

CITY OF IMPERIAL

WASTEWATER TREATMENT
PLANT DEMOLITION PROJECT



CONTRACT DOCUMENTS SPECIAL CONDITIONS CIVIL TECHNICAL SPECIFICATIONS ELECTRICAL TECHNICAL SPECIFICATIONS

OCTOBER 24, 2025



CITY OF IMPERIAL BID NO. 2025-019
THG PROJECT NUMBER: 173.138

CITY OF IMPERIAL

NOTICE INVITING SEALED BIDS

City of Imperial – Wastewater Treatment Plant Demolition Project

BID NO. 2025-19

PUBLIC NOTICE IS HEREBY GIVEN that the City of Imperial, as CITY, invites sealed bids for the above stated project and will receive such bids in the offices of the City Clerk at 420 S. Imperial Avenue, Imperial, California 92251 up to the hour of **3:00 P.M. Thursday, December 11, 2025**, at which time they will be publicly opened and read aloud. A bid summary will then be prepared and posted.

A **Non-Mandatory** Pre-Bid meeting will be conducted at **10:00 AM on Tuesday, December 2, 2025** at City Hall located at 420 S. Imperial Ave., Imperial, California 92251 to be followed by a Field Walkthrough at the project site.

The work to be done consists of furnishing all materials, equipment, tools, labor and incidentals as required by the contract documents for the demolition of structures at the City of Imperial Wastewater Treatment Plant. The work also includes the installation of a 12-foot x 60-foot modular office building at the Wastewater Treatment Plant site, sealing a cracked opening along a construction cold joint at the ultraviolet disinfection facility, minor lighting improvements in two (2) buildings and site grading.

Bid packages are available at City Hall, 420 S. Imperial Avenue, Imperial, California 92251 upon payment of a \$175.00 non-refundable fee (\$200.00 if mailed). Only those firms who have purchased the bid documents will be provided any addendums that may be issued for this project prior to the bid opening date.

Any contract entered into pursuant to this notice will incorporate the provisions of the State Labor Code of the State of California. Compliance with the State prevailing rates of wages and apprenticeship employment standards established by the State director of Industrial Relations will be required. Affirmative action to ensure against discrimination in employment practices on the basis of race, color, national origin, ancestry, sex, or religion will also be required.

This project is funded with local funds and does not have a specific contract Disadvantaged Businesses Enterprises (DBE) Contract Goal.

The Contractor's compliance with Executive Order 11246 and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals established for the geographical area where the contract resulting from the solicitation is to be performed. The hours of minority and female employment and training must be substantially uniform through the duration of the contract, and in each trade, and the Contractor shall make a good faith effort to employ women and minority individuals evenly on each of its projects.

The transfer of minority or female employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order, and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

Each bid must be accompanied by a guaranty of cash, certified check, cashier's check or bid bond made payable to the City of Imperial for an amount equal to at least ten percent (10%) of the bid. Such guaranty to be forfeited should the bidder to whom the contract is

awarded fails to enter the contract. All guaranties to be returned after the contract is awarded.

In conformance with the State of California Public Contract Code Section 22300, the contractor may substitute securities for any funds withheld by the City to ensure performance under the contract.

At request and expense of the contractor, securities equivalent to the amount withheld shall be deposited with the City or with a State or Federally chartered bank as the escrow agent who shall pay such funds to the contractor upon notification by the City of contractor's satisfactory completion of contract.

The type of securities deposited and the method of release shall be approved by the City Attorney's office.

As used in this notice, and in the contract resulting from this solicitation, the "covered area" is in the City of Imperial in Imperial County, State of California.

The contract documents call for monthly payments based upon the engineer's estimate of the work completed. The City of Imperial will retain five (5) percent of each progress payment as security for completion of the balance of the work. At the request and expense of the successful bidder, the City will pay the amounts so retained upon compliance with the requirements of Public Contract Code Section 22300 and the provisions of the contract documents pertaining to Substitution of Securities.

Bids must be prepared on the approved proposal forms in conformance with the Instructions to Bidders and submitted in a sealed envelope plainly marked on the outside;

ATTN: CITY CLERK: SEALED BID FