK**

By executing this Agreement, CONTRACTOR warrants that CONTRACTOR (a) has thoroughly investigated and considered the scope of services to be performed, (b) has carefully considered how the services should be performed, and (c) fully understands the facilities, difficulties and restrictions attending performance of the services under this Agreement. If the services involve work upon any site, CONTRACTOR warrants that CONTRACTOR has or will investigate the site and is or will be fully acquainted with the conditions there existing, prior to commencement of services set forth in this Agreement. Should CONTRACTOR discover any latent or unknown conditions that will materially affect the performance of the services set forth in this Agreement, CONTRACTOR must immediately inform the CITY of that fact and may not proceed except at CONTRACTOR's risk until written instructions are received from the CITY.

**13. CARE OF WORK**

CONTRACTOR must adopt reasonable methods during the life of the Agreement to furnish continuous protection to the work, and the equipment, materials, papers, documents, plans, studies and other components to prevent losses or damages, and will be responsible for all damages, to persons or property, until acceptance of the work by the CITY, except those losses or damages as may be caused by the CITY's own negligence.

**14. CONTRACTOR'S ACCOUNTING RECORDS; OTHER PROJECT RECORDS**

Records of the CONTRACTOR's time pertaining to the project, and records of accounts between the CITY and the CONTRACTOR, will be kept on a generally recognized accounting basis. CONTRACTOR will also maintain all other records, including without limitation specifications, drawings, progress reports and the like, relating to the project. All records will be available to the CITY during normal working hours. CONTRACTOR will maintain these records for three years after final payment.

**15. PREVAILING WAGE**

All Services rendered pursuant to this agreement must be provided in accordance with all ordinances, resolutions, statutes, rules, regulations, and laws of City and any Federal, State, or local governmental agency of competent jurisdiction. Contractor is aware of the requirements of California Labor Code Sections 1720, et seq., and 1770, et seq., as well as of California Code of Regulations, Title 8, Sections 1600, et seq., (collectively, the "Prevailing Wage Laws"), which require the payment of prevailing wage rates and the performance of other requirements on "Public works" and "Maintenance" projects. If the Services are being performed as part of an applicable "Public works" or "Maintenance" project, as defined by the Prevailing Wage Laws, and if the total compensation is ONE THOUSAND DOLLARS (\$1,000) or more, Contractor agrees to fully comply with the Prevailing Wage Laws including, but not limited to, requirements related to the maintenance of payroll records and the employment of apprentices.

Pursuant to California Labor Code Section 1725.5, no contractor or subcontractor may be awarded a contract for public work on a "Public works" project unless registered with the California Department of Industrial Relations ("DIR") at the time the contract is awarded. If the Services are being performed as part of an applicable "Public works" or "Maintenance" project, as defined by the Prevailing Wage Laws, this project is subject to compliance monitoring and enforcement by the California Department of Industrial Relations ("DIR"). Contractor will maintain and will require all subcontractors to maintain valid and current DIR Public Works Contractor registration during the term of this Agreement. Contractor must notify City in writing immediately, and in no case more than twenty-four (24) hours, after receiving any information that Contractor's or any of its subcontractor's DIR registration status has been suspended, revoked, expired, or otherwise changed.

It is understood that it is the responsibility of Contractor to determine the correct salary scale. Contractor will make copies of the prevailing rates of per diem wages for each craft, classification, or type of worker needed to execute the Services available to interested parties upon request, and post copies at Contractor's principal place of business and at the project site, if any. The statutory penalties for failure to pay prevailing wage or to comply with State wage and hour laws will be enforced. Contractor must forfeit to City TWENTY FIVE DOLLARS (\$25.00) per day for each worker who works in excess of the minimum working hours when Contractor

does not pay overtime. In accordance with the provisions of Labor Code Sections 1810 et seq., eight (8) hours is the legal working day.

Contractor must also comply with State law requirements to maintain payroll records and must provide for certified records and inspection of records as required by California Labor Code Section 1770 et seq., including Section 1776. Contractor will defend (with counsel selected by City), indemnify, and hold City, its elected officials, officers, employees, and agents free and harmless from any claim or liability arising out of any failure or alleged failure to comply with the Prevailing Wage Laws. It is agreed by the parties that, in connection with performance of the Services, including, without limitation, any and all "Public works" (as defined by the Prevailing Wage Laws), Contractor will bear all risks of payment or non-payment of prevailing wages under California law and/or the implementation of Labor Code Section 1781, as the same may be amended from time to time, and/or any other similar law. Contractor acknowledges and agrees that it will be independently responsible for reviewing the applicable laws and regulations and effectuating compliance with those laws. Contractor will require the same of all subcontractors.

**16. INDEMNIFICATION**

CONTRACTOR will indemnify, defend, and hold harmless CITY, the City Council, each member thereof, present and future, its officers, agents and employees from and against any and all liability, expenses, including defense costs and legal fees, and claims for damages whatsoever, including, but not limited to, those arising from breach of contract, bodily injury, death, personal injury, property damage, loss of use, or property loss however the same may be caused and regardless of the responsibility for negligence. The obligation to indemnify, defend and hold harmless includes, but is not limited to, any liability or expense, including defense costs and legal fees, arising from the negligent acts or omissions, or willful misconduct of CONTRACTOR, its officers, employees, agents, subcontractors or vendors. It is further agreed, CONTRACTOR's obligations to indemnify, defend and hold harmless will apply even in the event of concurrent negligence on the part of CITY, the City Council, each member thereof, present and future, or its officers, agents and employees, except for liability resulting solely from the negligence or willful misconduct of CITY, its officers, employees or agents. Payment by CITY is not a condition precedent to enforcement of this indemnity. In the event of any dispute between CONTRACTOR and CITY, as to whether liability arises from the sole negligence of the CITY or its officers, employees, agents, subcontractors or vendors, CONTRACTOR will be obligated to pay for CITY's defense until such time as a final judgment has been entered adjudicating the CITY as solely negligent. CONTRACTOR will not be entitled in the event of such a determination to any reimbursement of defense costs including but not limited to attorney's fees, expert fees and costs of litigation.

**17. NON-LIABILITY OF THE CITY'S OFFICERS AND EMPLOYEES**

No officer or employee of the CITY will be personally liable to CONTRACTOR, in the event of any default or breach by the CITY or for any amount that may become due to CONTRACTOR.

**18. INSURANCE**

- A. CONTRACTOR and its subcontractors must maintain for the duration of the Agreement at its sole expense the following insurance, which will be full coverage not subject to self-insurance provisions:
- (1) Automobile Liability, including owned, non-owned and hired vehicles, with at least the following limits of liability:
    - (a) Primarily Bodily Injury with limits of at least \$500,000 per person, \$1,000,000 per occurrence; and
    - (b) Primary Property Damage of at least \$250,000 per occurrence; or
    - (c) Combined single limits of \$1,000,000 per occurrence.
  - (2) Commercial General Liability including coverage for premises, products and completed operations, independent contractors, personal injury and contractual obligations with combined single limits of coverage of at least \$2,000,000 per occurrence, \$4,000,000 aggregate.
  - (3) Workers' compensation coverage as required by the Labor Code of the State of California and, if workers' compensation is required, employer's liability insurance with minimum limits of (\$1,000,000) per occurrence or occupational illness. The Workers' Compensation policy shall be endorsed with a waiver of subrogation in favor of the CITY for all work performed by the CONTRACTOR, its employees, agents and subcontractors.
- B. The insurance provided by CONTRACTOR will be primary and non-contributory.
- C. CITY, the Successor Agency to the Former Redevelopment Agency of the City of Torrance, the City Council and each member thereof, members of boards and commissions, very officer, agent, official, employee and volunteer must be named as additional insureds under the automobile and general liability policies. Additional insured coverage endorsement must also apply to all work performed by CONTRACTOR.
- D. CONTRACTOR must provide certificates of insurance including all required amendatory endorsements (or copies of the applicable policy language effecting coverage required by this clause) indicating appropriate coverage, to the City Clerk of the City of Torrance before the commencement of work.
- E. Each insurance policy required by this Paragraph must contain a provision that no termination, cancellation or change of coverage can be made without notice to the CITY.
- F. CONTRACTOR must include all subcontractors as insureds under its policies or must furnish separate certificates and endorsements for each subcontractor. All coverage for subcontractors will be subject to all of the requirements of this Paragraph 18.

- G. If the CONTRACTOR maintains broader coverage and/or higher limits than the minimums shown above, the CITY requires and shall be entitled to the broader coverage and/or the higher limits maintained by the CONTRACTOR. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the CITY.
- H. The procuring of insurance shall not be construed as a limitation on liability nor as full performance of the indemnification provisions of the CONTRACTOR.
- I. CONTRACTOR hereby grants to CITY a waiver of any right to subrogation which any insurer of said CONTRACTOR may acquire against the CITY by virtue of the payment of any loss under such insurance. CONTRACTOR agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the CITY has received a waiver of subrogation endorsement from the insurer.

**19. SUFFICIENCY OF INSURERS**

Insurance required by this Agreement will be satisfactory only if issued by companies admitted to do business in California, rated “A” or better in the most recent edition of Best’s Key Rating Guide, and only if they are of a financial category Class VII or better, unless these requirements are waived by the Risk Manager of the CITY (“Risk Manager”) due to unique circumstances. In the event the Risk Manager determines that the work or services to be performed under this Agreement creates an increased or decreased risk of loss to the CITY, the CONTRACTOR agrees that the minimum limits of any insurance policies and/or the performance bond required by this Agreement may be changed accordingly upon receipt of written notice from the Risk Manager; provided that CONTRACTOR will have the right to appeal a determination of increased coverage by the Risk Manager to the City Council of the CITY within 10 days of receipt of notice from the Risk Manager.

**20. CONFLICT OF INTEREST**

- A. No officer or employee of the CITY may have any financial interest, direct or indirect, in this Agreement, nor may any officer or employee participate in any decision relating to the Agreement that effects the officer or employee’s financial interest or the financial interest of any corporation, partnership or association in which the officer or employee is, directly or indirectly interested, in violation of any law, rule or regulation.
- B. No person may offer, give, or agree to give any officer or employee or former officer or employee, nor may any officer or employee solicit, demand, accept, or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, preparation or any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any way pertaining to any program requirement, contract or subcontract, or to any solicitation or proposal.

**21. NOTICE**

- A. All notices, requests, demands, or other communications under this Agreement will be in writing. Notice will be sufficiently given for all purposes as follows:
1. Personal delivery. When personally delivered to the recipient: notice is effective on delivery.
  2. First Class mail. When mailed first class to the last address of the recipient known to the party giving notice: notice is effective three mail delivery days after deposit in an United States Postal Service office or mailbox.
  3. Certified mail. When mailed certified mail, return receipt requested: notice is effective on receipt, if delivery is confirmed by a return receipt.
  4. Overnight delivery. When delivered by an overnight delivery service, charges prepaid or charged to the sender's account: notice is effective on delivery, if delivery is confirmed by the delivery service.
  5. Facsimile transmission. When sent by fax to the last fax number of the recipient known to the party giving notice: notice is effective on receipt. Any notice given by fax will be deemed received on the next business day if it is received after 5:00 p.m. (recipient's time) or on a non-business day.
  7. Addresses for purpose of giving notice are as follows:

CONTRACTOR: Contractor's Name and Address

Fax: Insert Fax Number

CITY: City Clerk  
City of Torrance  
3031 Torrance Boulevard  
Torrance, CA 90503  
Fax: (310) 618-2931

with a copy to: Attn: Project Manager's Name  
Department Name  
Address  
Torrance, CA 90503  
Fax: Insert Fax Number

- B. Any correctly addressed notice that is refused, unclaimed, or undeliverable because of an act or omission of the party to be notified, will be deemed effective as of the first date the notice was refused, unclaimed or deemed undeliverable by the postal authorities, messenger or overnight delivery service.
- C. Either party may change its address or fax number by giving the other party notice of the change in any manner permitted by this Agreement.

**22. PROHIBITION AGAINST ASSIGNMENT AND SUBCONTRACTING**

This Agreement and all exhibits are binding on the heirs, successors, and assigns of the parties. The Agreement may not be assigned or subcontracted by either the CITY or CONTRACTOR without the prior written consent of the other.

**23. INTEGRATION; AMENDMENT**

This Agreement represents the entire understanding of the CITY and CONTRACTOR as to those matters contained in it. No prior oral or written understanding will be of any force or effect with respect to the terms of this Agreement. The Agreement may not be modified or altered except in writing signed by both parties.

**24. INTERPRETATION**

The terms of this Agreement should be construed in accordance with the meaning of the language used and should not be construed for or against either party by reason of the authorship of this Agreement or any other rule of construction that might otherwise apply. To the extent that the terms of the Bid or Proposal are inconsistent with the terms of this Agreement, the terms of this Agreement shall control.

**25. SEVERABILITY**

If any part of this Agreement is found to be in conflict with applicable laws, that part will be inoperative, null and void insofar as it is in conflict with any applicable laws, but the remainder of the Agreement will remain in full force and effect.

**26. TIME OF ESSENCE**

Time is of the essence in the performance of this Agreement.

**27. GOVERNING LAW; JURISDICTION**

This Agreement will be administered and interpreted under the laws of the State of California. Jurisdiction of any litigation arising from the Agreement will be in Los Angeles County, California.

**28. COMPLIANCE WITH STATUTES AND REGULATIONS**

CONTRACTOR will be knowledgeable of and will comply with all applicable federal, state, county and city statutes, rules, regulations, ordinances and orders.

**29. WAIVER OF BREACH**

No delay or omission in the exercise of any right or remedy by a nondefaulting party on any default will impair the right or remedy or be construed as a waiver. A party's consent or approval of any act by the other party requiring the party's consent or approval will not be deemed to waive or render unnecessary the other party's consent to or approval of any subsequent act. Any waiver by either party of any default must be in writing and will not be a waiver of any other default concerning the same or any other provision of this Agreement.



**30. ATTORNEY'S FEES**

Except as provided for in Paragraph 16, in any dispute, litigation, arbitration, or other proceeding by which one party either seeks to enforce its rights under this Agreement (whether in contract, tort or both) or seeks a declaration of any rights or obligations under this Agreement, the prevailing party will be awarded reasonable attorney's fees, together with any costs and expenses, to resolve the dispute and to enforce any judgment.

**31. EXHIBITS**

All exhibits identified in this Agreement are incorporated into the Agreement by this reference.

**32. CONTRACTOR'S AUTHORITY TO EXECUTE**

The persons executing this Agreement on behalf of the CONTRACTOR warrant that (i) the CONTRACTOR is duly organized and existing; (ii) they are duly authorized to execute this Agreement on behalf of the CONTRACTOR; (iii) by so executing this Agreement, the CONTRACTOR is formally bound to the provisions of this Agreement; and (iv) the entering into this Agreement does not violate any provision of any other Agreement to which the CONTRACTOR is bound.

**33. PUBLIC RECORDS ACT**

Any documents submitted by the CONTRACTOR; all information obtained in connection with the CITY's right to audit and inspect the CONTRACTOR's documents, books, and accounting records pursuant to paragraph 14 Contractor's Accounting Records; Other Project Records; as well as those documents which were required to be submitted in response to the Bid used in the solicitation process for this Contract, become the exclusive property of the City. All such documents become a matter of public record and shall be regarded as public records. Exceptions will be those elements in the California Government Code Section 6250 et seq. (Public Records Act) and which are marked "trade secret", "confidential", or "proprietary". The CITY shall not in any way be liable or responsible for the disclosure of any such records including, without limitation, those so marked, if disclosure is required by law, or by an order issued by a court of competent jurisdiction.

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In the event the CITY is required to defend an action on a Public Records Act request for any of the aforementioned documents, information, books, records, and/or contents of a proposal marked "trade secret", "confidential", or "proprietary", the CONTRACTOR agrees to defend and indemnify the CITY from all costs and expenses, including reasonable attorney's fees, in action or liability arising under the Public Records Act.

CITY OF TORRANCE,  
a municipal corporation

Firm Name  
Type of Entity

\_\_\_\_\_  
Patrick J. Furey, Mayor

By: \_\_\_\_\_  
Signer Name, Title

ATTEST:

\_\_\_\_\_  
Rebecca Poirier, MMC  
City Clerk

APPROVED AS TO FORM:

PATRICK Q. SULLIVAN  
City Attorney

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

Attachment: Exhibit A: Bid  
Rev. 0819

**EXHIBIT A**

**Bid**

**PART F**  
**SPECIFICATIONS**



Elevator Consulting, Inc.

23211 South Pointe Drive  
Laguna Hills, CA 92653  
949-348-9711

3765 East Sunset Road, B-5  
Las Vegas, NV 89120  
702-319-9711

15811 32<sup>nd</sup> Avenue NE  
Lake Forest Park, WA 98155  
206-954-1821

## **VERTICAL TRANSPORTATION MODERNIZATION SPECIFICATIONS**

**Katy Geissert Civic Center Library  
3301 Torrance Blvd  
Torrance, CA**

**February 5, 2021**

[www.hkaconsulting.com](http://www.hkaconsulting.com)

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**SECTION 14 22 10****MODERNIZATION OF ELEVATORS****PART 1 - GENERAL:****1.01 GENERAL CONDITIONS:**

- A. Bidders Note: All clarifications, exceptions and qualifications to this document must be submitted at bid time. The format shall be this document marked up to reflect bidder's proposed product for this project. Additional pages in letter form with regard to work by others or instructions to the contractor are acceptable, but all other clarifications to this document will be submitted with the bid as a mark-up of this document. The marked-up document when submitted will be reviewed and negotiated, and will become a part of the Contract.
- B. Bidding documents:
  - 1. Bidders shall examine existing conditions. Any discrepancies which affect the elevator work or conditions adverse to the bidder's equipment shall be brought to Owner's Representative's attention at least seven (7) days prior to the bid date. If no discrepancies are presented, changes required to accommodate bidder's equipment become the responsibility and cost to Contractor.
  - 2. Bidders are responsible to identify all required building related work at time of bidding and included with their bid documents.
- C. The specifications are written to be included as an attachment to the modernization contract.
- D. A copy of the final contract with all attachments shall be onsite in the machine room at all times.
- E. The Elevator Contractor shall be responsible for all building modifications to provide a code compliant elevator modernization. All sub-contractors will be contracted directly with the elevator contractor.
- F. Contractor shall provide a lock-box for each machine room.

**1.02 RELATED DOCUMENTS:** Exhibits are optional and need to be job specific

- A. The following documents for the contract and complete scope of work related to the modernization and maintenance of the project.
  - 1. Owner's Contract
  - 2. Owner's Insurance Requirements – Exhibit A

**1.03 DEFINITIONS:**

- A. Main Lobby: Ground Level unless otherwise indicated.
- B. Fire Recall Level: As directed by local fire authority. As existing.
- C. Alternate Fire Recall Level: As directed by local fire authority. As existing.
- D. All retained existing equipment shall be of equal condition and life span as of new equipment.
- E. Serviceability: It is recognized that each manufacturers' system contains components that are proprietary to the development of their systems. The Owner may wish to have the elevator system maintained by another technically qualified service provider and by submitting a bid for

this project, the manufacturer shall guarantee that for a minimum of 20 years they will provide the following:

1. Diagnostic, adjusting and monitoring tools for all components including documents, manuals, and wiring diagrams. Devices shall not self-destruct, require charging or exchange. Remote monitoring devices are excluded from this requirement, however if such devices are removed all wiring shall be neatly terminated, tied within a junction box and properly marked as to its content.
2. Manufacturer shall guarantee to support the equipment for this project with regard to notification to Owner of system corrective updates, provide and install such updates at no cost to Owner.
3. Provide contact information for their separate parts warehouse so that the Owner or designated service provider can order parts on a 24-hour basis and delivered within 48 hours. Parts may be provided from inventory when adequate stock exists. In some cases, parts will have to be special ordered from the factory or other vendor. Proprietary parts will be made available on an exchange basis.
4. Provide a list of parts of each component manufactured and stored at the warehouse and the retail cost of each at close out of the project and estimated escalation cost. The cost of these parts is what would be charged to Owner or other service provider.
5. Provide contact information for technical support so that the Owner or designated service provider can obtain technical support on a 24-hour basis to provide assistance in trouble shooting problems. Indicate hourly rate charged to Owner or designated service provider for such service.
6. In the event that a company other than the Original Equipment Manufacturer (OEM) maintains the elevators, and if the equipment was unable to be repaired by the non-OEM maintenance company, a factory-trained OEM technician would be required to assist (as it would if Contractor's own technician were in the same situation). If such an event was to occur, OEM Contractor would make its factory-trained technician available for assistance upon request of the Owner within three (3) business days, based on the original contractual hourly rates subject to established annual escalations. This shall survive any termination of the maintenance agreement.
7. The above will survive any termination of the maintenance agreement.
8. Contractor shall be defined as "Elevator Contractor".
9. Subcontractor shall be defined as any contractor contracted by either "Owner or Elevator Contractor".

#### 1.04 DESCRIPTION:

##### A. Examination of site:

1. Contractor shall visit the building, examine the existing elevators and contract documents, determine condition of all retained components, space conditions, power supply and mainline disconnect.
2. Make all surveys necessary to meet the requirements of this specification and compatibility to products provided.

##### B. Field measurements:

1. Field verify dimensions before proceeding with the work.
2. Coordinate related work by other trades.



3. Contractor shall assume responsibility and provide full maintenance of the elevator equipment upon award of this contract and shall continue to do such throughout the modernization.

#### 1.05 RELATED WORK INCLUDED BY OTHERS IN THIS SECTION:

1. Contractor shall visit the building, examine the existing conditions, power supply, standby/emergency power supply, emergency battery rescue unit, emergency battery lowering, mainline disconnect, and include all work needed to ensure a fully code compliant modernization. Contractor or his sub-contractors shall perform this work, which may include but is not limited to the following:
  - a. General:
    - 1) Legal access consisting of self-closing and self-locking access doors, ladders, gratings and steps to machine rooms, controller areas, pits and hoistways.
    - 2) Providing supports to carry structural reaction, impact and uplift loads imposed by elevator equipment.
    - 3) Grouting behind entrance frames where concrete walls occur.
    - 4) Block-outs, pockets and chases in walls and floors for entrances, signals, fixtures, cables and conduit.
  - b. Electrical work:
    - 1) Power feeders: Modification to existing, or installation and connection of three phase power, through fused mainline switches or circuit breakers and extended to terminals of controllers. Provide continuous ground where needed.
    - 2) Light circuits: Single-phase circuit through disconnects and extended to controller for car lights and fan.
    - 3) Communication circuit: Telephone circuit terminated at junction box of each controller.
    - 4) Illumination: Lights with guards, illuminating light switches and convenience outlets in pits, machine rooms, controller areas and overhead sheave spaces.
    - 5) Conduit: Installation of electrical conduit and pull boxes with pull wire between hoistways and remote locations of each indicator and control panel.
    - 6) GFCI Outlets: Provide in machine room and pits.
    - 7) Provide machine room and pit lighting as required by local code authorities.
    - 8) Provide NEMA 4 approved electrical devices and conduits for all electrical installed below the lowest sill level.
  - c. Fire Life Safety:
    - 1) Sensing devices: Installation and or removal modification to smoke detectors, heat detectors, shunt trip, sprinklers, or products of combustion sensors in elevator lobbies, machine rooms, hoistways and alternate fire recall floor with circuits terminated at junction box in machine rooms for emergency fire service operation.
    - 2) Provide fire proofing as required by local code authority.
  - d. If work by others is excluded from the elevator contractors' scope of work, they shall coordinate with all sub-contractors to complete all required building related work prior to inspection at no additional cost to the Owner.

## 1.06 RELATED WORK INCLUDED BY ELEVATOR CONTRACTOR IN THIS SECTION:

1. Barricades: Full height self-closing self-locking barricades for protection of open hoistways during construction.
2. Temporary screens: Contractor shall provide code compliant hoistway screening between elevators before construction starts and remove at completion of project.
3. Painting: Field painting of prime-finish items constituting final finishes.
4. Card readers: Including wire from machine room j-box to car top j-box, interfacing with elevator controls and installation in elevator car, connection in machine room and testing of system. Note card reader panel is not allowed inside the machine room. Contractor shall coordinate with sub-contractors to complete all required work at no additional cost to the Owner (if required).
5. Closed circuit T.V: Including wire from machine room j-box to elevator car top j-box, connection in machine room and testing. Car top and machine j-box and labeled. Contractor shall coordinate with sub-contractors to complete all required work at no additional cost to the Owner (if required).
6. Contractor shall coordinate and perform all pretesting of all building systems prior to inspection at no additional cost to the Owner.

## 1.07 QUALITY ASSURANCE:

## A. Qualifications of Contractors:

1. General: The entire elevator installation shall be installed and maintained by the acceptable Contractors listed or as qualified by addendum. No portion of the work shall be subcontracted unless qualified and accepted by addendum.
2. Acceptable contractors: Submit list of at least five (5) projects representing equivalent equipment that has been operational for at least three (3) years. Include owner's name, contact person and telephone number.
3. Installer's qualifications: Installer must be a licensed, certified conveyance mechanic in the state of California.
4. Personnel list: Contractor shall, at time of bid, submit to Owner's Representative for review and approval a complete organization chart that depicts Contractor's "Project Team" exclusively assigned and dedicated to the modernization and maintenance for this project. The chart shall include, but not be limited to, administrative personnel, managers, supervisors, mechanics, apprentices, and all others who shall provide the requirements, services, and obligations of this contract. Personnel quantities, resumes, certification, titles, labor affiliations, exact roles and responsibilities and reporting structures under this contract shall be included.
5. Maintenance qualifications: Contractor must be a licensed elevator contractor in the state where installation is located.
6. Serviceman qualifications: All Contractor's mechanics that shall be assigned to this project, shall have been in the elevator business or trade for a minimum of ten (10) years with continuous and past experience in the preventative maintenance, repair, modernization, inspection and testing of elevator equipment of similar characteristics to those included in this project.
  - a. Manufacturer's qualifications: The design, engineering and manufacture of major elevator components such as machines, motors, motor drive units, controllers, door operators, safeties, governors, selectors, etc. shall be from manufactures that have been in the business for the last ten (10) years. Equipment proposed must have a history of successful operation under similar conditions for the last five (5) years.

- b. Directly employ sufficient competent personnel within fifty (50) miles of project to handle construction and maintenance duties.
    - c. Maintain local stock of parts adequate for replacement on permanent or emergency basis.
    - d. Be able to respond to trouble calls within one (1) hour during normal business hours and two (2) hours after normal business hours.
    - e. Be able to respond to entrapments within thirty (30) minutes during normal business hours and one (1) hour after normal business hours.
  7. Approved company uniforms shall be worn at all times. Names shall be visible at all times.
  8. Approved company identification shall be visible at all times.
- B. Sub-contractors:
  1. Contractor shall be solely responsible for any and all of the work done by his sub-contractor or other employees and all orders or instructions from the Owner's Representative shall be through him to them. It shall be Contractor's duty to see that all of his sub-contractors commence their work properly at the proper time, and carry it on with due diligence so that they do not delay or injure either work or materials; and that all damage caused by them or their workmen is properly made good by them or by himself at his cost. Contractor shall submit names of his sub-contractors for approval by the Owner's Representative.
  2. The use of sub-contractors is to be limited to work outside the scope of elevator construction work; for example, patching, painting, coring of walls, marble work and refinishing.
- C. Quality of work and workmanship:
  1. When completed, the installation shall be modern in all respects.
  2. All components specified as new shall be provided as new. All components specified to be retained may be provided as new at Contractor's option subject to approval of Owner's Representative. All retained components are to be examined, cleaned, adjusted, repaired and/or replaced with new parts. Contractor must be willing to accept all retained equipment on full maintenance without prorating.
  3. All work performed shall be conducted in a workmanship type manner.
- D. Requirements of regulatory agencies:
  1. Codes: In accordance with the latest applicable edition requirements of the following and as specified:
    - a. A.D.A.: Americans with Disabilities Act
    - b. ASME: American Society of Mechanical Engineers - A17.1; Safety Code for Elevators and Escalators
    - c. CBC: Title 24; California Building Codes
    - d. CCR: Title 8; California Code of Regulations
    - e. IEEE
    - f. NEC: National Electric Code / NFPA 70.
    - g. NFPA-72
    - h. All local codes and Amendments and Administration, which govern
- E. Permits, Inspections, and Taxes:
  1. Arrange and pay for inspections by governing authorities.

2. Obtain and post operating permits per applicable code.
  3. Arrange and pay for all applicable taxes.
- F. Safety Policies and Practices:
1. Installation and maintenance contractors are required to follow their company's safety practices and policies
  2. Installation and maintenance contractors are required to follow all practices and policies of the building management.
  3. Installation and maintenance contractors are required to follow governing authorities' safety practices and policies.

#### 1.08 SUBMITTALS:

- A. Shop drawings:
1. Submit three copies of the following prior to ordering any materials:
    - a. Layouts: Plan of machinery and hoistway spaces showing new equipment and existing equipment; include impact and static loads imposed on building structure and clearances around equipment.
    - b. Details: Submit details of cab shell and interiors, fixtures, and entrances.
    - c. Data: Indicate on layouts or separate data sheets; machine spaces heat release, power requirements, conduit runs outside of hoistways and machine rooms, car and counterweight roller guides, control systems, motor drive units and door operators.
    - d. Provide all structural submittals with an approved Professional Engineer stamp and signature.
- B. Samples:
1. Provide samples of materials and finishes exposed to public view and additional, if specifically requested, 6 inch x 6 inch panels, 12 inch lengths or full size if smaller, as applicable.

#### 1.09 PRODUCT DELIVERY, STORAGE AND HANDLING:

- A. Delivery and storage:
1. Protect equipment during transportation, erection and construction. Store under cover to prevent damage due to weather conditions. Replace damaged materials. Storage space on site will be available. Additionally, if onsite storage is provided and a storage container and or fencing is required to properly secure and store all equipment, it shall be provided at no cost to the Owner.
- B. Handling:
1. Owner's Representative has the first right of refusal to retain any elevator components that are to be removed and modernized with new equipment. All removed components shall remain property of the Owner's Representative, until the Owner's Representative notifies Contractor, in writing, of removed components that Owner's Representative would like to retain. All remaining elevator equipment not to be retained by the Owner's Representative or reused by Contractor shall be promptly removed from the building by Contractor at no cost to the Owner's Representative, and become the property of Contractor.

2. Contractor shall make every attempt to recycle removed elevator equipment. Contractor shall correct any damage to building surfaces and surrounding areas if damaged during removal of this equipment, at no cost to the Owner's Representative.

#### 1.10 SCHEDULING AND SEQUENCING:

##### A. Schedule:

1. Submit construction schedule with bid indicating time required from award of contract to:
  - a. Submittals
  - b. Equipment fabrication and delivery to site
  - c. Installation and testing per elevator
  - d. Final acceptance of the elevator
2. Contractor shall be responsible for scheduling related work with other sub-contractors to avoid omissions and delays in job progress. Elevators shall not be removed from service, without prior approval, until all equipment has been manufactured and delivered to the project site for all elevators.

##### B. Building operations:

1. The building will remain in operation during the execution of this contract. Cooperate with building management in scheduling work in such a way as not to cause interruption of or interference with the building operations.

##### C. Electrical shutdowns:

1. Temporary electrical shutdowns will not be allowed except for brief periods to be scheduled outside normal hours and at least forty-eight (48) hours in advance and approved by Owner's Representative.

#### 1.11 WARRANTY:

##### A. Guarantee and Warranty:

1. Provide special project warranty, signed by Contractor, Installer and Manufacturer, agreeing to replace/repair/restore defective materials and workmanship of all work performed which may develop within one (1) year from final date of completion and acceptance of the **entire installation**. "Defective" is hereby defined to include, but not by way of limitation, operation or control system failures, performances below required minimums, excessive wear, unusual deterioration or aging of materials or finishes, unsafe conditions, the need for excessive maintenance, abnormal noise or vibration and similar unusual, unexpected and unsatisfactory conditions.

#### 1.12 ALTERNATES:

##### A. Alternate No. 1; New Cylinder and Piston:

1. Quote cost to replace the existing cylinder and piston per alternate listing under hydraulic equipment section.

**PART 2 - PRODUCTS:**

## 2.01 DESCRIPTION OF SYSTEMS:

- A. Elevator No. 1:
1. Type: Hydraulic Direct Plunger
  2. Capacity: 2,500 Pounds
  3. Speed: 100 FPM
  4. Stops: LL, 1, 2 (3 Stop)
  5. Openings: LL, 1, 2
  6. Travel: Existing
  7. Control: Soft Start AC
  8. Operation: New Microprocessor Simplex
  9. Machine Location: Remote
  10. Special Operations:
    - a. Independent Service
    - b. Fire Emergency Service
    - c. Emergency Battery Lowering
  11. Door Operation: Provide New
  12. Door Protection: Provide New
  13. Guide Rails: Retain
  14. Guide Shoes: Provide New
  15. Plunger Unit: Alternate No. 2
  16. Cylinder Unit: Alternate No. 2
  17. Buffers: Retain
  18. Car Frame & Platforms: Retain
  19. Power Unit: Provide New
  20. Controllers: Provide New
  21. Piping: Retain
  22. Car Operating Panels: Provide New
  23. Car Position Indicators: Provide New
  24. Hall Position Indicators: Provide New
  25. Service Cabinet: Provide New
  26. Communications: Provide New
  27. Hall Button Stations: Provide New
  28. Car Lanterns: Provide New
  29. Handicap Requirements: Provide New, as required
  30. Wiring: Provide New

- 31. Car Enclosure: Retain and refurbish
- 32. Hoistway Entrances: Retain and refurbish
- 33. Miscellaneous Items:
  - a. Key Operated Hoistway Access
  - b. Seismic Requirements
  - c. Card Reader Provisions
  - d. Clean hoistways, machine rooms and equipment; paint machine room floor, pit floor, car top, and all existing metal work
  - e. Top of car guardrail Provide new as needed

## 2.02 MATERIALS:

- A. Aluminum: Alloy and temper best suited for anodizing finish specified.
- B. Plywood: PS-1, A-D exterior Grade Douglas Fir, fire retardant treated.
- C. Sheet steel: ASTM A366, uncoated, pickled, free from defects.
- D. Sound deadener: Fire retardant; spray, roller or adhesive applied; 3/16" thick.
- E. Stainless steel: ASTM A167; type 302 or 304.

## 2.03 FINISHES:

- A. Exposed-to-view surfaces:
  - 1. Provide as follows unless otherwise specified.
    - a. Aluminum: Clear anodized finish.
    - b. Sheet steel:
      - 1) Shop prime: Degrease clean of foreign substances and apply one coat of corrosion inhibiting primer compatible with finish paint selected. Hoistway items visible to public shall be painted one additional coat of black paint.
      - 2) Finish paint: Three coats baked enamel; sand each coat smooth; color as selected.
    - c. Stainless steel:
      - 1) Plain: Satin, directional polish, No. 4 Mirror directional polish, No. 8 Mirror non-directional polish, No. 10 finish unless otherwise specified.
      - 2) Patterned: Rigidized Metal's No. 5 WL, Ardmore Textured Metals No. 5-SM or approved equal.
    - d. Touch-up:
      - 1) Prime surfaces: Use same paint as factory for field touch-up.
      - 2) Finish painted surfaces: Refinish whole panel with shop prime and finish paint as specified above.
- B. Non-exposed-to-view surfaces:
  - 1. Degrease or remove any rust and shop paint manufacturer's standard corrosion inhibiting primer.

## 2.04 AUTOMATIC OPERATION:

- A. General operation of individual elevators:

1. Provide a non-proprietary diagnostic microprocessor-controlled dispatching system, based on real time calculations, designed to monitor all types of traffic and sufficiently flexible so that it can be modified to accommodate changes in traffic patterns.
  2. Serial link communications: Provide a distributed processing network consisting of localized processors located in machine rooms, car stations, hall stations and top of car to allow system to make fast decisions based on data shared by the processor involved in the different operations of the elevators. For group dispatch operations, all elevators in the group shall be capable of acting as a group common dispatcher as the need arises.
  3. Fault diagnostic system: Provide Owner's Representative with all hardware such as on-board LED diagnostics, hand held device or laptop computer, as standard with manufacturer, and supporting software documentation. Diagnostic system shall be capable of determining faults most difficult to find, as well as be capable of performing all code required testing.
  4. The system shall be flexible, irrespective of the number of elevators in normal service.
- B. Simplex selective collective operation:
1. Arrange for simplex selective collective automatic operation. Operate elevators from a single riser of landing buttons and from operating device in car.
  2. Momentary pressure of one or more car or landing buttons, other than those for landing at which car is standing, starts car, and causes car to stop at first landing for which a car or landing call is registered corresponding to direction in which car is traveling. Stops made in order in which landings are reached, irrespective of sequence in which calls are registered.
  3. Double door operation not permitted. If an up-traveling car has a passenger for an intermediate floor and a down call is registered at that floor, with no calls above car, it travels to floor, opens door to let passenger out, then lights down direction arrow in hall lantern and accepts waiting passenger without closing and reopening doors.

## 2.05 SPECIAL OPERATIONS:

- A. Inspection operation:
1. Provide key-operated hoistway access device and car top operating device. Key switches shall be mounted in door frames with only ferrule exposed a separate cover plate at terminal landings.
- B. Independent service:
1. Independent service operation shall be provided so that, by means of a switch located in the car service cabinet, the car can be removed from automatic operation and be operated by an attendant. The attendant shall have full control of the starting, stopping and direction of car travel.
  2. The car shall respond to car buttons only. The hall signals for the car on independent service shall not operate.
- C. Operation under fire or other emergency conditions:
1. Provide special emergency service to comply with current ASME and CCR Title 8, CBC Title 24, and local codes having jurisdiction.
  2. Provide Phase 1 recall switch at main floor elevator lobby.
  3. Key switches at main floor shall be integrated in hall button station hoistway entrance jamb with engraved instructions.



- D. Emergency Battery Lowering: Hydraulic
1. Automatically activates during power loss.
  2. Supplies power for rescue operation.
  3. Causes car to descend smoothly to lowest landing.
  4. Keeps doors closed until proper floor level is reached.
  5. Automatically opens doors at lowest landing.
  6. Safely shuts down elevator until normal power is restored.
  7. Automatically resets for future emergencies.
  8. Differentiates between actual power failure and manual operation of elevator disconnect switch.

## 2.06 DOOR OPERATION:

- A. Passenger type:
1. Provide door times available as specified under "Design Criteria."
  2. Car and hoistway doors shall open and close simultaneously, quietly and smoothly; door movement shall be cushioned at both limits of travel. Door operation shall not cause cars to move appreciably.
  3. Door hold open times shall be readily and independently adjustable when car stops for a car or hall call. Main floor door hold times shall be adjustable independent of other floors.
  4. Provide closed loop regulated speed performance, onboard diagnostics, adjustable times, nudging, and test switches.
- B. Door operator:
1. Elevator No. 1: Provide new heavy-duty master type solid state closed loop door operators mounted on car enclosure utilizing minimum 12-gauge support angles to isolate from direct mounting of operator on the car top.
  2. Pre-approved closed loop heavy duty door operators:
    - a. GAL MOVFR
  3. weight data tag.
- C. Door Protection:
1. Elevator No. 1: Remove existing door protection devices and provide new electronic optical scanning type:
    - a. Provide a door protective system which does not rely on physical contact with a person or object to inhibit door movement or initiate door reversal.
    - b. Pre-approved optical door sensors:
      - 1) Elevator Contractor
      - 2) Adams GateKeeper Max
      - 3) Formula Systems
      - 4) Janus Pana40 Plus
      - 5) Janus Pana Chrome 3D, with voice annunciation
      - 6) Tritronics Leading Edge

- c. The system shall be able to detect a 2-inch diameter rod introduced at any position within the door movement and between the height of 2 inches and 63 inches above sill level.
- d. Detection of intrusion into the protected area shall cause the doors, if fully open, to be held in the open position and, if closing, to reverse to fully open position.
- e. If doors are prevented from closing for an adjustable period of 15 to 45 seconds or upon activation of fire emergency service, they shall proceed to close at reduced speed and a loud buzzer shall sound. Door closing force shall not exceed 2-1/2 ft.-lb. when door re-opening device is not in operation.
- f. For side-opening doors, the detector for the strike jamb side shall be recessed, flush with strike jamb.

## 2.07 SIGNALS AND OPERATING FIXTURES:

### A. General:

1. Provide signals and fixtures as shown and specified. Location and arrangement of fixtures shall comply with disabled access requirements.
  - a. Passenger Elevator Buttons: Provide minimum 1-inch diameter mechanical, with fully illuminated buttons with LED's and engraved identifications. Buttons shall be raised 1/8 inch from surrounding surface with square shoulders.
  - b. Switches: Toggle type typically or key operated where noted.
  - c. Provide six (6) keys for each elevator keyed device, with proper labeled identification upon turnover of elevator.
  - d. Cabinets: Provide with pulls, concealed hinges and doors mounted flush with hairline joints to adjacent surface.
  - e. Arrangement: Arrangement of fixtures shall generally conform to that specified, but components may be rearranged, if desired, subject to Owner's Representative's approval.
  - f. Engraving: Of size indicated; color backfill with epoxy paint in contrasting color as selected. No applied engraved plates.
  - g. Lamps: Miniature LED type.
  - h. Audible Chimes: Electronic adjustable audible chimes; bell type gong not acceptable.
  - i. Provide floor passing signal of the adjustable electronic audible chime type.
  - j. Tactile Markings: Provide raised Braille and alpha characters, numerals or symbols adjacent to operating buttons and devices used by the public according to local codes. Indications may be engraved directly on faceplates or separate plates flush mounted with hairline joints and concealed mechanical fasteners. Plates shall be of same size and shape as buttons or integral "fishtail" type.
  - k. Acceptable manufacturers: EPCO, ERM, MAD, or INNOVATION, fixtures with 5/8" engraved identifications. Operation of car or hall button shall cause button to illuminate. Response of car to car or hall call shall cause corresponding button to extinguish.
  - l. Faceplates: Provide of material and finish as indicated and specified; 1/8-inch minimum thickness with sharp edges relieved. Faceplates shall be sized to cover holes left by removal of existing fixtures where new fixtures are provided and provided with engraved fire sign, per A17.1. New faceplates shall cover all existing holes or Contractor shall patch at no additional cost to the Owner.

- m. Audible chimes: Electronic adjustable audible chimes from 75 to 85 dB in elevator lobby 3' - 0" above floor and 3' - 0" away from elevator entrance; bell type gong not acceptable.
- B. Car operating panels:
1. General: Provide buttons numbered to conform to floors served and the following:
    - a. Locate top operating button at 48 inches above floor.
    - b. Locate emergency stop switch and illuminated alarm button in bottom row at 35 inches above floor.
    - c. Provide "Door Open", and "Door Close", buttons located above emergency stop and alarm of same design as car button.
    - d. All signage required by local codes shall be engraved and painted as directed by Owner's representative.
    - e. Provide fire emergency features, per code. Provide FEO-F1 key switch for fire service unless local code requires different.
    - f. Make provisions for card readers in Elevator No. 1.
  2. Elevator No. 1: Provide one two new panels per car; integrate cabinets, buttons and engraving into hinged single piece faceplate mounted to front return panel side wall adjacent to strike jamb.
- C. Car position indicators:
1. Provide car position indicators with 2 inch indications corresponding to floor designations with matching direction arrows. Provide "X" or "E" indications for elevators with express zones.
    - a. Elevator No. 1: Provide new digital alpha numeric type segmented LED readout indicator with minimum two-inch high indications mounted integral with each car operating panel.
- D. Service cabinet:
1. Provide new cabinet, door with a lock and concealed hinge as an integral part of car operating panel mounted with flush hairline joints. Cabinet door shall be provided with a flush glazed window of required size to hold elevator-operating permit, mounted horizontally. Service cabinet shall contain the following:
    - a. Independent service switch
    - b. Two-speed ventilation switch (Hi-Off-Low)
    - c. Light switch as applicable
    - d. Inspection switch, key operated
    - e. Duplex GFI convenience outlet
    - f. Buzzers as required
    - g. Constant pressure test switch for emergency car lighting
    - h. Card reader over-ride switch-key operated
- E. Communication equipment:
1. Elevator No. 1: Provide a new complete communication system in compliance with ADA regulations consisting of a combination speaker/microphone, amplifier, automatic dialer with 4 number rollover capability and matching car station push button with telephone symbol to activate system and acknowledgment lights. Mount in car operating panel behind a pattern of holes, wire to machine room and program automatic dialer as directed by Owner's Representative.

- F. Hall button fixtures:
1. Each fixture shall contain buttons, which light to indicate hall call registration and extinguish when call is answered. Provide intermediate fixtures with two buttons and terminal fixtures with one. Engrave fire-exiting instructions on faceplates. Provide minimum of two fasteners at top and bottom of faceplate.
    - a. Elevator No. 1: Provide elevator with one riser of hall button stations.
- G. Hall position indicators:
1. Provide with indications corresponding to floor designations with matching direction arrows.
    - a. Elevator No. 1: Provide new digital alphanumeric type segmented LED readout indicator with minimum two-inch high indications. Combine with hall lantern.
- H. Car lanterns:
1. Manufacturer's standard dual car riding lantern mounted at a maximum height above floor. Lens shall be flush with faceplate or face of jamb.
  2. Lantern illuminates and chimes as doors open. Provide single chime for up direction and double chime for down direction. Chime sound level shall be at 10 decibels over ambient.
- I. Disabled access requirements:
1. Provide to meet local codes having jurisdiction including handrail and button configuration.
    - a. Car operating panels: Provide raised Braille and alpha characters, numerals or symbols to the left of operating buttons and devices used by the public. Indications may be engraved directly on faceplates or separate plates flush mounted with hairline joints and concealed mechanical fasteners. Plates shall be of same size and shape as buttons. Raised characters shall be white on a black background with Braille designations directly below the character. Provide "star" at main egress landing.
    - b. Entrances: Provide raised Braille and alpha characters, numerals or symbols similar to those for car stations of size required by governing authority. Locate on each entrance jamb at 60 inches above floor indicating floor designation. Material and finish of plates shall match hall button station faceplates. Material and finish of plates shall be white on black. (CA only) Provide with contrasting background. Braille designation shall be to the bottom of the raised character. Provide "star" at main egress landing.

## 2.08 WIRING:

- A. General:
1. Provide all necessary wiring and 25% spares between cars and controllers and to all remote-control stations; minimum of eight. Furnish shielded wires in cables for all communications card readers, cameras, digital displays, and speakers. Include four additional pairs of shielded spares and two RG-6 coaxial cables or equivalent, for each car. Electrical wire runs will be free of splices or connection unless at designated junction points.
- B. Traveling Cables:
1. Use minimum number of traveling cables. Include shielded wires and spares as noted above. Cord thoroughly and protect cables from rubbing against hoistways or car items.

Provide with steel cable core and properly anchored to relieve strain on individual conductors.

2. All traveling cables shall be wired from machine to elevator, without junction box or spliced connections.

C. Hoistway Wiring:

1. All wiring shall be neatly terminated, tied within a junction box and properly marked as to its content.
2. If junction boxes are used, NEC approved terminal strips shall be used and properly identified.
3. No splices shall be allowed.

D. Work light and GFCI convenience outlet:

1. Provide on top of car with protective plastic lamp guard. Provide two for traction elevators and one for hydraulic elevators.
2. Provide compact fluorescent type (CFL)

E. Stop switch:

1. Provide in each pit. Provide NEMA 4 enclosure.
2. Provide on each top of car.

F. Alarm gong:

1. Provide on top of each car to be actuated by corresponding alarm button or emergency stop switch.

G. Auxiliary disconnect switches:

1. Provide as required in remote controller rooms or at remote equipment not in view of mainline switches; include all wiring and conduit.

H. CCTV circuit:

1. Provide provisions for closed circuit television camera in elevators.

2.09 CAR ENCLOSURES:

A. General:

1. Fabricate finish work smooth and free from warps, buckles, squeaks and rattles; joints lightproof. No visible fastenings except as indicated.
2. Elevator shall be weighed before work begins to determine actual weight of car enclosures. Contractor shall keep a log of all equipment and weight removed and added to the suspension system. Contractor is responsible for complying with all applicable ASME and local codes.
3. All elevators shall be weighed at the completion of the project. Provide all documentation to the governing authority and Owner's Representative for permanent record.
4. Provide new crosshead data as required by ASME and local code authorities.

- B. Passenger Cars; Elevator No. 1: Provide passenger car enclosures as described below with final interior design and finishes covered under an allowance of \$20,000. Any unused amount to be refunded back to the city.
  - 1. Emergency Exit: Top of car per code.
  - 2. Ventilation:
    - a. Hydraulic Elevators Only: Low Air Flow Minimum two-speed squirrel cage exhaust fan: Low Speed 175 CFM with maximum 40.2 dBA sound level; High Speed 323 CFM with maximum 57.6 dBA sound level. Provide sound isolation mounting on canopy. Provide concealed vents at base and ceiling as required by code
  - 3. Car Doors: Fabricate from 16-gauge sheet steel on front and back of each panel sufficiently reinforced with steel to insure rigidity and sound deadened. Provide two guides per panel located one inch from each end. Provide full-length neoprene astragals. Finish car side with stainless steel and return finish 1/2 inch around edge of doors. Door strength and locking means shall comply with code where hoistway fascia is not provided directly in front of car doors.
  - 4. Protective Pads: Provide one set of heavy quilted protection pads for each group of elevators. Pads shall cover all walls with cut-out sections for car operating panels. Provide pads with rubber-coated 'J' type hooks sewn into top of pad for mounting on top of removable panels where panels are provided, otherwise pad buttons matching other metal finishes within the car shall be provided.
  - 5. Front Return Panels: Provide full integral fixed type front return panels fabricated from 14 gauge stainless steel.
  - 6. All stainless steel to be covered with 3M anti-graffiti material.
  - 7. Interior Panels, Ceiling, Lighting, Handrail, Flooring and Special Trim as covered under dollar allowance.
- C. Elevator No. 1: Retain existing shell enclosure and rehabilitate as follows:
  - 1. Front returns: Clad Stainless Steel
  - 2. Car operating panels: Provide new
  - 3. Wall panels, trim and reveals: Allowance
  - 4. Transom: Clad
  - 5. Hand rails: CA, ADA Compliant
  - 6. Ceiling and lighting: Allowance
  - 7. Ventilation: Provide new two-speed squirrel cage exhaust blower (Morrison AA, OE, or equal) with sound isolation mounting on canopy.
  - 8. Emergency exit: Retain, provide code compliant switch
  - 9. Car Doors: Provide new
  - 10. Finish flooring: By others

2.10 HOISTWAY ENTRANCES; PASSENGER TYPE:

- A. General:
  - 1. Retain existing.
- B. Hangers and Tracks:

1. Elevator No. 1: Provide all new door tracks and hanger assemblies. Sheave type with two-point suspension. Steel sheaves with flanged groove and resilient sound-absorbing tires. Minimum 2-1/2-inch diameter for hoistway, 3 inch for car. Manufacturer's heavy-duty tracks and ball or roller bearing with adjustable up thrusts.
- C. Hanger headers:
1. Elevator No. 1: Retain existing. Modify for new door tracks, reinforce and refinish.
- D. Struts:
1. Elevator No. 1: Retain existing, clean and paint.
    - a. Provide rubber door stops.
- E. Closers:
1. Elevator No. 1: Provide new cable relating torsion spring mechanical type or broken arm jack knife type as required for door assembly. Provide Smart Tork Spirators.
- F. Dust and hanger covers:
1. Elevator No. 1: Retain existing, clean and refinish with black paint. Replace damaged and missing dust covers.
- G. Fascia, toe and head guards:
1. Elevator No. 1: Retain existing, modify to comply with code, refinish with black paint and refasten for greater rigidity.
- H. Interlocks:
1. Elevator No. 1: Provide all new. Equip each hoistway door with a tamper-proof interlock which shall prevent operation of the car until doors are locked in the close position as defined by the Code and shall prevent opening of doors at landing from corridor side unless car is at rest at landing in leveling zone or, hoistway access switch is used. Provide all new type "SF" high temperature wiring for interlock circuits.
- I. Pick-up roller assemblies:
1. Elevator No. 1: Provide all new pick-up roller assemblies as required for door operating equipment furnished.
- J. Door restrictor:
1. Elevator No. 1: Provide new, door restrictor device compatible with new door equipment.
- K. Sills:
1. Elevator No. 1: Replace with new aluminum.
- L. Limit Switches:
1. Elevator No. 1: Provide new
- M. Frames:
1. Elevator No. 1: Retain existing. Clean and refinish as scheduled. Frames to be refinished by others.
- N. Hoistway doors:
1. Elevator No. 1: Retain existing, re-hang to remove all twists, provide two new gibs per panel and one fire gib per panel which will remain engaged in sill if guiding member is destroyed.

2. Provide new full height astragals and missing or damaged non-vision wings matching finish of door panels. Contractor must use the original reinforcing on existing hoistway and car doors for mounting hangers, pickup rollers, drive vanes, etc. If original reinforcing is not reusable for drive vanes and pickup rollers, Contractor shall furnish new reinforcing (minimum of 1/4" thick plate) welded to the door face. A minimum of four (4) 5/16" threaded bolts is to be used for attachment to the reinforcing plate. Where slotted holes are provided in the attachment block, a 1/4" dowel pin is to be fitted after doors locks are set up. Clean and refinish door panels as scheduled. Remove door panels before painting.

O. Passenger Elevator Entrance Schedule:

1. Elevator No. 1:

- |                    |                           |
|--------------------|---------------------------|
| a. Size:           | 3' 6" wide by 7' high.    |
| b. Type:           | Center open, Single speed |
| c. Frames:         |                           |
| 1) Main floor:     | Finish Paint              |
| 2) Typical floors: | Finish Paint              |
| d. Transoms        |                           |
| 1) Main floor:     | Re-finish                 |
| 2) Typical floors: | Re-finish                 |
| e. Doors           |                           |
| 1) Main floor:     | Retain                    |
| 2) Typical floors: | Retain                    |
| f. Sills:          |                           |
| 1) Main floor:     | Re-finish entire length   |
| 2) Typical floors: | Re-finish entire length   |

2.11 HYDRAULIC ELEVATOR EQUIPMENT:

A. Design Criteria:

1. Performance:

- a. Contract Speed: Maximum ten percent (10%) speed variation under any loading condition in both directions.
- b. Motion Time: From start to stop of elevators motion as measured in both directions for a typical one floor run under any loading condition.
  - 1) Elevator No.1 : 8.5 seconds
- c. Door Open Times:
  - 1) Elevator No.1 : 2.0 seconds
- d. Door close times: Minimum, without exceeding kinetic energy and closing force, allowed by code.
- e. Door dwell times: Comply with A.D.A. formula and provide separate adjustable timers with initial settings as follows:
  - 1) Main lobby hall call: 5.0 to 6.0 seconds.
  - 2) Upper lobby hall call: 5.0 to 6.0 seconds.
  - 3) Car call: 5.0 to 6.0 seconds. Choose one.



- 4) Interruption of door protective device: Reduce dwell to 1 second.
  - f. Leveling: Within 1/4 inch under any loading condition. Level into floor at all times, do not overrun floor and level back.
  - g. Hydraulic pressure: Hydraulic components shall be factory tested for 600 PSI. Maximum operating pressure shall be 425 PSI.
2. Operating qualities: Owner's Representative will judge riding qualities of cars and enforce the following requirements. Make all necessary adjustments.
- a. Acceleration and deceleration: Starting and stopping shall be smooth and comfortable, without obvious steps of acceleration. Slowdown, stopping and leveling shall be without jars or bumps. Elevator shall start movement within .5 seconds of fully closed doors. Stopping upon operation of emergency stop switch shall be rapid but not violent.
  - b. Horizontal Acceleration (ISO A95 Scaling): Maximum 12 mg peak-to-peak measured at full speed for full travel in both directions.
  - c. Vertical Vibration: Ride shall be free of vibration throughout acceleration, full speed and deceleration for full travel in both directions.
3. Sound control: (A Scaled – fast – Lmax over the duration of the operation).
- a. Vibration: Sound isolate machines and motor drives from beams and building structure to prevent objectionable noise and vibration transmission to occupied building spaces.
  - b. Airborne noise: Maximum acoustical output level of:
    - 1) 85 dB measured in machine room. With the meter located 3' - 0" from each machine room door at floor level.
    - 2) 55 dB measured in elevator cars during all sequences of operation.
    - 3) 50 dB measured in elevator lobbies. From the nearest staff work station to the elevator lobby.

## 2.12 HYDRAULIC HOISTWAY EQUIPMENT:

- A. Guide rails and brackets:
  - 1. Elevator No. 1: Retain existing rails, realign, clean, check, tighten and replace Code non-complying brackets, fishplates and bolts.
    - a. Provide log of the alignment corrections to the Owner's Representative.
- B. Guide shoes:
  - 1. Elevator No. 1: Provide new guide shoes of the roller type with neoprene tires, minimum 3/4-inch-wide and fully adjustable spring loaded to provide continuous contact with rail surfaces. Balance car to insure equal guide shoe pressure on all wheels and not exceed manufacturer's recommendations. Nominal roller diameter shall be 4" 6".
    - a. Static balance car.
- C. Buffers:
  - 1. Retain existing.
- D. Car frame and platform:
  - 1. Elevator No. 1: Retain existing car frame. Clean down and tighten frame bolts. Static balance weight to be added as required.
- E. Platen isolation:

1. Provide minimum 3/4-inch-thick steel plates between top of plunger and car frame with 1 inch rubber or neoprene isolation material between.

F. Cylinder:

1. Alternate No. 1:
  - a. Cylinder well and casing: Remove existing cylinder plunger unit and provide new as follows:
    - 1) Well: The Elevator Installer shall familiarize himself with existing conditions and be responsible for drilling cylinder wells.
    - 2) Casing: Provide steel casing, 12 inches greater in diameter than wrapped cylinder and proper depth to retain hole and provide structural integrity of PVC casing. Provide minimum 10-gauge corrosion resistant well casing, water tight joints and closed bottom. Weld seams solid at multiple casing joints. Provide a steel ring at top of casing to be keyed into pit floor. Provide watertight seal at bottom using 2' - 0" thick non-shrink concrete plug of type for installation under water where drive casing is required and closed bottom casing cannot be installed.
    - 3) Provide minimum 3/8-inch-thick PVC or HDPE casing with watertight sealed couplings and bottom end caps. Inside diameter shall be 6" greater than outside diameter of cylinder. Extend PVC or HDPE above pit floor. Seal top of PVC or HPDE and provide an inspection port of 2" diameter by 4" long PVC pipe with threaded cap. Adjust for current code.
    - 4) Provide 16 hours for removal of existing cylinder assembly and 24 hours of drilling at no additional cost to the owner.
    - 5) Provide 20 barrels for spoils removal at no additional cost to owner.
    - 6) Remove spoils at no additional cost to owner.
    - 7) Installation: Set cylinder and PVC or HPDE casing within steel casing. Backfill between all voids with clean dry neutral silica sand, well tamped. After cylinder is set, provide a watertight laminating or epoxy resin seal between PVC and top of cylinder. Plunger and cylinder shall be plumb within 1/16 inch. Updated per new code or reference to be code compliant
  - b. Provide oil monitoring device as required per local code authorities.
  - c. Cylinder: Steel pipe, factory tested for a minimum of 600 pounds/square inch working pressure. Sandblast or wire brush outside of cylinder to remove rust and scale. Paint with heavy coat of epoxy or mastic. Work shall be done in shop and repaired in field if coating is damaged.
  - d. Plunger: Use seamless steel pipe or tubing, minimum Schedule 80. Plunger shall be no more than 0.010 inch out of round and straight within 1/16 inch. Protect during shipping and installation to avoid damage. If plunger is gouged, scarred or shows visible tool marks, it shall be replaced. Finish shall be 20 micro inches or finer. Plunger top shall be isolated from car frame. Plungers with follower guides are not acceptable.
  - e. Piping: Minimum Schedule 80 steel pipe suitable for 600 pounds pressure. No hoses shall be used in any part of piping. Provide sound isolating couplings in oil line between jack and pumping plant. Support piping using vibration isolating mounts or hangers with integral felt or neoprene at least 1/4" thick. Use threaded or welded joints throughout except at the connections to power unit and cylinder unit. Use no more than two Victaulic type connections in the machine room and two in the pit area.
    - 1) Overhead and Exposed Piping: Use Victaulic method of piping throughout system with Victaulic type 77 fittings or equal. Provide drip deflectors at

pipe joints where pipes run above inaccessible ceiling areas to prevent damage to these areas in case of joint leakage.

- 2) Underground Piping: Protect with extruded high-density polyethylene coating having a thickness of 25 to 60 mills applied with a minimum 8 mill thickness of modified rubber adhesive material all as manufactured by Plexco or equal. Install piping on 3" bed of clean, dry sand and backfill with additional 3" of sand.
- 3) Testing: Before enclosing pipe system, close ends, fill with fluid, establish 600 PSI pressure and allow to stand for 24 hours. Make corrective repairs to leaks or pressure drop.

2. Piping:

- a. Reuse existing.
  - 1) Provide new gaskets for Victaulic fittings and test for leaks.
  - 2) Packing: Provide packing, which inhibits leaking of oil with drip ring and means to collect any oil leakage. Example, 5-gallon bucket.

3. Isolation coupling

- a. Provide at least two isolation couplings one in the machine room and one in the pit.

G. Pit Valves:

- 1) Provide in each elevator pit a gate valve to shut off oil between cylinder and pumping plant.
- 2) Provided new a pressure type line rupture safety valve to shut off oil between cylinder head and pit valve. Activation of safety valve shall not void operation of lowering valve.

H. Oil:

1. Hydraulic Fluid: USDA certified bio-based product, ultra-low toxicity, "readily" biodegradable, high performing fluid made from rapidly renewable plant stock; with antioxidant, anticorrosive, antifoaming, and metal passivating additives. Hydraulic fluid is approved by elevator manufacture for use with elevator equipment.
  - a. USDA certified bio-based product, >90% bio-based content, per ASTM D6866
  - b. Classified "Readily" biodegradable, per OECD 301B
  - c. >70% Biodegradability, per ASTM D5864
  - d. >20,000 ppm Aquatic toxicity, per EPA-821-R-02-012
  - e. >220 Viscosity Index, ASTM D2270
  - f. 25 Viscosity at 400C, cSt., per ASTM D445
  - g. >2200C, Flash Point, per ASTM D92

2.13 MACHINE ROOM EQUIPMENT:

A. General:

1. Provide equipment to fit existing space and structural limitations. Coordinate related electrical, structural and mechanical work with other trades.

B. Pumping plant:

1. Provide new.
  - a. General: Self-contained unit with sound reducing cabinet and sound isolated base.

- b. Pump: IMO, Roper or accepted equal for 150 SSU oil, belt driven or submersible. Maximum speed 3600 RPM. Maximum pressure 425 pounds per square inch.
  - c. Tank: Capacity equal to plunger displacement plus 50%. Provide strainers, oil level gauge and device to maintain uniform oil temperature.
  - d. Electronic Control Valves: Integral type by Elevator Equipment Company, Maxton Company or by elevator manufacturer. Provide conveniently located manual lowering valve accessible without removing pumping plant enclosure panels.
  - e. Provide a gate valve to shut off oil for each pumping plant.
  - f. Motor: General Electric, Imperial, Westinghouse or accepted equal; maximum speed 1800 RPM for belt driven and 3600 RPM for submersible. Provide minimum 120 start heavy-duty motor, continuous rated, 50 degrees C. temperature rise, Class A insulation or 70 degrees C. rise for Class B insulation.
  - g. Muffler/Silencer: Blow-out proof type between pumping plant and cylinder.
- C. Controller:
- 1. Integral, floor or wall mounted as applicable to space conditions. Include door operating relays combined with controller. Provide solid state soft starting with starting switches rated at minimum 57% of horsepower rating. IEC method of line starter application is unacceptable. Provide three (3) manual reset overload relays, one in each line and reverse phase relay. Provide externally mounted permanently identified junction boxes on controller cabinets for termination of communication circuits. Pre-approved controllers:
    - a. Motion Control Engineering HMC-2000
- D. Hydraulic elevator protective circuit:
- 1. In the event the car should stall due to low oil in the system or, if for other cause the car fails to reach the top landing within a predetermined time while traveling "up", a special circuit shall be provided which shall automatically return the car to the bottom landing and open the doors for 10 seconds after which the elevator will close doors and completely shut down. Recycling the mainline switch shall restore Service.
- E. Hydraulic elevator battery emergency lowering operation:
- 1. Provide a battery driven unit which will initiate operation of the Protective Circuit and lower elevator to bottom landing in the event of a power failure.
  - 2. Service shall be restored automatically upon restoration of normal power supply.
  - 3. Arrange with an exposed method of testing.
  - 4. Arrange circuitry so that, if the mainline switch is open when the power transfer takes place, the elevator will not respond to the operation of the protective circuit.
  - 5. Provide a double pole-isolating switch on the battery unit to disconnect the battery output.

**PART 3 - EXECUTION:**

## 3.01 INSTALLATION:

- A. General:
  - 1. Install per manufacturer's requirements, those of regulatory agencies and as specified.
- B. Welded Construction:
  - 1. Provide welded connections for installation of elevator work where bolted connections are not required for subsequent removal or for normal operation, adjustments, inspection, maintenance and replacement of worn parts.
  - 2. Comply with AWS standards for workmanship and for qualifications of welding operators.
- C. Sound Isolation:
  - 1. Mount rotating and vibrating elevator equipment and components on vibration-absorption mounts, designed to effectively prevent transmission of vibrations to structure and thereby, eliminate sources of structure-borne noise from elevator system.
- D. Lubrication:
  - 1. Lubricate operating parts of systems as recommended by manufacturer.
- E. Hazardous Disposal Certification:
  - 1. Contractor to provide oil and hazardous waste removal documentation per required EPA standards. Provide copy of documentation to Owner.
- F. Alignment:
  - 1. Coordinate alignment of hoistway entrances with elevator guide rails, for accurate alignment of entrances with cars. Where possible, delay final adjustment of sills and doors until car is operable in shaft. Reduce clearances to minimum, safe workable dimensions at each landing.
  - 2. Align guide rails plumb and parallel with maximum deviation of 1/16 inch. Anchorage of guide rails in pits shall not compromise waterproofing.
- G. Graphics:
  - 1. Provide graphics visible to public as selected by Owner's Representative.
- H. Manufacturer's nameplates:
  - 1. Manufacturer's nameplates, trademarks or logos not permitted on surfaces visible to public.
- I. Cleaning of the installation:
  - 1. After the installation of each elevator has been completed and immediately prior to the carrying out of the tests, the machine room and all equipment therein, the elevator hoistways including outside of car and all ledges and similar areas, the elevator pit and equipment therein, and all door hanger runners, guides, tracks and sills shall be thoroughly cleaned down, preferably with vacuum cleaning equipment, and all dust, fluff, dirt, grit, excessive oil and grease and rubbish shall be removed from site.
- J. Finish painting after tests:
  - 1. After satisfactory completion of the tests, any damage to the paint work shall be made good and the installation re-cleaned, if necessary, after which at least one final coat of gloss oil resistant or enamelized paint shall be applied by brushing or spraying in

Contractor's customary colors to all the existing and new equipment in the machine room and also to such items in the hoistway or elsewhere which have received only a primer coat.

2. Painting shall be performed either during normal working hours or after hours at no additional cost to the Owner.
- K. Painting of machine room floor, walls and pit floors:
1. After the completion of the entire installation, the floor and walls of each machine room and pit areas shall be thoroughly cleaned down and brush painted with one coat of traffic paint having oil resistant properties. Pit floors shall be painted after the completion of the waterproofing. Owner's Representative will advise the color.
  2. Painting shall be performed either during normal working hours or after hours at no additional cost to the Owner.

### 3.02 NOISE CONTROL:

- A. General:
1. Contractor, in the preparation and the execution of the work, shall recognize the particular and mandatory requirements of the remodeling project due to the character of the work and the use occupancy of the building.
  2. Contractor shall perform all noisy work as directed by Owner's Representative.
- B. Building operations:
1. Noise and vibration generated by this construction for this work may, at times, create a problem for the operations of the building. In the event the noise produced by the construction work conflicts with the building function, Contractor, at the request of the Owner's Representative, shall reduce or stop the noise.
  2. All disruptive work including removal of old materials and deliveries of new materials shall be done on overtime at no additional cost to Owner.
  3. All disruptive work will be performed after hours at no additional cost to Owner.
- C. Measurement:
1. The noise level shall be measured on the "A" Scale of a sound level meter as follows:
    - a. With the meter located 3' - 0" from the nearest staff work station to the elevator lobby, the sound level shall not exceed 65 db.
    - b. With the meter located 3' - 0" from outside of each machine room door at floor level, the sound level shall not exceed 70 db.
    - c. With the meter located 3' - 0" from any hoistway door at any level, the sound level shall not exceed 70 db.
- D. Types of noise generating work:
1. All heavy demolition (concrete walls and floors).
  2. All grinding, chipping, pounding, sanding and cutting of holes and core drilling.

### 3.03 FIELD QUALITY CONTROL:

- A. Regulatory agencies inspection:
1. Upon completion of elevators, Contractor shall provide instruments, weights and personnel to conduct test required by regulatory agencies. Contractor shall submit a complete report describing the results of the tests.

B. Examination and testing:

1. When installation is ready for final acceptance, notify and assist Owner's Representative in making a walk-through inspection of entire installation to assure workmanship and equipment complies with contract documents. Provide equipment to perform the following tests:
  - a. One-hour heat and run test with full load in car. Perform for one car of each duty.
    - 1) Stop car at each floor in each direction.
    - 2) Verify that temperatures do not exceed manufacturer's motor ratings.
    - 3) Performance and leveling tests shall be made before and after heat and run test.
  - b. Check and verify operation of all safety features and special operations.
    - 1) Measure horizontal acceleration.
    - 2) Measure acoustical output levels in machine room, lobbies and cars.

C. Correction:

1. Make corrections to defects or discrepancies at no cost to Owner's Representative. Should discrepancies be such that re-examination and retesting is required, Contractor shall pay for all costs including those of Owner's Representative's fees.

D. Final acceptance:

1. Final acceptance of the installation will be made only after all corrections are complete, final submittals and certificates received and the Owner's Representative is satisfied and the installation is complete in all respects. Final payment will not be made until the above is completed.

3.04 INSTRUCTIONS:

- A. Instruct Owner's personnel in proper use of each system.

3.05 PROJECT RECORD DOCUMENTS:

A. As-built drawings:

1. Contractor shall maintain at the job site a separate and complete set of contract drawings which will be used solely for the purpose of recording changes made in any portion of the work during the course of construction, regardless of the reason for such change.
2. Changes, as they occur, will be marked on the record set of drawings on a daily basis.

B. Record drawings:

1. Contractor shall prepare "as-built" drawings in duplicate of any changes to electrical work on prints supplied by the Owner's Representative. During the course of construction, actual locations to scale shall be shown for all runs of mechanical and electrical work, installed in walls and floors or otherwise concealed. This shall cover all piping, electrical wiring; whether in conduit or cable, duct work, etc. shall be located, in addition, by dimension. All services shall be identified in ink on the prints.
2. In addition, Contractor shall keep a complete record copy of the plans and specifications for the use in preparing "as-built" plans and specifications at the end of the job. Contractor shall sign and date the prints and deliver them to the Owner's Representative.

## 3.06 MAINTENANCE:

## A. General:

1. Provide complete continuing maintenance on entire elevator equipment during regular working hours on regular working days from award of contract, through construction and for a period of twelve (12) months after completion and acceptance of all elevators.

## B. Examination:

1. Include systematic examination, adjustment, and lubrication of elevator equipment whenever required and replacement of defective parts with parts of same manufacture as required for proper operation. Contractor not responsible for repairs to car enclosures, door panels, frames, sills or platform flooring resulting from normal usage or misuse, accidents and negligence for which Contractor is not responsible. Examinations shall be performed monthly expending a minimum of one hour per unit per visit performing preventative maintenance service.
2. Performance standards:
  - a. Maintain the performance standard set forth in this Specification and maintain correct operation of the dispatching system.
  - b. Prior to commencement of work and at completion of work, Contractor shall conduct a ride analysis using an accelerometer on each elevator to document the ride conditions.
  - c. Maintain smooth starting and stopping, smooth riding qualities and accurate leveling at all times.

## C. Call-backs:

1. In event of failures, provide 24-hour call-back service at bonus time rates only to Owner.

## D. Elevator shutdowns:

1. Should any elevator become inoperative, repair within 24 hours of notification of such failure. Breakdown of major components shall be completed and service restored within 72 hours.
2. Failure to comply with above, Owner's Representative may order the work done by other contractors at Contractor's expense.
3. Devices repaired or replaced by others shall, nevertheless, become provided with maintenance by Contractor who shall become completely responsible for correct operation of such devices for lifetime of this contract.
4. Unscheduled Repairs:
  - a. Hoist ropes, governor ropes, machine work, and/or any major components that require to have an additional elevator out of service during the modernization, the contractor will repair and/or replace at contractors' expense at a time designated by the Owner at no expense to the Owner. This work may need to be completed after normal business hours.
5. Disconnecting controllers from group controllers and other car controllers shall be performed after hours at no additional cost to the Owner.
6. Initial applying of power to new controllers shall be performed after hours at no additional cost to Owner.



- E. Follow-up tests:
1. Test all safety devices and emergency operations at 6 month intervals or oftener and submit written report on each test. Make tests at times which do not interfere with building operation.
- F. Maintenance materials:
1. Expendable Parts: The Elevator Contractor shall provide a ion the technicians vehicle at least one machine room on project premises containing the following expendable parts required for prompt replacement. Parts used for routine maintenance shall be replenished and stored in machine room to ensure an adequate supply is available. Parts and cabinet shall become Owner's property and not removed upon expiration of maintenance period.
    - a. Two field replaceable resistors of each type installed.
    - b. One set hanger sheaves for car and hoistway doors.
    - c. Two relays and relay bases of each type installed.
    - d. Ten lamps of each type installed.
    - e. Car and hall buttons with identical graphics installed; six for manufacturer's standard buttons, one of each type for special buttons.
    - f. Ten fuses of each type installed.
    - g. Any other parts required for prompt replacement.
    - h. Lubricants and cleaners of all types used for maintenance.
  2. Replacement parts: Keep the following parts in a warehouse within twenty-five (25) miles of the project premises.
    - a. One door operator motor of each type used
    - b. Transformers of each type installed
    - c. Parts for door protective devices
    - d. Hall and car button modules
    - e. Such other parts as are needed to insure prompt replacement in event of elevator shutdown such as spare control boards for computer-operated systems.
- G. Maintenance data:
1. Submit three sets of complete and accurate maintenance data specific for each elevator at the midpoint of the project. Final acceptance and final payment will not be made until approved and received.
    - a. Manuals: Describe proper use and maintenance, inspection, and testing of equipment. All error codes and description of the codes will be part of the documents. It should also include lubrication points, types of lubricants used and frequency of lubricant application.
    - b. Provide information for all of the switches and functions that were installed.
    - c. Parts catalogs: Complete listing of all parts of equipment and components used in the installation.
    - d. Wiring diagrams: One laminated set mounted in machine room, one reproducible set delivered to Owner's Representative. Wiring diagrams shall be as built, specific for this installation, and reference identification on drawings shall match points identified on terminals of controllers.
    - e. Maintenance tool and software manuals: Provide maintenance tools, dongles, and supporting software documentation required for the complete maintenance of the entire system including diagnostics, adjusting, and testing. Maintenance

tool may be hand held or built into control system and shall be of the type not requiring recharging or reprogramming nor of the automatic destruct type. The tool and supporting software may be programmed to operate only with this project's identification serial numbering.

- H. Quotation: Base bid shall include cost of maintenance and materials as described above.
- I. Warranty Closeout: Edit per project. Include in proposal on a per project basis.
  - 1. Final Service: Two weeks before expiration of the warranty maintenance period, a representative of the Owner will make a complete survey of the equipment.
  - 2. Perform a survey of the maintenance work, trouble call logs, Fire Service Recall Logs, and other records to determine if work is complete and in compliance with the warranty maintenance scope of work.
  - 3. Should Owner and/or Owner's representative be required to perform a second verification site visit because failure of completion of the Correction / Deficiency List, Contractor shall compensate Owner and/or Owner's Representative for any costs incurred by the second and any subsequent verification site visits, on a per site visit basis.
  - 4. Failure of Contractor to complete any items on the Correction / Deficiency List within the stated time shall be cause for the assessment of liquidated damages including Owner procuring services from another elevator contractor with costs to be reimbursed to Owner by Contractor.

**END OF SECTION**

**PART G**  
**PREVAILING WAGES**

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS  
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1  
FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

**Craft: Elevator Constructor<sup>#</sup>**

**Determination:**  
SC-62-X-999-2021-1

**Issue Date:**  
February 22, 2021

**Expiration date of determination:**  
December 31, 2021\*\* The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Office of the Director - Research Unit for specific rates at (415) 703-4774.

**Localities:**  
All localities within Imperial, Los Angeles, Orange, Riverside, San Diego, Santa Barbara and Ventura counties. Portions of Kern, San Bernardino and San Luis Obispo counties are detailed below <sup>a</sup>.

**Wages and Employer Payments:**

Classification (Journeyman)	Basic Hourly Rate	Health and Welfare	Pension <sup>b</sup>	Vacation and Holiday <sup>c</sup>	Training	Other	Hours	Total Hourly Rate	Daily Overtime Hourly Rate (1 ½ X) <sup>d</sup>	Saturday Overtime Hourly Rate (1 ½ X) <sup>d</sup>	Sunday/ Holiday Overtime Hourly Rate
Mechanic	\$59.32	\$15.875	\$19.31	\$5.39	\$0.64	\$0.54	8.0	\$101.075	\$130.735	\$130.735	\$160.395
Mechanic (employed in industry more than 5 years)	\$59.32	\$15.875	\$19.31	\$6.58	\$0.64	\$0.54	8.0	\$102.265	\$131.925	\$131.925	\$161.585
Helper <sup>e</sup>	\$41.52	\$15.875	\$19.31	\$3.77	\$0.64	\$0.54	8.0	\$81.655	\$102.415	\$102.415	\$123.175
Helper (employed in industry more than 5 years) <sup>e</sup>	\$41.52	\$15.875	\$19.31	\$4.60	\$0.64	\$0.54	8.0	\$82.485	\$103.245	\$103.245	\$124.005

**Recognized holidays:**  
Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the [Director's General Prevailing Wage Determinations Website](http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm) (<http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm>). Holiday provisions for current or superseded determinations may be obtained by contacting the Office of the Director – Research Unit at (415) 703-4774.

**Travel and/or subsistence payment:**

In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the [Director's General Prevailing Wage Determinations Website](http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm) (<http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm>). Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Office of the Director – Research Unit at (415) 703-4774.

# Indicates an apprenticeable craft. The current apprentice wage rates are available on the [Prevailing Wage Apprentice Determinations Website](http://www.dir.ca.gov/OPRL/PWAppWage/PWAppWageStart.asp) (<http://www.dir.ca.gov/OPRL/PWAppWage/PWAppWageStart.asp>).

<sup>a</sup> Applies to that portion of these counties south of the Tehachapi Line. For more information contact the Office of the Director – Research Unit.

<sup>b</sup> Includes an amount for Annuity Trust Fund.

<sup>c</sup> Includes an amount for 8 paid holidays.

<sup>d</sup> For Contract Service work only. All other overtime is paid at the Sunday/Holiday rate.

<sup>e</sup> Ratio: The total number of Helpers employed shall not exceed the number of Mechanics on any one job. When removing old and installing new cables on existing elevator installations, the Company may use two (2) Helpers, Apprentices or Assistant Mechanics to one (1) Mechanic. Two (2) Helpers, Apprentices or Assistant Mechanics to each three (3) Mechanics may be employed in Contract Service work only. For more information on the use of Helpers, contact the Office of the Director – Research Unit.

## PREDETERMINED INCREASE

### **CRAFT/CLASSIFICATION:**

Elevator Constructor

### **DETERMINATION:**

SC-62-X-999-2021-1

### **LOCALITIES:**

All localities within Imperial, Los Angeles, Orange, Riverside, San Diego, Santa Barbara, and Ventura Counties. Portions of Kern<sup>a</sup>, San Bernardino<sup>a</sup>, and San Luis Obispo<sup>a</sup> Counties

This predetermined increase for the above named craft applies only to the current determination for work being performed on public works projects with bid advertisement dates on or after March 4, 2021, until this determination is superseded by a new determination or a predetermined increase modification notice becomes effective.

When referencing our prevailing wage determinations, please note that if the prevailing wage rate determination which was in effect on the bid advertisement date of a project, has a single asterisk (\*) after the expiration date, the rate will be good for the life of the project. However, if a prevailing wage rate determination has double asterisks (\*\*) after the expiration date, the rate must be updated on the following date to reflect the predetermined rate change(s).

### **MECHANIC**

Determination SC-62-X-999-2021-1 is currently in effect and expires on December 31, 2021\*\*.

Effective January 1, 2022, there will be an increase of \$3.32 allocated to wages and/or employer payments.

### **MECHANIC (Employed in industry more than 5 years)**

Determination SC-62-X-999-2021-1 is currently in effect and expires on December 31, 2021\*\*.

Effective January 1, 2022, there will be an increase of \$3.32 allocated to wages and/or employer payments.

### **HELPER**

Determination SC-62-X-999-2021-1 is currently in effect and expires on December 31, 2021\*\*.

Effective January 1, 2022, there will be an increase of \$2.68 allocated to wages and/or employer payments.

### **HELPER (Employed in industry more than 5 years)**

Determination SC-62-X-999-2021-1 is currently in effect and expires on December 31, 2021\*\*.

Effective January 1, 2022, there will be an increase of \$2.68 allocated to wages and/or employer payments.

There will be no further predetermined increases applicable to this determination.

Issued February 22, 2021. Effective March 4, 2021 until superseded.  
This page will be updated when wage rate breakdown information becomes available.  
Last Updated: March 4, 2021

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<sup>a</sup> Applies to that portion of these Counties South of the Tehachapi line

# GENERAL PREVAILING WAGE APPRENTICE RATES

Apprentice Prevailing Wage Rates are paid only to apprentices registered with the State of California, Division of Apprenticeship Standards, for work the registered apprentice performs in his/her specific craft or trade. You may check whether an Apprentice is registered at the [Division of Apprenticeship Standards Website](https://www.dir.ca.gov/DAS/appcertpw/AppCertSearch.asp) (https://www.dir.ca.gov/DAS/appcertpw/AppCertSearch.asp)

**Determination:** 2021-1

**Issue Date:** 02-22-2021

**Expire Date:** 12-31-2021 \*\*

**Craft/Classification:** Elevator Constructor

**Counties:** Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Inyo, Kern (Portion North Of The Tehachapi Line), Kings, Lake, Lassen, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Mono, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Benito, San Bernardino (Portion North Of The Tehachapi Line), San Francisco, San Joaquin, San Luis Obispo (Portion North Of The Tehachapi Line), San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, Yuba

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	600	\$36.050	\$0.000	\$0.000	\$2.160	\$0.000	\$0.000	\$38.210
2	6	600	\$39.660	\$15.875	\$19.310	\$2.380	\$0.640	\$0.540	\$78.405
3	12	1,200	\$46.870	\$15.875	\$19.310	\$2.810	\$0.640	\$0.540	\$86.045
4	12	1,200	\$50.470	\$15.875	\$19.310	\$3.030	\$0.640	\$0.540	\$89.865
5	12	1,200	\$57.680	\$15.875	\$19.310	\$3.460	\$0.640	\$0.540	\$97.505

## FOOTNOTE(S)

**PENSION:** Includes \$8.85 for Annuity per hour for periods 2 to 5.

**VACATION:** 6% Employees under five (5) years in industry based on regular hourly rate for all hours worked and 8% Employees over five (5) years in industry based on regular hourly rate for all hours worked.



NOTE: For the 4th period apprentices (Employed in industry more than 5 years), the vacation/holiday payment is \$4.04 and the total hourly rate is \$90.875. For the 5th period apprentices (Employed in industry more than 5 years), the vacation/holiday payment is \$4.61 and the total hourly rate is \$98.655.

OTHER: \$0.54 per hour for EIWPF (Elevator Industry Work Preservation Fund) for periods 2 to 5.

**\*\* Journeyman Predetermined Increases**

Effective 1/1/2022, there will be a \$3.56 increase to be allocated to wages and/or employer payments for Journeyman Mechanic.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please fax a request to (415) 703-4771 or send to the following address:

Department of Industrial Relations

Office of the Director - Research Unit

P.O. Box 420603

San Francisco, CA 94142-0603

**Determination:** 2021-1

**Issue Date:** 02-22-2021

**Expire Date:** 12-31-2021 \*\*

**Craft/Classification:** Elevator Constructor

**Counties:** Imperial, Inyo, Kern (Portion South Of The Tehachapi Line), Los Angeles, Orange, Riverside, San Bernardino (Portion South Of The Tehachapi Line), San Diego, San Luis Obispo (Portion South Of The Tehachapi Line), Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	850	\$29.660	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$29.660
2	6	850	\$32.630	\$15.875	\$19.310	\$2.960	\$0.640	\$0.540	\$71.955
3	12	1,700	\$38.560	\$15.875	\$19.310	\$3.510	\$0.640	\$0.540	\$78.435
4	12	1,700	\$41.520	\$15.875	\$19.310	\$3.770	\$0.640	\$0.540	\$81.655
5	12	1,700	\$47.460	\$15.875	\$19.310	\$4.310	\$0.640	\$0.540	\$88.135

## FOOTNOTE(S)

1) Pension includes the following: Defined Benefit Pension Plan - \$10.46 / Defined Contribution Pension Plan - \$8.85

2) Other: Elevator Work Preservation Fund - \$0.54

JOURNEYMAN PREDETERMINED INCREASES:

MECHANIC:

Effective January 1, 2022 -- an increase of \$3.32 allocated to wages and/or employer payments.

MECHANIC (Employed in industry more than 5 years):

Effective January 1, 2022 -- an increase of \$3.32 allocated to wages and/or employer payments.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please fax a request to (415) 703-4771 or send to the following address:

Department of Industrial Relations

Office of the Director - Research Unit

P.O. Box 420603

San Francisco, CA 94142-0603

## GENERAL PREVAILING WAGE APPRENTICE RATES

Apprentice Prevailing Wage Rates are paid only to apprentices registered with the State of California, Division of Apprenticeship Standards, for work the registered apprentice performs in his/her specific craft or trade. You may check whether an Apprentice is registered at the [Division of Apprenticeship Standards Website](https://www.dir.ca.gov/DAS/appcertpw/AppCertSearch.asp) (<https://www.dir.ca.gov/DAS/appcertpw/AppCertSearch.asp>)

**Determination:** 2021-1

**Issue Date:** 02-22-2021

**Expire Date:** 07-25-2021 \*\*

**Craft/Classification:** Electrician, Inside Wireman

**Shift:** 1

**Counties:** Los Angeles

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	N/A	\$20.600	\$12.190	\$6.20	\$0.00	\$810	\$550	\$34.770
2	6	N/A	\$23.180	\$12.190	\$7.700	\$0.00	\$810	\$550	\$37.430
3	6	N/A	\$25.750	\$13.190	\$8.180	\$0.00	\$810	\$550	\$48.480
4	6	N/A	\$28.330	\$13.190	\$9.000	\$0.00	\$810	\$550	\$51.880
5	6	N/A	\$30.900	\$13.190	\$9.820	\$0.00	\$810	\$550	\$55.270
6	6	N/A	\$33.480	\$13.190	\$10.630	\$0.00	\$810	\$550	\$58.660
7	6	N/A	\$36.050	\$13.190	\$11.450	\$0.00	\$810	\$550	\$62.050
8	6	N/A	\$38.630	\$13.190	\$12.280	\$0.00	\$810	\$550	\$65.460
9	6	N/A	\$41.200	\$13.190	\$13.100	\$0.00	\$810	\$550	\$68.850
10	6	N/A	\$43.780	\$13.190	\$13.910	\$0.00	\$810	\$550	\$72.240

### FOOTNOTE(S)

Pension – includes amounts for defined contribution and benefit plans for apprentices above Period 2. Includes an amount equal to 3% of the basic hourly rate for the National Employees Benefit Fund which is factored at the applicable overtime multiplier for each overtime hour. Pursuant to Labor Code Sections 1773.1 and 1773.8 the amount paid for this employer payment may vary resulting in a lower taxable basic hourly wage rate, but the total hourly rates for straight time and overtime may not be less than the general prevailing rate of per diem wages.

<https://www.dir.ca.gov/OPRL/pwappwage/wage/21119220.html?VarWageId=21119220>

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3/10/2021

GENERAL PREVAILING WAGE APPRENTICE RATES – Electrician, Inside Wireman 2021-1 | Department of Industrial Relations

Vacation/Holiday included in the Basic Hourly Rate.

Journeyman Predetermined Increases:

7/26/2021: \$2.05 to be allocated to wages and/or fringes.

1/31/2022: \$2.10 to be allocated to wages and/or fringes.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please fax a request to (415) 703-4771 or send to the following address:

Department of Industrial Relations, Office of the Director - Research Unit

P.O. Box 420603

San Francisco, CA 94142-0603

**Determination:** 2021-1

**Issue Date:** 02-22-2021

**Expire Date:** 07-25-2021 \*\*

**Craft/Classification:** Electrician, Inside Wireman

**Shift:** 2

**Counties:** Los Angeles

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	N/A	\$24.160	\$12.190	\$ .720	\$ .000	\$ .810	\$ .550	\$38.430
2	6	N/A	\$27.190	\$12.190	\$ .820	\$ .000	\$ .810	\$ .550	\$41.560
3	6	N/A	\$30.200	\$13.190	\$ .820	\$ .000	\$ .810	\$ .550	\$53.070
4	6	N/A	\$33.230	\$13.190	\$ .9150	\$ .000	\$ .810	\$ .550	\$56.930
5	6	N/A	\$36.250	\$13.190	\$ .9980	\$ .000	\$ .810	\$ .550	\$60.780
6	6	N/A	\$39.270	\$13.190	\$10.810	\$ .000	\$ .810	\$ .550	\$64.630
7	6	N/A	\$42.290	\$13.190	\$11.640	\$ .000	\$ .810	\$ .550	\$68.480
8	6	N/A	\$45.310	\$13.190	\$12.480	\$ .000	\$ .810	\$ .550	\$72.340
9	6	N/A	\$48.330	\$13.190	\$13.310	\$ .000	\$ .810	\$ .550	\$76.190
10	6	N/A	\$51.350	\$13.190	\$14.140	\$ .000	\$ .810	\$ .550	\$80.040

<https://www.dir.ca.gov/OPRL/pwappwage/wage/21119220.html?VarWageId=21119220>

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## FOOTNOTE(S)

Pension -- includes amounts for defined contribution and benefit plans for apprentices above Period 2. Includes an amount equal to 3% of the basic hourly rate for the National Employees Benefit Fund which is factored at the applicable overtime multiplier for each overtime hour. Pursuant to Labor Code Sections 1773.1 and 1773.8 the amount paid for this employer payment may vary resulting in a lower taxable basic hourly wage rate, but the total hourly rates for straight time and overtime may not be less than the general prevailing rate of per diem wages.

Vacation/Holiday included in the Basic Hourly Rate.

Journeyman Predetermined Increases:

7/26/2021: \$2.05 to be allocated to wages and/or fringes.

1/31/2022: \$2.10 to be allocated to wages and/or fringes.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please fax a request to (415) 703-4771 or send to the following address:

Department of Industrial Relations, Office of the Director - Research Unit

P.O. Box 420603

San Francisco, CA 94142-0603

**Determination:** 2021-1

**Issue Date:** 02-22-2021

**Expire Date:** 07-25-2021 \*\*

**Craft/Classification:** Electrician, Inside Wireman

**Shift:** 3

**Counties:** Los Angeles

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	N/A	\$27.070	\$12.190	\$.810	\$.000	\$.810	\$.550	\$41.430
2	6	N/A	\$30.460	\$12.190	\$.910	\$.000	\$.810	\$.550	\$44.920
3	6	N/A	\$33.840	\$13.190	\$.8430	\$.000	\$.810	\$.550	\$56.820
4	6	N/A	\$37.230	\$13.190	\$.9270	\$.000	\$.810	\$.550	\$61.050

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
5	6	N/A	\$40.600	\$13.190	\$10.110	\$0.000	\$0.810	\$0.550	\$65.260
6	6	N/A	\$43.990	\$13.190	\$10.950	\$0.000	\$0.810	\$0.550	\$69.490
7	6	N/A	\$47.370	\$13.190	\$11.790	\$0.000	\$0.810	\$0.550	\$73.710
8	6	N/A	\$50.760	\$13.190	\$12.640	\$0.000	\$0.810	\$0.550	\$77.950
9	6	N/A	\$54.140	\$13.190	\$13.480	\$0.000	\$0.810	\$0.550	\$82.170
10	6	N/A	\$57.530	\$13.190	\$14.330	\$0.000	\$0.810	\$0.550	\$86.410

## FOOTNOTE(S)

Pension -- includes amounts for defined contribution and benefit plans for apprentices above Period 2. Includes an amount equal to 3% of the basic hourly rate for the National Employees Benefit Fund which is factored at the applicable overtime multiplier for each overtime hour. Pursuant to Labor Code Sections 1773.1 and 1773.8 the amount paid for this employer payment may vary resulting in a lower taxable basic hourly wage rate, but the total hourly rates for straight time and overtime may not be less than the general prevailing rate of per diem wages.

Vacation/Holiday included in the Basic Hourly Rate.

Journeyman Predetermined Increases:

7/26/2021: \$2.05 to be allocated to wages and/or fringes.

1/31/2022: \$2.10 to be allocated to wages and/or fringes.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please fax a request to (415) 703-4771 or send to the following address:

Department of Industrial Relations, Office of the Director - Research Unit

P.O. Box 420603

San Francisco, CA 94142-0603

**GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS**

LOCALITY: LOS ANGELES COUNTY  
 DETERMINATION: LOS-2021-1

CRAFT	CLASSIFICATION	CRAFT FOOTNOTE	ISSUE DATE	EXPIRATION DATE	BASIC HOURLY RATE	BASIC HOURLY RATE FOOTNOTE	HEALTH AND WELFARE	HEALTH AND WELFARE FOOTNOTE	PENSION	PENSION FOOTNOTE	VACATION/ HOLIDAY	VACATION/ HOLIDAY FOOTNOTE	TRAINING	TRAINING FOOTNOTE
#BRICKLAYER, STONEMASON,	MARBLE MASON, CEMENT BLOCKLAYER, POINTER, CAULKER, CLEANER		08/22/2020	04/30/2021	\$41.530	A	\$9,250		\$9,210		\$0,000		\$1,020	B
#BRICKLAYER:	MASON FINISHER		08/22/2020	04/30/2021	\$29,070	A	\$9,250		\$9,210		\$0,000		\$0,890	B
#BRICK TENDER		E	08/22/2020	06/30/2021	\$34,000		\$8,000		\$8,400		\$4,400	E	\$0,700	
#BRICK TENDER	FORKLIFT OPERATOR		08/22/2020	06/30/2021	\$34,450		\$8,000		\$8,400		\$4,400	E	\$0,700	
#CARPET, LINOLEUM,	RESILIENT TILE LAYER		02/22/2021	12/31/2021	\$38,750	G	\$5,630		\$5,550		\$2,220		\$0,630	
CARPET, LINOLEUM,	MATERIAL HANDLER	I	02/22/2021	12/31/2021	\$14,000	G	\$5,630		\$1,940		\$0,720		\$0,630	
#DRYWALL FINISHER		K	02/22/2021	09/30/2021	\$39,050	L	\$8,850		\$7,130		\$4,070		\$0,870	
#DRYWALL FINISHER			02/22/2021	09/30/2021	\$43,180	G	\$8,850		\$7,130		\$4,070		\$0,870	
#ELECTRICIAN:	SOUND INSTALLER		02/22/2021	12/26/2021	\$41,520		\$8,560		\$5,120	N	\$0,000		\$0,650	
#ELECTRICIAN:	INSIDE WIREMAN, RADIO MONITOR TECHNICIAN		02/22/2021	07/25/2021	\$51,500		\$13,190		\$14,820	Q	\$0,000	B	\$0,760	
#ELECTRICIAN:	CABLE SPLICER- WELDER		02/22/2021	07/25/2021	\$54,080		\$13,190		\$14,820	Q	\$0,000	B	\$0,760	
#ELECTRICIAN:	TUNNEL WIREMAN		02/22/2021	07/25/2021	\$56,650		\$13,190		\$14,820	Q	\$0,000	B	\$0,760	
#ELECTRICIAN:	TUNNEL CABLE SPLICER		02/22/2021	07/25/2021	\$59,480		\$13,190		\$14,820	Q	\$0,000	B	\$0,760	
#ELECTRICIAN:	TRANSPORTATION SYSTEMS ELECTRICIAN		02/22/2021	07/25/2021	\$51,300		\$13,140		\$15,070	Q	\$0,000	B	\$0,760	
#ELECTRICIAN:	TRANSPORTATION SYSTEMS ELECTRICIAN (CABLE SPLICING, WELDING, AND NETA TESTING)		02/22/2021	07/25/2021	\$53,870		\$13,140		\$15,070	Q	\$0,000	B	\$0,760	

CRAFT	CLASSIFICATION	CRAFT FOOTNOTE	ISSUE DATE	EXPIRATION DATE	BASIC HOURLY RATE	BASIC HOURLY RATE FOOTNOTE	HEALTH AND WELFARE	HEALTH AND WELFARE FOOTNOTE	PENSION	PENSION FOOTNOTE	VACATION/HOLIDAY	VACATION/HOLIDAY FOOTNOTE	TRAINING	TRAINING FOOTNOTE
ELECTRICIAN:	TRANSPORTATION SYSTEMS TECHNICIAN	<a href="#">S</a>	02/22/2021	07/25/2021**	\$38.480		\$13.140		\$15.070	<a href="#">Q</a>	\$0.000	<a href="#">R</a>	\$0.760	
#FIELD SURVEYOR:	CHIEF OF PARTY (018.167-010)	<a href="#">I</a>	02/22/2021	09/30/2021**	\$53.960		\$11.860		\$12.150		\$4.770	<a href="#">F</a>	\$1.150	
#FIELD SURVEYOR:	INSTRUMENTMAN (018.167-034)	<a href="#">I</a>	02/22/2021	09/30/2021**	\$50.460		\$11.860		\$12.150		\$4.600	<a href="#">E</a>	\$1.150	
#FIELD SURVEYOR:	CHAINMAN/RODMAN (889.567-010)	<a href="#">I</a>	02/22/2021	09/30/2021**	\$49.880		\$11.860		\$12.150		\$4.550	<a href="#">E</a>	\$1.150	
#GLAZIER			08/22/2020	06/31/2021**	\$47.960	<a href="#">L</a>	\$7.750	<a href="#">V</a>	\$13.450		\$0.000	<a href="#">W</a>	\$0.770	
#MARBLE FINISHER			08/22/2020	06/31/2021**	\$34.690	<a href="#">Y</a>	\$9.000		\$4.270		\$0.000		\$0.830	
#PAINTER:	PAINTER, LEAD ABATEMENT	<a href="#">AC</a>	02/22/2021	06/30/2021**	\$33.120	<a href="#">L</a>	\$9.000		\$4.940		\$2.550		\$0.750	
#PAINTER:	REPAINT PAINTER, LEAD ABATEMENT	<a href="#">AC</a>	02/22/2021	06/30/2021*	\$29.590	<a href="#">L</a>	\$9.000		\$4.940		\$2.430		\$0.750	
#PAINTER:	PAINTER, LEAD ABATEMENT	<a href="#">AE</a>	02/22/2021	06/30/2021**	\$28.680	<a href="#">L</a>	\$9.000		\$4.940		\$2.410		\$0.750	
#PAINTER:	REPAINT PAINTER, LEAD ABATEMENT	<a href="#">AE</a>	02/22/2021	06/30/2021*	\$26.400	<a href="#">L</a>	\$9.000		\$4.940		\$2.330		\$0.750	
#PAINTER:	INDUSTRIAL PAINTER	<a href="#">AC</a>	02/22/2021	06/30/2021**	\$35.520	<a href="#">L</a>	\$9.000		\$4.940		\$2.850		\$0.850	
#PAINTER:	INDUSTRIAL REPAINT PAINTER	<a href="#">AC</a>	02/22/2021	06/30/2021*	\$31.940	<a href="#">L</a>	\$9.000		\$4.940		\$2.710		\$0.850	
PAINTER:	GRAFFITI REMOVAL WORKER JOURNEYMAN (APPLIES ONLY TO PAINT-OVER METHOD)	<a href="#">AG</a>	02/22/2021	01/31/2022*	\$24.000		\$8.400		\$1.000		\$0.000		\$0.750	
PAINTER:	GRAFFITI REMOVAL WORKER 1 (APPLIES ONLY TO PAINT-OVER METHOD)	<a href="#">AH</a>	02/22/2021	01/31/2022*	\$16.500		\$8.400		\$1.000		\$0.000		\$0.750	
PAINTER:	GRAFFITI REMOVAL WORKER 2 (APPLIES ONLY TO PAINT-OVER METHOD)	<a href="#">AI</a>	02/22/2021	01/31/2022*	\$17.370		\$8.400		\$1.000		\$0.000		\$0.750	
#PLASTERER			08/22/2020	08/03/2021**	\$37.960		\$9.360		\$6.840		\$6.890	<a href="#">AJ</a>	\$0.990	
#PLASTER TENDER			08/22/2020	08/03/2021**	\$38.980		\$8.000		\$8.710		\$5.200	<a href="#">AN</a>	\$1.050	
PLASTER TENDER	PLASTER CLEAN-UP LABORER	<a href="#">AM</a>	08/22/2020	08/03/2021**	\$38.030		\$8.000		\$8.710		\$5.200	<a href="#">AN</a>	\$1.050	
#PLUMBER:	PLUMBER, INDUSTRIAL AND GENERAL PIPEFITTER		08/22/2020	08/31/2021**	\$52.280	<a href="#">AQ</a>	\$8.910		\$13.300	<a href="#">AR</a>	\$0.000	<a href="#">AS</a>	\$2.500	
#PLUMBER:	SEWER AND STORM DRAIN PIPELAYER		08/22/2020	08/31/2021**	\$39.390	<a href="#">AQ</a>	\$8.800		\$10.450	<a href="#">AR</a>	\$0.000	<a href="#">AS</a>	\$2.230	
PLUMBER:	SEWER AND STORM DRAIN PIPE TRADESMAN	<a href="#">AV</a>	08/22/2020	08/31/2021**	\$19.500	<a href="#">AW</a>	\$9.050		\$0.360		\$0.000		\$1.360	



CRAFT	CLASSIFICATION	CRAFT FOOTNOTE	ISSUE DATE	EXPIRATION DATE	BASIC HOURLY RATE	BASIC HOURLY RATE FOOTNOTE	HEALTH AND WELFARE	HEALTH AND WELFARE FOOTNOTE	PENSION	PENSION FOOTNOTE	VACATION/HOLIDAY	VACATION/HOLIDAY FOOTNOTE	TRAINING FOOTNO
#PLUMBER:	LANDSCAPE/IRRIGATION FITTER		08/22/2020	08/31/2021**	\$35.300	Y	\$8,910		\$13,300	AB	\$0,000	AS	\$1,890
PLUMBER:	LANDSCAPE/IRRIGATION TRADESMAN	AX	08/22/2020	08/31/2021**	\$15.360	Y	\$3,000		\$1,160	AR	\$0,000		\$0,100
#PLUMBER:	REFRIGERATION SERVICE HVACR		08/22/2020	08/29/2021**	\$50.200	G	\$10,620		\$10,340	AY	\$0,000	R	\$2,250
PLUMBER:	REFRIGERATION SERVICE TRADESMAN HVACR		08/22/2020	08/29/2021*	\$15.200	G	\$10,620		\$2,080		\$0,000	R	\$1,300
#PLUMBER:	FIRE SPRINKLER FITTER (PROTECTION AND CONTROL SYSTEMS, OVERHEAD AND UNDERGROUND)	BB	08/22/2020	03/31/2021*	\$39.880		\$10,230		\$14,960	BC	\$0,000		\$0,520
#PLUMBER:	FIRE SPRINKLER FITTER (PROTECTION AND CONTROL SYSTEMS, OVERHEAD AND UNDERGROUND)	BD	02/22/2021	08/31/2021*	\$48.710		\$10,550		\$17,000		\$0,000	R	\$1,600
#ROOFER			02/22/2021	07/31/2021**	\$40.770	BG	\$8,560		\$9,070	BH	\$0,000	BL	\$0,530
#ROOFER	PITCH WORK		02/22/2021	07/31/2021**	\$42.520	BG	\$8,560		\$9,070	BH	\$0,000	BL	\$0,530
#ROOFER	PREPARER		02/22/2021	07/31/2021**	\$41.770	BG	\$8,560		\$9,070	BH	\$0,000	BL	\$0,530
#SHEET METAL WORKER		BL	02/22/2021	06/30/2021*	\$48.280	L	\$11,120		\$17,540	BM	\$0,000		\$0,820
#SHEET METAL WORKER		BO	02/22/2021	06/30/2021*	\$36.880	G	\$11,120		\$15,720	BP	\$0,000		\$1,670
#TERRAZZO FINISHER			08/22/2020	08/31/2021**	\$33.660	G	\$9,250		\$4,220		\$0,000	R	\$0,730
#TERRAZZO WORKER			08/22/2020	08/31/2021**	\$41.600	G	\$9,250		\$4,480		\$0,000	R	\$1,000
#TILE FINISHER			08/22/2020	05/31/2021**	\$29.430	Y	\$9,000		\$2,750		\$0,000		\$0,760
#TILE LAYER			08/22/2020	05/31/2021**	\$41.740	Y	\$9,000		\$9,220		\$0,000		\$0,940

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**FOOTNOTES**

- \* EFFECTIVE UNTIL SUPERSEDED BY A NEW DETERMINATION ISSUED BY THE DIRECTOR OF INDUSTRIAL RELATIONS. CONTACT THE OFFICE OF THE DIRECTOR - RESEARCH UNIT AT (415) 703-4774 FOR THE NEW RATES AFTER TEN DAYS AFTER THE EXPIRATION DATE IF NO SUBSEQUENT DETERMINATION IS ISSUED.
- \*\* THE RATE TO BE PAID FOR WORK PERFORMED AFTER THIS DATE HAS BEEN DETERMINED. IF WORK WILL EXTEND PAST THIS DATE, THE NEW RATE MUST BE PAID AND SHOULD BE INCORPORATED IN CONTRACTS ENTERED INTO NOW. CONTACT THE OFFICE OF THE DIRECTOR - RESEARCH UNIT FOR SPECIFIC RATES AT (415) 703-4774.
- # INDICATES AN APPRENTICEABLE CRAFT. THE CURRENT APPRENTICE WAGE RATES ARE AVAILABLE ON THE INTERNET @ [HTTP://WWW.DIR.CA.GOV/OPRLUP/WAPPWAGE/PWAPPWAGESTART.ASP](http://www.dir.ca.gov/OPRLUP/WAPPWAGE/PWAPPWAGESTART.ASP).

3/10/2021

GENERAL PREVAILING WAGE DETERMINATION - LOS-2021-1

- & THE BASIC HOURLY RATE AND EMPLOYER PAYMENTS ARE NOT TAKEN FROM A COLLECTIVE BARGAINING AGREEMENT FOR THIS CRAFT OR CLASSIFICATION.
- A INCLUDES AMOUNT WITHHELD FOR DUES CHECK OFF AND CONTRACT COMPLIANCE.
  - B INCLUDES AN AMOUNT FOR IMI TRAINING FUND.
  - C SATURDAYS IN THE SAME WORK WEEK MAY BE WORKED AT STRAIGHT-TIME IF JOB IS SHUT DOWN DURING THE NORMAL WORKWEEK DUE TO INCLEMENT WEATHER, OR REASONS BEYOND THE CONTROL OF THE EMPLOYER.
  - D RATE APPLIES TO THE FIRST 2 DAILY OVERTIME HOURS AND THE FIRST 10 HOURS ON SATURDAY; ALL OTHER TIME IS PAID AT THE SUNDAY AND HOLIDAY OVERTIME HOURLY RATE.
  - E THE RATIO OF BRICK TENDERS TO BRICKLAYERS SHALL BE AS FOLLOWS: ONE (1) BRICK TENDER TO NO MORE THAN THREE (3) BRICKLAYERS DURING THE INSTALLATION OF BLOCK ON A TYPICAL MASONRY PROJECT.
  - F INCLUDES AN AMOUNT PER HOUR WORKED FOR SUPPLEMENTAL DUES.
  - G INCLUDES AMOUNT WITHHELD FOR DUES CHECK OFF.
  - H RATE APPLIES TO THE FIRST 12 HOURS WORKED ON SATURDAY, ALL OTHER TIME IS PAID AT DOUBLE TIME. SATURDAY MAY BE WORKED AT THE STRAIGHT-TIME HOURLY RATE FOR THE FIRST 8 HOURS IF INCLEMENT WEATHER FORCES A SYNTHETIC/ARTIFICIAL TURF PROJECT TO SHUT DOWN DURING THE REGULAR WORK WEEK (MONDAY THROUGH FRIDAY).
  - I A MATERIAL HANDLER MAY BE UTILIZED IN RATIO OF ONE (1) MATERIAL HANDLER WITH ANY FIVE (5) JOURNEYMEN ON ANY GIVEN PROJECT.
  - J RATE APPLIES TO THE FIRST 12 HOURS ON SATURDAY, ALL OTHER TIME IS PAID AT DOUBLE TIME.
  - K RATE ONLY APPLIES TO WORK PERFORMED IN ANTELOPE VALLEY WHICH IS HIGHWAY 5, SOUTH ON U.S. 5 TO HIGHWAY N2, EAST ON HIGHWAY N2 TO PALMDALE BLVD TO HIGHWAY 14; SOUTH TO HIGHWAY 18; EAST TO HIGHWAY 395.
  - L INCLUDES AMOUNT WITHHELD FOR WORKING DUES.
  - M RATE APPLIES TO FIRST 8 HOURS ONLY. DOUBLE TIME THEREAFTER. SATURDAYS IN THE SAME WORK WEEK MAY BE WORKED AT STRAIGHT-TIME IF JOB IS SHUT DOWN DURING THE NORMAL WORK WEEK DUE TO INCLEMENT WEATHER.
  - N IN ADDITION, AN AMOUNT EQUAL TO 3% OF THE BASIC HOURLY RATE IS ADDED TO THE TOTAL HOURLY RATE AND OVERTIME HOURLY RATES FOR THE NATIONAL EMPLOYEES BENEFIT BOARD.
  - O INCLUDES AN AMOUNT FOR THE NATIONAL LABOR-MANAGEMENT COOPERATION FUND AND THE ADMINISTRATIVE MAINTENANCE FUND.
  - P RATE APPLIES TO THE FIRST 4 DAILY OVERTIME HOURS AND THE FIRST 12 HOURS WORKED ON SATURDAY; ALL OTHER TIME IS PAID AT THE SUNDAY AND HOLIDAY OVERTIME HOURLY RATE.
  - Q IN ADDITION, AN AMOUNT EQUAL TO 3% OF THE BASIC HOURLY RATE IS ADDED TO THE TOTAL HOURLY RATE AND OVERTIME HOURLY RATES FOR THE NATIONAL EMPLOYEES BENEFIT BOARD. PURSUANT TO LABOR CODE SECTIONS 1773.1 AND 1773.8, THE AMOUNT PAID FOR THIS EMPLOYER PAYMENT MAY VARY RESULTING IN A LOWER TAXABLE BASIC HOURLY WAGE RATE, BUT THE TOTAL HOURLY RATES FOR STRAIGHT TIME AND OVERTIME MAY NOT BE LESS THAN THE GENERAL PREVAILING RATE OF PER DIEM WAGES.
  - R INCLUDED IN STRAIGHT-TIME HOURLY RATE.
  - S THE MAXIMUM ALLOWABLE RATIO IS ONE TRANSPORTATION SYSTEMS TECHNICIAN TO ONE JOURNEYMAN ON EACH JOB.
  - T DICTIONARY OF OCCUPATIONAL TITLES, FOURTH EDITION, 1977, U.S. DEPARTMENT OF LABOR.
  - U INCLUDES AMOUNT WITHHELD FOR DUES CHECKOFF, WHICH IS FACTORED IN THE OVERTIME RATES. INCLUDES \$3.00 FOR VACATION THAT IS NOT FACTORED IN THE OVERTIME RATES.
  - V INCLUDES AN AMOUNT PER HOUR WORKED OR PAID TO DISABILITY FUND.
  - W INCLUDED IN STRAIGHT-TIME HOURLY RATE WHICH IS NOT FACTORED IN THE OVERTIME RATES.
  - X RATE APPLIES TO THE FIRST 2 OVERTIME HOURS MONDAY THROUGH FRIDAY AND THE FIRST 8 HOURS WORKED ON SATURDAY. ALL OTHER TIME IS PAID AT THE SUNDAY AND HOLIDAY OVERTIME RATE.
  - Y INCLUDES AMOUNT WITHHELD FOR ADMINISTRATIVE DUES.

<https://www.dir.ca.gov/OPRL/2021-1/PWD/Determinations/Subtrades/LOS.html>

3/10/2021

GENERAL PREVAILING WAGE DETERMINATION - LOS-2021-1

- Z RATE APPLIES TO FIRST TWO DAILY OVERTIME HOURS WORKED; ALL OTHER OVERTIME IS PAID AT THE HOLIDAY OVERTIME HOURLY RATE.
  - AA RATE APPLIES TO THE FIRST 8 HOURS WORKED ON A SIXTH OR SEVENTH CONSECUTIVE DAY DURING ANY ONE CALENDAR WEEK UP TO 50 HOURS IN ANY ONE CALENDAR WEEK. ALL HOURS IN EXCESS OF 10 HOURS DAILY OR 50 HOURS WEEKLY ARE PAID AT THE HOLIDAY RATE. SATURDAY'S IN THE SAME WORK WEEK MAY BE WORKED AT STRAIGHT-TIME IF JOB IS SHUT DOWN DURING THE NORMAL WORKWEEK DUE TO INCLEMENT WEATHER.
  - AB RATE APPLIES TO WORK ON HOLIDAYS ONLY; SUNDAYS ARE PAID AT THE SATURDAY OVERTIME HOURLY RATE.
  - AC AN ADDITIONAL \$0.25 PER HOUR WILL BE ADDED TO THE BASIC HOURLY RATE WHEN PERFORMING PAPERHANGING WORK.
  - AD DOUBLE TIME SHALL BE PAID FOR ALL HOURS WORKED OVER 12 HOURS IN ANY ONE DAY.
  - AE ON REPAIR WAGE WORK ANY 8 HOURS IN A 24 HOUR PERIOD MONDAY THROUGH SUNDAY SHALL BE THE WORK DAY AND ANY 40 HOURS IN A WEEK SHALL BE THE WORK WEEK, PROVIDED THAT THE 40 HOURS IS WORKED IN 5 CONSECUTIVE DAYS (LEGAL HOLIDAYS WILL NOT BE COUNTED IN THE 5 CONSECUTIVE DAYS). FOR ALL WORK UNDER THIS CRAFT/CLASSIFICATION DOUBLE TIME SHALL BE PAID FOR ALL HOURS WORKED OVER 12 HOURS IN ANY ONE DAY.
  - AF RATE ONLY APPLIES TO WORK PERFORMED IN ANTELOPE VALLEY, WHICH IS HIGHWAY 5, SOUTH ON U.S. 5 TO HIGHWAY N2, EAST ON HIGHWAY N2 TO PALMDALE BLVD TO HIGHWAY 14; SOUTH TO HIGHWAY 18; EAST TO HIGHWAY 395. AN ADDITIONAL \$0.25 IS ADDED TO THE BASIC HOURLY RATE WHEN PERFORMING PAPERHANGING WORK.
  - AG RATE APPLIES AFTER 36 MONTHS OF EXPERIENCE
  - AH RATE APPLIES TO FIRST 12 MONTHS OF EXPERIENCE
  - AI RATE APPLIES AFTER 12 MONTHS THROUGH 36 MONTHS EXPERIENCE
  - AJ INCLUDES AN AMOUNT PER HOUR WORKED OR PAID FOR DUES CHECK OFF
  - AK SATURDAY IN THE SAME WORKWEEK MAY BE WORKED AT THE STRAIGHT-TIME HOURLY RATE IF IT IS NOT POSSIBLE TO COMPLETE FORTY HOURS OF WORK MONDAY THROUGH FRIDAY WHEN THE JOB IS SHUT DOWN DUE TO INCLEMENT WEATHER OR SIMILAR ACT OF GOD, OR BEYOND THE CONTRACTOR'S CONTROL.
  - AL RATE APPLIES TO THE FIRST 8 HOURS WORKED; ALL OTHER TIME IS PAID AT THE SUNDAY AND HOLIDAY OVERTIME HOURLY RATE.
  - AM THE RATIO OF PLASTER TENDERS TO PLASTERERS SHALL BE AS FOLLOWS: THERE SHALL BE A PLASTER TENDER ON THE JOBSITE WHENEVER THERE IS A PLASTERER PERFORMING WORK ON THE JOBSITE, EXCEPT ON SMALL PATCH WORK WHERE ONLY ONE PLASTERER IS PERFORMING WORK. FOR INSIDE BROWN COATINGS THERE SHALL BE 2 PLASTER TENDERS FOR UP TO EVERY 3 PLASTERERS. FOR INSIDE FINISH COATINGS THERE SHALL BE 1 PLASTER TENDER FOR UP TO EVERY 3 PLASTERERS. ON OUTSIDE FINISH AND BROWN COATINGS AND FOR ALL OTHER WORK, THERE SHALL BE 1 PLASTER TENDER FOR UP TO EVERY 2 PLASTERERS.
  - AN INCLUDES AN AMOUNT PER HOUR WORKED OR PAID FOR SUPPLEMENTAL DUES.
  - AO ALL WORK PERFORMED AFTER TWELVE (12) HOURS IN A DAY SHALL BE PAID AT THE SUNDAY/HOLIDAY RATE.
  - AP RATE APPLIES TO THE FIRST EIGHT HOURS ON SATURDAY. ALL OTHER TIME IS PAID AT THE SUNDAY AND HOLIDAY OVERTIME RATE. SATURDAY WORK MAY BE PAID AT THE STRAIGHT TIME RATE IF THE JOB IS SHUT DOWN DURING THE NORMAL WORK WEEK DUE TO INCLEMENT WEATHER.
  - AQ INCLUDES AN AMOUNT WITHHELD FOR ADMINISTRATIVE DUES WHICH IS NOT FACTORED INTO OVERTIME AND AN AMOUNT FOR VACATION WHICH IS FACTORED AT 1.5 TIMES FOR ALL OVERTIME.
  - AR INCLUDES AMOUNT FOR NATIONAL PENSION AND RETIREES X-MAS FUND.
  - AS AMOUNT INCLUDED IN BASIC HOURLY RATE AND FACTORED AT 1.5 TIMES FOR ALL OVERTIME.
  - AT INCLUDES AN AMOUNT FOR THE P.I.P.E. LABOR MANAGEMENT COOPERATION COMMITTEE AND THE CONTRACTOR EDUCATION & DEVELOPMENT FUND.
  - AU SATURDAYS IN THE SAME WORK WEEK MAY BE WORKED AT STRAIGHT-TIME IF JOB IS SHUT DOWN DURING THE NORMAL WORKWEEK DUE TO INCLEMENT WEATHER.
  - AV PIPE TRADESMEN SHALL NOT BE PERMITTED ON ANY JOB WITHOUT A JOURNEYMAN
  - AW INCLUDES AN AMOUNT WITHHELD FOR ADMINISTRATIVE DUES WHICH IS NOT FACTORED IN THE OVERTIME RATES.
  - AX TRADESMEN SHALL ONLY BE USED IF THE FIRST WORKER ON THE JOB IS A LANDSCAPE/IRRIGATION FITTER, SECOND WORKER MUST BE A LANDSCAPE/IRRIGATION FITTER OR APPRENTICE LANDSCAPE/IRRIGATION FITTER. THE 3RD AND 4TH MAY BE A TRADESMAN. THE 5TH MUST BE A LANDSCAPE/IRRIGATION FITTER AND THEREAFTER TRADESMEN WILL BE REFERRED ON A 50-50 BASIS, TO JOURNEYMAN OR APPRENTICE.
  - AY INCLUDES AN AMOUNT FOR 401A PLAN.

<https://www.dir.ca.gov/OPRL/2021-1/P/W/D/Determinations/Subtrades/LOS.html>

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- AZ INCLUDES AN AMOUNT FOR THE P.I.P.E. LABOR MANAGEMENT COOPERATION COMMITTEE TRUST FUND AND FOR PROMOTION FUND. BA SATURDAY MAY BE PAID AT STRAIGHT TIME IF THE WORK WEEK IS TUESDAY THROUGH SATURDAY.
- BB RATE APPLIES TO REMAINDER OF COUNTY.
- BC INCLUDES AN AMOUNT FOR SUPPLEMENTAL PENSION FUND.
- BD RATE APPLIES TO LOS ANGELES CITY LIMITS AND TWENTY-FIVE (25) MILES BEYOND CITY LIMITS OF LOS ANGELES.
- BE AMOUNT IS FOR INDUSTRY PROMOTION FUND AND P.I.P.E. FUND.
- BF RATE APPLIES TO THE FIRST 4 DAILY OVERTIME HOURS AND THE FIRST 10 HOURS ON SATURDAY; ALL OTHER TIME IS PAID AT THE SUNDAY AND HOLIDAY OVERTIME HOURLY RATE.
- BG INCLUDE AMOUNTS FOR DUES CHECK OFF AND VACATION/HOLIDAY, WHICH ARE NOT FACTORED INTO OVERTIME.
- BH INCLUDES AN AMOUNT PER HOUR WORKED FOR ANNUITY TRUST FUND.
- BI INCLUDED IN BASIC HOURLY RATE. VACATION IS NOT FACTORED INTO OVERTIME.
- BJ INCLUDE AMOUNTS FOR ADMINISTRATIVE FUND, COMPLIANCE FUND, INDUSTRY FUND, AND RESEARCH AND EDUCATION TRUST FUND.
- BK RATE APPLIES TO THE FIRST 2 DAILY OVERTIME HOURS AND THE FIRST 10 HOURS ON SATURDAY; SUNDAY AND HOLIDAY OVERTIME HOURLY RATE WILL BE PAID AFTER 10 HOURS PER DAY AND ALL HOURS WORKED OVER 55 HOURS PER WEEK.
- BL APPLIES TO THAT PORTION OF THE COUNTY SOUTH OF A STRAIGHT LINE DRAWN BETWEEN GORMAN AND BIG PINES.
- BM PURSUANT TO LABOR CODE SECTIONS 1773.1 AND 1773.8, THE AMOUNT PAID FOR THIS EMPLOYER PAYMENT MAY VARY RESULTING IN A LOWER TAXABLE BASIC HOURLY WAGE RATE, BUT THE TOTAL HOURLY RATES FOR STRAIGHT TIME AND OVERTIME MAY NOT BE LESS THAN THE GENERAL PREVAILING RATE OF PER DIEM WAGES.
- BN RATE APPLIES FOR THE FIRST 4 OVERTIME HOURS MONDAY THROUGH FRIDAY AND THE FIRST 12 HOURS WORKED ON SATURDAY. ALL OTHER TIME IS PAID AT THE SUNDAY/HOLIDAY RATE. SATURDAYS IN THE SAME WORKWEEK MAY BE WORKED AT STRAIGHT-TIME IF JOB IS SHUT DOWN DURING THE NORMAL WORKWEEK DUE TO INCLEMENT WEATHER.
- BO APPLIES TO THAT PORTION OF THE COUNTY NORTH OF A STRAIGHT LINE DRAWN BETWEEN GORMAN AND BIG PINES INCLUDING THE CITIES OF LANCASTER AND PALMDALE.
- BP INCLUDES AMOUNTS FOR LOCAL PENSION, NATIONAL PENSION PLAN, 401(A) PLAN, RETIREE'S SUPPLEMENTAL HEALTH PLAN PURSUANT TO LABOR CODE SECTIONS 1773.1 AND 1773.8, THE AMOUNT PAID FOR THIS EMPLOYER PAYMENT MAY VARY RESULTING IN A LOWER TAXABLE BASIC HOURLY WAGE RATE, BUT THE TOTAL HOURLY RATES FOR STRAIGHT TIME AND OVERTIME MAY NOT BE LESS THAN THE GENERAL PREVAILING RATE OF PER DIEM WAGES.
- BQ RATE APPLIES TO FIRST 4 DAILY OVERTIME HOURS AND THE FIRST 12 HOURS ON SATURDAY AND SUNDAY. ALL OTHER OVERTIME HOURS IS AT DOUBLE TIME RATE.
- BR RATE APPLIES TO THE FIRST 8 HOURS WORKED ON A SIXTH OR SEVENTH CONSECUTIVE DAY DURING ANY ONE CALENDAR WEEK UP TO 50 HOURS IN ANY ONE CALENDAR WEEK. ALL OTHER TIME IS PAID AT THE HOLIDAY RATE.
- RECOGNIZED HOLIDAYS: HOLIDAYS UPON WHICH THE GENERAL PREVAILING HOURLY WAGE RATE FOR HOLIDAY WORK SHALL BE PAID, SHALL BE ALL HOLIDAYS IN THE COLLECTIVE BARGAINING AGREEMENT; APPLICABLE TO THE PARTICULAR CRAFT, CLASSIFICATION, OR TYPE OF WORKER EMPLOYED ON THE PROJECT, WHICH IS ON FILE WITH THE DIRECTOR OF INDUSTRIAL RELATIONS. IF THE PREVAILING RATE IS NOT BASED ON A COLLECTIVELY BARGAINED RATE, THE HOLIDAYS UPON WHICH THE PREVAILING RATE SHALL BE PAID SHALL BE AS PROVIDED IN SECTION 6700 OF THE GOVERNMENT CODE. YOU MAY OBTAIN THE HOLIDAY PROVISIONS FOR THE CURRENT DETERMINATIONS ON THE INTERNET AT [HTTP://WWW.DIR.CA.GOV/OPRLDPreWageDetermination.htm](http://www.dir.ca.gov/OPRLDPreWageDetermination.htm). HOLIDAY PROVISIONS FOR THE CURRENT OR SUPERSEDED DETERMINATIONS MAY BE OBTAINED BY CONTACTING THE OFFICE OF THE DIRECTOR - RESEARCH UNIT AT (415) 703-4774.
- TRAVEL AND/OR SUBSISTENCE: IN ACCORDANCE WITH LABOR CODE SECTIONS 1773.1 AND 1773.9, CONTRACTORS SHALL MAKE TRAVEL AND/OR SUBSISTENCE PAYMENTS TO EACH WORKER TO EXECUTE THE WORK. YOU MAY OBTAIN THE TRAVEL AND/OR SUBSISTENCE PROVISIONS FOR THE CURRENT DETERMINATIONS ON THE INTERNET AT [HTTP://WWW.DIR.CA.GOV/OPRLDPreWageDetermination.htm](http://www.dir.ca.gov/OPRLDPreWageDetermination.htm). TRAVEL AND/OR SUBSISTENCE REQUIREMENTS FOR CURRENT OR SUPERSEDED DETERMINATIONS MAY BE OBTAINED BY CONTACTING THE OFFICE OF THE DIRECTOR - RESEARCH UNIT AT (415) 703-4774.

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**GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS**

LOCALITY: LOS ANGELES COUNTY

DETERMINATION: LOS-2021-1

PREDETERMINED INCREASES

CRAFT	CLASSIFICATION	CRAFT FOOTNOTE	ISSUE DATE	EXPIRATION DATE	DATE OF NEXT INCREASE	AMOUNT OF INCREASE	INCREASE FOOTNOTE	DATE OF NEXT INCREASE	AMOUNT OF INCREASE	INCREASE FOOTNOTE	DATE OF NEXT INCREASE	AMOUNT OF INCREASE	INCREASE FOOTNOTE	DATE OF NEXT INCREASE
					1	1	1	2	2	2	3	3	3	4
CARPET, LIMOLEUM,	RESILIENT TILE LAYER		02/22/2021	12/31/2021**	01/01/2022	\$1,450	A							
CARPET, LIMOLEUM,	MATERIAL HANDLER	B	02/22/2021	12/31/2021**	01/01/2022	\$1,250	C							
DRYWALL FINISHER		D	02/22/2021	09/30/2021**	10/01/2021	\$2,500	E							
DRYWALL FINISHER			02/22/2021	09/30/2021**	10/01/2021	\$2,500	E							
ELECTRICIAN;	SOUND INSTALLER		02/22/2021	12/26/2021**	12/27/2021	\$3,050	E							
ELECTRICIAN;	INSIDE WIREMAN, RADIO MONITOR TECHNICIAN		02/22/2021	07/25/2021**	07/26/2021	\$2,050	E		01/31/2022	\$2,100	E			
ELECTRICIAN;	CABLE SPLICER- WELDER		02/22/2021	07/25/2021**	07/26/2021	\$2,050	E		01/31/2022	\$2,100	E			
ELECTRICIAN;	TUNNEL WIREMAN		02/22/2021	07/25/2021**	07/26/2021	\$2,050	E		01/31/2022	\$2,100	E			
ELECTRICIAN;	TUNNEL CABLE SPICER		02/22/2021	07/25/2021**	07/26/2021	\$2,050	E		01/31/2022	\$2,100	E			
ELECTRICIAN;	TRANSPORTATION SYSTEMS ELECTRICIAN		02/22/2021	07/25/2021**	07/26/2021	\$2,050	E		01/31/2022	\$2,100	E			
ELECTRICIAN;	TRANSPORTATION SYSTEMS ELECTRICIAN (CABLE SPlicing, WELDING, AND NETA TESTING)		02/22/2021	07/25/2021**	07/26/2021	\$2,050	E		01/31/2022	\$2,100	E			
ELECTRICIAN;	TRANSPORTATION SYSTEMS TECHNICIAN	E	02/22/2021	07/25/2021**	07/26/2021	\$1,540	E		01/31/2022	\$1,580	E			
FIELD SURVEYOR:	CHIEF OF PARTY (018, 167-010)	G	02/22/2021	09/30/2021**	10/01/2021	\$2,750	E							
FIELD SURVEYOR:	INSTRUMENTMAN (018, 167-034)	G	02/22/2021	09/30/2021**	10/01/2021	\$2,450	E							
FIELD SURVEYOR:	CHAINMAN/RODMAN (869, 567-010)	G	02/22/2021	09/30/2021**	10/01/2021	\$2,450	E							
GLAZIER			08/22/2020	05/31/2021**	06/01/2021	\$3,030	H		06/01/2022	\$4,020	I			
MARBLE FINISHER			08/22/2020	05/31/2021**	06/01/2021	\$1,230	E							
PAINTER:	PAINTER, LEAD ABATEMENT	J	02/22/2021	06/30/2021**	07/01/2021	\$1,000	K		07/01/2022	\$,800	E			
PAINTER:	PAINTER, LEAD ABATEMENT	L	02/22/2021	06/30/2021**	07/01/2021	\$1,000	K		07/01/2022	\$,800	E			

CRAFT	CLASSIFICATION	CRAFT FOOTNOTE	ISSUE DATE	EXPIRATION DATE	DATE OF NEXT INCREASE	AMOUNT OF INCREASE	INCREASE FOOTNOTE	DATE OF NEXT INCREASE	AMOUNT OF INCREASE	INCREASE FOOTNOTE	DATE OF NEXT INCREASE	AMOUNT OF INCREASE	INCREASE FOOTNOTE	DATE OF NEXT INCREASE	AMOUNT OF INCREASE	INCREASE FOOTNOTE
					1	1	1	2	2	2	3	3	3	4	4	4
PAINTER:	INDUSTRIAL PAINTER	J	02/22/2021	06/30/2021**	07/01/2021	\$1,000	K	07/01/2022	\$,800	E						
PLASTERER			08/22/2020	08/03/2021**	08/04/2021	\$2,200	E									
PLASTER TENDER		M	08/22/2020	08/03/2021**	08/04/2021	\$2,200	E									
PLASTER TENDER	PLASTER CLEAN-UP LABORER		08/22/2020	08/03/2021**	08/04/2021	\$2,200	E									
PLUMBER:	PLUMBER, INDUSTRIAL AND GENERAL PIPEFITTER		08/22/2020	08/31/2021**	09/01/2021	\$2,260	E	09/01/2022	\$2,260	E	09/01/2023	\$2,350	E	09/01/2		
PLUMBER:	SEWER AND STORM DRAIN PIPELAYER		08/22/2020	08/31/2021**	09/01/2021	\$2,260	E	09/01/2022	\$2,260	E	09/01/2023	\$2,350	E	09/01/2		
PLUMBER:	SEWER AND STORM DRAIN PIPE TRADESMAN	N	08/22/2020	08/31/2021**	09/01/2021	\$900	E	09/01/2022	\$900	E	09/01/2023	\$940	E	09/01/2		
PLUMBER:	LANDSCAPE/IRRIGATION FITTER		08/22/2020	08/31/2021**	09/01/2021	\$2,260	E	09/01/2022	\$2,260	E	09/01/2023	\$2,350	E	09/01/2		
PLUMBER:	LANDSCAPE/IRRIGATION TRADESMAN	O	08/22/2020	08/31/2021**	09/01/2021	\$590	E	09/01/2022	\$590	E	09/01/2023	\$610	E	09/01/2		
PLUMBER:	REFRIGERATION SERVICE HVACR		08/22/2020	08/29/2021**	08/30/2021	\$2,150	P	08/05/2022	\$2,150	P	09/04/2023	\$2,150	E			
ROOFER			02/22/2021	07/31/2021**	08/01/2021	\$2,000	Q	08/01/2022	\$2,000	R						
ROOFER	PITCH WORK		02/22/2021	07/31/2021**	08/01/2021	\$2,000	Q	08/01/2022	\$2,000	R						
ROOFER	PREPARER		02/22/2021	07/31/2021**	08/01/2021	\$2,000	Q	08/01/2022	\$2,000	R						
TERRAZZO FINISHER			08/22/2020	08/31/2021**	09/01/2021	\$1,680	E									
TERRAZZO WORKER			08/22/2020	08/31/2021**	09/01/2021	\$1,980	E									
TILE FINISHER			08/22/2020	05/31/2021**	06/01/2021	\$1,080	E									
TILE LAYER			08/22/2020	05/31/2021**	06/01/2021	\$1,510	E									

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**FOOTNOTES**

- \*\* THE RATE TO BE PAID FOR WORK PERFORMED AFTER THIS DATE HAS BEEN DETERMINED. IF WORK WILL EXTEND PAST THIS DATE, THE NEW RATE MUST BE PAID AND SHOULD BE INCORPORATED IN CONTRACTS ENTERED INTO NOW. CONTACT THE OFFICE OF THE DIRECTOR - RESEARCH UNIT FOR SPECIFIC RATES AT (415) 703-4774.
- A \$1.20 TO THE BASIC HOURLY RATE, \$0.15 TO HEALTH & WELFARE AND \$0.10 TO VACATION/HOLIDAY.
- B A MATERIAL HANDLER MAY BE UTILIZED IN RATIO OF ONE (1) MATERIAL HANDLER WITH ANY FIVE (5) JOURNEYMEN ON ANY GIVEN PROJECT.
- C \$1.00 TO THE BASIC HOURLY RATE, \$0.15 TO HEALTH & WELFARE AND \$0.10 TO VACATION/HOLIDAY.
- D RATE ONLY APPLIES TO WORK PERFORMED IN ANTELOPE VALLEY WHICH IS HIGHWAY 5, SOUTH ON U.S. 5 TO HIGHWAY N2, EAST ON HIGHWAY N2 TO PALMDALE BLVD TO HIGHWAY 14; SOUTH TO HIGHWAY 18; EAST TO HIGHWAY 395.
- E THE PREDETERMINED INCREASE SHOWN IS TO BE ALLOCATED TO WAGES AND/OR EMPLOYER PAYMENTS. PLEASE CONTACT THE OFFICE OF THE DIRECTOR - RESEARCH UNIT AT (415) 703-4774 WHEN THE PREDETERMINED INCREASE BECOMES DUE TO CONFIRM THE DISTRIBUTION. PLEASE ALSO EXAMINE THE IMPORTANT NOTICES TO SEE IF ANY MODIFICATIONS HAVE BEEN ISSUED, AS THERE MAY BE REDUCTIONS TO PREDETERMINED INCREASES.
- F THE MAXIMUM ALLOWABLE RATIO IS ONE TRANSPORTATION SYSTEMS TECHNICIAN TO ONE JOURNEYMAN ON EACH JOB.
- G DICTIONARY OF OCCUPATIONAL TITLES, FOURTH EDITION, 1977, U.S. DEPARTMENT OF LABOR.

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GENERAL PREVAILING WAGE DETERMINATION - LOS-2021-1

- H \$0.25 TO HEALTH & WELFARE, \$0.40 TO PENSION, \$0.03 TO OTHER AND \$2.35 TO WAGES AND/OR FRINGES.
- I \$0.25 TO HEALTH & WELFARE, \$1.00 TO PENSION, \$0.02 TO OTHER AND \$2.75 TO WAGES AND/OR FRINGES.
- J AN ADDITIONAL \$0.25 PER HOUR WILL BE ADDED TO THE BASIC HOURLY RATE WHEN PERFORMING PAPERHANGING WORK.
- K \$1.00 TO THE BASIC HOURLY RATE.
- L RATE ONLY APPLIES TO WORK PERFORMED IN ANTELOPE VALLEY, WHICH IS HIGHWAY 5, SOUTH ON U.S. 5 TO HIGHWAY N2; EAST ON HIGHWAY N2 TO PALMDALE BLVD TO HIGHWAY 14; SOUTH TO HIGHWAY 18; EAST TO HIGHWAY 395. AN ADDITIONAL \$0.25 IS ADDED TO THE BASIC HOURLY RATE WHEN PERFORMING PAPERHANGING WORK.
- M THE RATIO OF PLASTER TENDERS TO PLASTERERS SHALL BE AS FOLLOWS: THERE SHALL BE A PLASTER TENDER ON THE JOBSITE WHENEVER THERE IS A PLASTERER PERFORMING WORK ON THE JOBSITE, EXCEPT ON SMALL PATCH WORK WHERE ONLY ONE PLASTERER IS PERFORMING WORK. FOR INSIDE BROWN COATINGS THERE SHALL BE 2 PLASTER TENDERS FOR UP TO EVERY 3 PLASTERERS. FOR INSIDE FINISH COATINGS THERE SHALL BE 1 PLASTER TENDER FOR UP TO EVERY 3 PLASTERERS. ON OUTSIDE FINISH AND BROWN COATINGS AND FOR ALL OTHER WORK, THERE SHALL BE 1 PLASTER TENDER FOR UP TO EVERY 2 PLASTERERS.
- N PIPE TRADESMEN SHALL NOT BE PERMITTED ON ANY JOB WITHOUT A JOURNEYMAN.
- O TRADESMEN SHALL ONLY BE USED IF THE FIRST WORKER ON THE JOB IS A LANDSCAPE/IRRIGATION FITTER. SECOND WORKER MUST BE A LANDSCAPE/IRRIGATION FITTER OR APPRENTICE LANDSCAPE/IRRIGATION FITTER. THE 3RD AND 4TH MAY BE A TRADESMAN. THE 5TH MUST BE A LANDSCAPE/IRRIGATION FITTER AND THEREAFTER TRADESMEN WILL BE REFERRED ON A 50-50 BASIS, TO JOURNEYMAN OR APPRENTICE.
- P \$1.90 TO WAGES AND/OR FRINGES AND \$0.25 TO TRAINING
- Q \$1.30 TO BASIC HOURLY RATE AND \$0.70 TO PENSION
- R \$1.40 TO BASIC HOURLY RATE AND \$0.60 TO PENSION

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**GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS**

LOCALITY: LOS ANGELES COUNTY

DETERMINATION: LOS-2021-1

CRAFT	CLASSIFICATION	CRAFT FOOTNOTE	ISSUE DATE	EXPIRATION DATE	BASIC HOURLY RATE	BASIC HOURLY RATE FOOTNOTE	HEALTH AND WELFARE	HEALTH AND WELFARE FOOTNOTE	PENSION	PENSION FOOTNOTE	VACATION/HOLIDAY	VACATION/HOLIDAY FOOTNOTE	TRAINING FOOTNO
#CARPET, LINOLEUM,	RESILIENT TILE LAYER - SECOND SHIFT		02/22/2021	12/31/2021	\$46.500	A	\$5.630		\$5.550		\$2.220		\$0.630
CARPET, LINOLEUM,	MATERIAL HANDLER - SECOND SHIFT	B	02/22/2021	12/31/2021	\$16.800	A	\$5.630		\$1.940		\$0.720		\$0.630
#ELECTRICIAN:	SOUND INSTALLER 2ND SHIFT		02/22/2021	12/26/2021	\$48.700		\$8.560		\$5.120	C	\$0.000		\$0.650
#ELECTRICIAN:	SOUND INSTALLER 3RD SHIFT		02/22/2021	12/26/2021	\$54.550		\$8.560		\$5.120	C	\$0.000		\$0.650
#ELECTRICIAN:	INSIDE WIREMAN, 2ND SHIFT		02/22/2021	07/25/2021	\$60.410		\$13.190		\$14.820	H	\$0.000		\$0.760
#ELECTRICIAN:	INSIDE WIREMAN, 3RD SHIFT		02/22/2021	07/25/2021	\$67.670		\$13.190		\$14.820	H	\$0.000		\$0.760
#ELECTRICIAN:	CABLE SPLICER-WELDER, 2ND SHIFT		02/22/2021	07/25/2021	\$63.440		\$13.190		\$14.820	H	\$0.000		\$0.760
#ELECTRICIAN:	CABLE SPLICER-WELDER, 3RD SHIFT		02/22/2021	07/25/2021	\$71.060		\$13.190		\$14.820	H	\$0.000		\$0.760
#ELECTRICIAN:	TUNNEL WIREMAN SECOND SHIFT		02/22/2021	07/25/2021	\$66.450		\$13.190		\$14.820	H	\$0.000		\$0.760
#ELECTRICIAN:	TUNNEL WIREMAN THIRD SHIFT		02/22/2021	07/25/2021	\$74.440		\$13.190		\$14.820	H	\$0.000		\$0.760
#ELECTRICIAN:	TUNNEL CABLE SPICER SECOND SHIFT		02/22/2021	07/25/2021	\$69.770		\$13.190		\$14.820	H	\$0.000		\$0.760
#ELECTRICIAN:	TUNNEL CABLE SPICER THIRD SHIFT		02/22/2021	07/25/2021	\$78.160		\$13.190		\$14.820	H	\$0.000		\$0.760
#ELECTRICIAN:	TRANSPORTATION SYSTEMS ELECTRICIAN (SECOND SHIFT)		02/22/2021	07/25/2021	\$60.170		\$13.140		\$15.070	H	\$0.000		\$0.760
#ELECTRICIAN:	TRANSPORTATION SYSTEMS ELECTRICIAN (THIRD SHIFT)		02/22/2021	07/25/2021	\$67.410		\$13.140		\$15.070	H	\$0.000		\$0.760
#ELECTRICIAN:	TRANSPORTATION SYSTEMS ELECTRICIAN (CABLE SPlicing, WELDING, AND NETA TESTING) 2ND SHIFT		02/22/2021	07/25/2021	\$63.190		\$13.140		\$15.070	H	\$0.000		\$0.760



CRAFT	CLASSIFICATION	CRAFT FOOTNOTE	ISSUE DATE	EXPIRATION DATE	BASIC HOURLY RATE	BASIC HOURLY RATE FOOTNOTE	HEALTH AND WELFARE	HEALTH AND WELFARE FOOTNOTE	PENSION	PENSION FOOTNOTE	VACATION/HOLIDAY	VACATION/HOLIDAY FOOTNOTE	TRAINING	TRAINING FOOTNO
#ELECTRICIAN:	TRANSPORTATION SYSTEMS ELECTRICIAN (CABLE SPLICING, WELDING, AND NETA TESTING) 3RD SHIFT		02/22/2021	07/25/2021**	\$70.790		\$13,140		\$15,070	H	\$0,000	I	\$0,760	
ELECTRICIAN:	TRANSPORTATION SYSTEMS TECHNICIAN (SECOND SHIFT)	L	02/22/2021	07/25/2021**	\$45,140		\$13,140		\$15,070	H	\$0,000	I	\$0,760	
ELECTRICIAN:	TRANSPORTATION SYSTEMS TECHNICIAN (THIRD SHIFT)	L	02/22/2021	07/25/2021**	\$50,560		\$13,140		\$15,070	H	\$0,000	I	\$0,760	
#PAINTER:	PAINTER, LEAD ABATEMENT (2ND SHIFT)	M	02/22/2021	06/30/2021**	\$37,260	N	\$9,000		\$4,940		\$2,550		\$0,750	
#PAINTER:	PAINTER, LEAD ABATEMENT (2ND SHIFT)	P	02/22/2021	06/30/2021**	\$32,270	N	\$9,000		\$4,940		\$2,410		\$0,750	
#PAINTER:	INDUSTRIAL PAINTER (2ND SHIFT)	M	02/22/2021	06/30/2021**	\$39,960	N	\$9,000		\$4,940		\$2,860		\$0,850	
#PLUMBER:	PLUMBER, INDUSTRIAL AND GENERAL PIPEFITTER (2ND SHIFT)		08/22/2020	08/31/2021**	\$59,630	Q	\$8,910		\$13,300	R	\$0,000	S	\$2,500	
#PLUMBER:	SEWER AND STORM DRAIN PIPELAYER (2ND SHIFT)		08/22/2020	08/31/2021**	\$45,120	Q	\$8,800		\$10,450	R	\$0,000	S	\$2,230	
PLUMBER:	SEWER AND STORM DRAIN PIPE TRADESMAN (2ND SHIFT)	W	08/22/2020	08/31/2021**	\$22,430	X	\$9,050		\$0,380		\$0,000		\$1,360	
#PLUMBER:	LANDSCAPE/IRRIGATION FITTER SECOND SHIFT		08/22/2020	08/31/2021**	\$40,190	Y	\$8,910		\$13,300	R	\$0,000	S	\$1,890	
PLUMBER:	LANDSCAPE/IRRIGATION TRADESMAN SECOND SHIFT	Z	08/22/2020	08/31/2021**	\$17,660	Y	\$3,000		\$1,160	R	\$0,000		\$0,100	
#PLUMBER:	REFRIGERATION SERVICE HVAC/R- 2ND SHIFT		08/22/2020	08/29/2021**	\$57,280	A	\$10,620		\$10,340	AA	\$0,000	I	\$2,250	
#PLUMBER:	FIRE SPRINKLER FITTER (PROTECTION AND CONTROL SYSTEMS, OVERHEAD AND UNDERGROUND)- 2ND SHIFT	AE	02/22/2021	08/31/2021*	\$66,020		\$10,550		\$17,000		\$0,000	I	\$1,600	

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## FOOTNOTES

\* EFFECTIVE UNTIL SUPERSEDED BY A NEW DETERMINATION ISSUED BY THE DIRECTOR OF INDUSTRIAL RELATIONS. CONTACT THE OFFICE OF THE DIRECTOR - RESEARCH UNIT AT (415) 703-4774 FOR THE NEW RATES AFTER THE EXPIRATION DATE IF NO SUBSEQUENT DETERMINATION IS ISSUED.

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GENERAL PREVAILING WAGE DETERMINATION - LOS-2021-1

\*\* THE RATE TO BE PAID FOR WORK PERFORMED AFTER THIS DATE HAS BEEN DETERMINED. IF WORK WILL EXTEND PAST THIS DATE, THE NEW RATE MUST BE PAID AND SHOULD BE INCORPORATED IN CONTRACTS ENTERED INTO NOW. CONTACT THE OFFICE OF THE DIRECTOR - RESEARCH UNIT FOR SPECIFIC RATES AT (415) 703-4774.

# INDICATES AN APPRENTICEABLE CRAFT. THE CURRENT APPRENTICE WAGE RATES ARE AVAILABLE ON THE INTERNET @ [HTTP://WWW.DIR.CA.GOV/OPRLP/WAPPWAGEIP/WAPPWAGESTART.ASP](http://www.dir.ca.gov/OPRLP/WAPPWAGEIP/WAPPWAGESTART.ASP)

& THE BASIC HOURLY RATE AND EMPLOYER PAYMENTS ARE NOT TAKEN FROM A COLLECTIVE BARGAINING AGREEMENT FOR THIS CRAFT OR CLASSIFICATION.

A INCLUDES AMOUNT WITHHELD FOR DUES CHECK OFF.

B A MATERIAL HANDLER MAY BE UTILIZED IN RATIO OF ONE (1) MATERIAL HANDLER WITH ANY FIVE (5) JOURNEYMEN ON ANY GIVEN PROJECT.

C IN ADDITION, AN AMOUNT EQUAL TO 3% OF THE BASIC HOURLY RATE IS ADDED TO THE TOTAL HOURLY RATE AND OVERTIME HOURLY RATES FOR THE NATIONAL EMPLOYEES BENEFIT BOARD.

D INCLUDES AN AMOUNT FOR THE NATIONAL LABOR-MANAGEMENT COOPERATION FUND AND THE ADMINISTRATIVE MAINTENANCE FUND.

E RATE APPLIES TO THE FIRST 4 DAILY OVERTIME HOURS; ALL OTHER TIME IS PAID AT THE SUNDAY AND HOLIDAY NON-SHIFT DIFFERENTIAL OVERTIME HOURLY RATE.

F DISREGARD THIS RATE. FOR THE FIRST 12 HOURS OF WORK PERFORMED ON SATURDAY, USE THE SATURDAY NON-SHIFT DIFFERENTIAL RATE FOR THIS CLASSIFICATION AS PUBLISHED IN THE DIRECTOR'S GENERAL PREVAILING WAGE DETERMINATIONS.

G DISREGARD THIS RATE. USE THE SUNDAY AND HOLIDAY NON-SHIFT DIFFERENTIAL RATE FOR THIS CLASSIFICATION AS PUBLISHED IN THE DIRECTOR'S GENERAL PREVAILING WAGE DETERMINATIONS.

H IN ADDITION, AN AMOUNT EQUAL TO 3% OF THE BASIC HOURLY RATE IS ADDED TO THE TOTAL HOURLY RATE AND OVERTIME HOURLY RATES FOR THE NATIONAL EMPLOYEES BENEFIT BOARD. PURSUANT TO LABOR CODE SECTIONS 1773.7 AND 1773.8, THE AMOUNT PAID FOR THIS EMPLOYER PAYMENT MAY VARY RESULTING IN A LOWER TAXABLE BASIC HOURLY WAGE RATE, BUT THE TOTAL HOURLY RATES FOR STRAIGHT TIME AND OVERTIME MAY NOT BE LESS THAN THE GENERAL PREVAILING RATE OF PER DIEM WAGES.

I INCLUDED IN STRAIGHT-TIME HOURLY RATE.

J RATE APPLIES TO THE FIRST 2 DAILY OVERTIME HOURS. FOR ALL HOURS AFTER THE FIRST 2 DAILY OVERTIME HOURS, USE THE SUNDAY AND HOLIDAY NON-SHIFT DIFFERENTIAL RATE.

K DISREGARD THIS RATE. FOR THE FIRST 10 HOURS OF WORK ON SATURDAY, USE THE SATURDAY NON-SHIFT DIFFERENTIAL RATE. FOR ALL HOURS AFTER THE FIRST 10 HOURS WORKED ON SATURDAY, USE THE SUNDAY AND HOLIDAY NON-SHIFT DIFFERENTIAL RATE.

L THE MAXIMUM ALLOWABLE RATIO IS ONE TRANSPORTATION SYSTEMS TECHNICIAN TO ONE JOURNEYMAN ON EACH JOB.

M AN ADDITIONAL \$0.25 PER HOUR WILL BE ADDED TO THE BASIC HOURLY RATE WHEN PERFORMING PAPERHANGING WORK.

N INCLUDES AMOUNT WITHHELD FOR WORKING DUES.

O DOUBLE TIME SHALL BE PAID FOR ALL HOURS WORKED OVER 12 HOURS IN ANY ONE DAY.

P RATE ONLY APPLIES TO WORK PERFORMED IN ANTELOPE VALLEY, WHICH IS HIGHWAY 5, SOUTH ON U.S. 5 TO HIGHWAY N2; EAST ON HIGHWAY N2 TO PALMDALE BLVD TO HIGHWAY 14; SOUTH TO HIGHWAY 18; EAST TO HIGHWAY 395. AN ADDITIONAL \$0.25 IS ADDED TO THE BASIC HOURLY RATE WHEN PERFORMING PAPERHANGING WORK.

Q INCLUDES AN AMOUNT WITHHELD FOR ADMINISTRATIVE DUES WHICH IS NOT FACTORED INTO OVERTIME AND AN AMOUNT FOR VACATION WHICH IS FACTORED AT 1.5 TIMES FOR ALL OVERTIME.

R INCLUDES AMOUNT FOR NATIONAL PENSION AND RETIREES X-MAS FUND.

S AMOUNT INCLUDED IN BASIC HOURLY RATE AND FACTORED AT 1.5 TIMES FOR ALL OVERTIME.

T INCLUDES AN AMOUNT FOR THE P.I.P.E. LABOR MANAGEMENT COOPERATION COMMITTEE AND THE CONTRACTOR EDUCATION & DEVELOPMENT FUND.

U RATE APPLIES TO THE FIRST 2 DAILY OVERTIME HOURS AND THE FIRST 10 HOURS ON SATURDAY; ALL OTHER TIME IS PAID AT THE SUNDAY AND HOLIDAY OVERTIME HOURLY RATE.

V SATURDAYS IN THE SAME WORK WEEK MAY BE WORKED AT STRAIGHT-TIME IF JOB IS SHUT DOWN DURING THE NORMAL WORKWEEK DUE TO INCLEMENT WEATHER.

W PIPE TRADESMEN SHALL NOT BE PERMITTED ON ANY JOB WITHOUT A JOURNEYMAN

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GENERAL PREVAILING WAGE DETERMINATION - LOS-2021-1

- X INCLUDES AN AMOUNT WITHHELD FOR ADMINISTRATIVE DUES WHICH IS NOT FACTORED IN THE OVERTIME RATES.
- Y INCLUDES AMOUNT WITHHELD FOR ADMINISTRATIVE DUES.
- Z TRADESMEN SHALL ONLY BE USED IF THE FIRST WORKER ON THE JOB IS A LANDSCAPE/IRRIGATION FITTER, SECOND WORKER MUST BE A LANDSCAPE/IRRIGATION FITTER OR APPRENTICE LANDSCAPE/IRRIGATION FITTER, THE 3RD AND 4TH MAY BE A TRADESMAN, THE 5TH MUST BE A LANDSCAPE/IRRIGATION FITTER AND THEREAFTER TRADESMEN WILL BE REFERRED ON A 50-50 BASIS, TO JOURNEYMAN OR APPRENTICE.
- AA INCLUDES AN AMOUNT FOR 401A PLAN.
- AB INCLUDES AN AMOUNT FOR THE P.I.P.E. LABOR MANAGEMENT COOPERATION COMMITTEE TRUST FUND AND FOR PROMOTION FUND.
- AC SATURDAY MAY BE PAID AT STRAIGHT TIME IF THE WORK WEEK IS TUESDAY THROUGH SATURDAY.
- AD RATE APPLIES TO WORK ON HOLIDAYS ONLY; SUNDAYS ARE PAID AT THE SATURDAY OVERTIME HOURLY RATE.
- AE RATE APPLIES TO LOS ANGELES CITY LIMITS AND TWENTY-FIVE (25) MILES BEYOND CITY LIMITS OF LOS ANGELES.
- AF AMOUNT IS FOR INDUSTRY PROMOTION FUND AND P.I.P.E. FUND.
- AG RATE APPLIES TO THE FIRST 4 DAILY OVERTIME HOURS AND THE FIRST 10 HOURS ON SATURDAY; ALL OTHER TIME IS PAID AT THE SUNDAY AND HOLIDAY OVERTIME HOURLY RATE.

RECOGNIZED HOLIDAYS: HOLIDAYS UPON WHICH THE GENERAL PREVAILING HOURLY WAGE RATE FOR HOLIDAY WORK SHALL BE PAID, SHALL BE ALL HOLIDAYS IN THE COLLECTIVE BARGAINING AGREEMENT, APPLICABLE TO THE PARTICULAR CRAFT, CLASSIFICATION, OR TYPE OF WORKER EMPLOYED ON THE PROJECT, WHICH IS ON FILE WITH THE DIRECTOR OF INDUSTRIAL RELATIONS. IF THE PREVAILING RATE IS NOT BASED ON A COLLECTIVELY BARGAINED RATE, THE HOLIDAYS UPON WHICH THE PREVAILING RATE SHALL BE PAID SHALL BE AS PROVIDED IN SECTION 6700 OF THE GOVERNMENT CODE. YOU MAY OBTAIN THE HOLIDAY PROVISIONS FOR THE CURRENT DETERMINATIONS ON THE INTERNET AT [HTTP://WWW.DIR.CA.GOV/OPRLDP/WageDetermination.htm](http://www.dir.ca.gov/OPRLDP/WageDetermination.htm). HOLIDAY PROVISIONS FOR THE CURRENT OR SUPERSEDED DETERMINATIONS MAY BE OBTAINED BY CONTACTING THE OFFICE OF THE DIRECTOR - RESEARCH UNIT AT (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE: IN ACCORDANCE WITH LABOR CODE SECTIONS 1773.1 AND 1773.9, CONTRACTORS SHALL MAKE TRAVEL AND/OR SUBSISTENCE PAYMENTS TO EACH WORKER TO EXECUTE THE WORK. YOU MAY OBTAIN THE TRAVEL AND/OR SUBSISTENCE PROVISIONS FOR THE CURRENT DETERMINATIONS ON THE INTERNET AT [HTTP://WWW.DIR.CA.GOV/OPRLDP/WageDetermination.htm](http://www.dir.ca.gov/OPRLDP/WageDetermination.htm). TRAVEL AND/OR SUBSISTENCE REQUIREMENTS FOR CURRENT OR SUPERSEDED DETERMINATIONS MAY BE OBTAINED BY CONTACTING THE OFFICE OF THE DIRECTOR - RESEARCH UNIT AT (415) 703-4774.

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**GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS**

LOCALITY: LOS ANGELES COUNTY

DETERMINATION: LOS-2021-1

PREDETERMINED INCREASES

CRAFT	CLASSIFICATION	CRAFT FOOTNOTE	ISSUE DATE	EXPIRATION DATE	DATE OF NEXT INCREASE	AMOUNT OF INCREASE	INCREASE FOOTNOTE	DATE OF NEXT INCREASE	AMOUNT OF INCREASE	INCREASE FOOTNOTE	DATE OF NEXT INCREASE	AMOUNT OF INCREASE	INCREASE FOOTNOTE	DATE OF NEXT INCREASE
					1	1	1	2	2	2	3	3	3	4
CARPET, LINOLEUM,	RESILIENT TILE LAYER - SECOND SHIFT		02/22/2021	12/31/2021**	01/01/2022	\$1.690	A							
CARPET, LINOLEUM,	MATERIAL HANDLER - SECOND SHIFT	B	02/22/2021	12/31/2021**	01/01/2022	\$1.450	C							
ELECTRICIAN:	SOUND INSTALLER 2ND SHIFT		02/22/2021	12/26/2021**	12/27/2021	\$3.050	D							
ELECTRICIAN:	SOUND INSTALLER 3RD SHIFT		02/22/2021	12/26/2021**	12/27/2021	\$3.050	D							
ELECTRICIAN:	INSIDE WIREMAN, 2ND SHIFT		02/22/2021	07/25/2021**	07/26/2021	\$2.050	D	01/31/2022	\$2.100	D				
ELECTRICIAN:	INSIDE WIREMAN, 3RD SHIFT		02/22/2021	07/25/2021**	07/26/2021	\$2.050	D	01/31/2022	\$2.100	D				
ELECTRICIAN:	CABLE SPLICER- WELDER, 2ND SHIFT		02/22/2021	07/25/2021**	07/26/2021	\$2.050	D	01/31/2022	\$2.100	D				
ELECTRICIAN:	CABLE SPLICER- WELDER, 3RD SHIFT		02/22/2021	07/25/2021**	07/26/2021	\$2.050	D	01/31/2022	\$2.100	D				
ELECTRICIAN:	TUNNEL WIREMAN SECOND SHIFT		02/22/2021	07/25/2021**	07/26/2021	\$2.050	D	01/31/2022	\$2.100	D				
ELECTRICIAN:	TUNNEL WIREMAN THIRD SHIFT		02/22/2021	07/25/2021**	07/26/2021	\$2.050	D	01/31/2022	\$2.100	D				
ELECTRICIAN:	TUNNEL CABLE SPLICER SECOND SHIFT		02/22/2021	07/25/2021**	07/26/2021	\$2.050	D	01/31/2022	\$2.100	D				
ELECTRICIAN:	TUNNEL CABLE SPLICER THIRD SHIFT		02/22/2021	07/25/2021**	07/26/2021	\$2.050	D	01/31/2022	\$2.100	D				
ELECTRICIAN:	TRANSPORTATION SYSTEMS ELECTRICIAN (SECOND SHIFT)		02/22/2021	07/25/2021**	07/26/2021	\$2.050	D	01/31/2022	\$2.100	D				
ELECTRICIAN:	TRANSPORTATION SYSTEMS ELECTRICIAN (THIRD SHIFT)		02/22/2021	07/25/2021**	07/26/2021	\$2.050	D	01/31/2022	\$2.100	D				
ELECTRICIAN:	TRANSPORTATION SYSTEMS ELECTRICIAN (CABLE SPlicing, WELDING, AND NETA TESTING) 2ND SHIFT		02/22/2021	07/25/2021**	07/26/2021	\$2.050	D	01/31/2022	\$2.100	D				

CRAFT	CLASSIFICATION	CRAFT FOOTNOTE	ISSUE DATE	EXPIRATION DATE	DATE OF NEXT INCREASE	AMOUNT OF INCREASE	INCREASE FOOTNOTE	DATE OF NEXT INCREASE	AMOUNT OF INCREASE	INCREASE FOOTNOTE	DATE OF NEXT INCREASE	AMOUNT OF INCREASE	INCREASE FOOTNOTE	DATE OF NEXT INCREASE	AMOUNT OF INCREASE	INCREASE FOOTNOTE
ELECTRICIAN:	TRANSPORTATION SYSTEMS ELECTRICIAN (CABLE SPLICING, WELDING, AND META TESTING) 3RD SHIFT		02/22/2021	07/25/2021	07/26/2021	\$2,050	D	01/31/2022	\$2,100	D						
ELECTRICIAN:	TRANSPORTATION SYSTEMS TECHNICIAN (SECOND SHIFT)	E	02/22/2021	07/25/2021	07/26/2021	\$1,540	D	01/31/2022	\$1,580	D						
ELECTRICIAN:	TRANSPORTATION SYSTEMS TECHNICIAN (THIRD SHIFT)	E	02/22/2021	07/25/2021	07/26/2021	\$1,540	D	01/31/2022	\$1,580	D						
PAINTER:	PAINTER, LEAD ABATEMENT (2ND SHIFT)	E	02/22/2021	06/30/2021	07/01/2021	\$1,000	G	07/01/2022	\$,800	D						
PAINTER:	PAINTER, LEAD ABATEMENT (2ND SHIFT)	H	02/22/2021	06/30/2021	07/01/2021	\$1,000	G	07/01/2022	\$,800	D						
PAINTER:	INDUSTRIAL PAINTER (2ND SHIFT)	E	02/22/2021	06/30/2021	07/01/2021	\$1,000	G	07/01/2022	\$,800	D						
PLUMBER:	PLUMBER, INDUSTRIAL AND GENERAL PIPEFITTER (2ND SHIFT)		08/22/2020	08/31/2021	09/01/2021	\$2,260	D	09/01/2022	\$2,260	D	09/01/2023	\$2,350	D	09/01/2023	\$2,350	D
PLUMBER:	SEWER AND STORM DRAIN PIPELAYER (2ND SHIFT)		08/22/2020	08/31/2021	09/01/2021	\$2,260	D	09/01/2022	\$2,260	D	09/01/2023	\$2,350	D	09/01/2023	\$2,350	D
PLUMBER:	SEWER AND STORM DRAIN PIPE TRADESMAN (2ND SHIFT)	I	08/22/2020	08/31/2021	09/01/2021	\$,900	D	09/01/2022	\$,900	D	09/01/2023	\$,940	D	09/01/2023	\$,940	D
PLUMBER:	LANDSCAPE/IRRIGATION FITTER SECOND SHIFT		08/22/2020	08/31/2021	09/01/2021	\$2,260	D	09/01/2022	\$2,260	D	09/01/2023	\$2,350	D	09/01/2023	\$2,350	D
PLUMBER:	LANDSCAPE/IRRIGATION TRADESMAN SECOND SHIFT	J	08/22/2020	08/31/2021	09/01/2021	\$,590	D	09/01/2022	\$,590	D	09/01/2023	\$,610	D	09/01/2023	\$,610	D
PLUMBER:	REFRIGERATION SERVICE HVACR- 2ND SHIFT		08/22/2020	08/29/2021	08/30/2021	\$2,150	K	09/05/2022	\$2,150	K	09/04/2023	\$2,150	D	09/04/2023	\$2,150	D

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**FOOTNOTES**

- \*\* THE RATE TO BE PAID FOR WORK PERFORMED AFTER THIS DATE HAS BEEN DETERMINED. IF WORK WILL EXTEND PAST THIS DATE, THE NEW RATE MUST BE PAID AND SHOULD BE INCORPORATED IN CONTRACTS ENTERED INTO NOW. CONTACT THE OFFICE OF THE DIRECTOR - RESEARCH UNIT FOR SPECIFIC RATES AT (415) 703-4774.
- A \$1.44 TO THE BASIC HOURLY RATE, \$0.15 TO HEALTH & WELFARE AND \$0.10 TO VACATION/HOLIDAY.
- B A MATERIAL HANDLER MAY BE UTILIZED IN RATIO OF ONE (1) MATERIAL HANDLER WITH ANY FIVE (5) JOURNEYMEN ON ANY GIVEN PROJECT.
- C \$1.20 TO THE BASIC HOURLY RATE, \$0.15 TO HEALTH & WELFARE AND \$0.10 TO VACATION/HOLIDAY.
- D THE PREDETERMINED INCREASE SHOWN IS TO BE ALLOCATED TO WAGES AND/OR EMPLOYER PAYMENTS. PLEASE CONTACT THE OFFICE OF THE DIRECTOR - RESEARCH UNIT AT (415) 703-4774 WHEN THE PREDETERMINED INCREASE BECOMES DUE TO CONFIRM THE DISTRIBUTION. PLEASE ALSO EXAMINE THE IMPORTANT NOTICES TO SEE IF ANY MODIFICATIONS HAVE BEEN ISSUED, AS THERE MAY BE REDUCTIONS TO PREDETERMINED INCREASES.

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GENERAL PREVAILING WAGE DETERMINATION - LOS-2021-1

- E THE MAXIMUM ALLOWABLE RATIO IS ONE TRANSPORTATION SYSTEMS TECHNICIAN TO ONE JOURNEYMAN ON EACH JOB.
- F AN ADDITIONAL \$0.25 PER HOUR WILL BE ADDED TO THE BASIC HOURLY RATE WHEN PERFORMING PAPERHANGING WORK.
- G \$1.00 TO THE BASIC HOURLY RATE.
- H RATE ONLY APPLIES TO WORK PERFORMED IN ANTELOPE VALLEY, WHICH IS HIGHWAY 5, SOUTH ON U.S. 5 TO HIGHWAY N2; EAST ON HIGHWAY N2 TO PALMDALE BLVD TO HIGHWAY 14; SOUTH TO HIGHWAY 18; EAST TO HIGHWAY 395. AN ADDITIONAL \$0.25 IS ADDED TO THE BASIC HOURLY RATE WHEN PERFORMING PAPERHANGING WORK.
- I PIPE TRADESMEN SHALL NOT BE PERMITTED ON ANY JOB WITHOUT A JOURNEYMAN.
- J TRADESMEN SHALL ONLY BE USED IF THE FIRST WORKER ON THE JOB IS A LANDSCAPE/IRRIGATION FITTER, SECOND WORKER MUST BE A LANDSCAPE/IRRIGATION FITTER OR APPRENTICE LANDSCAPE/IRRIGATION FITTER, THE 3RD AND 4TH MAY BE A TRADESMAN, THE 5TH MUST BE A LANDSCAPE/IRRIGATION FITTER AND THEREAFTER TRADESMEN WILL BE REFERRED ON A 50-50 BASIS, TO JOURNEYMAN OR APPRENTICE.
- K \$1.90 TO WAGES AND/OR FRINGES AND \$0.25 TO TRAINING

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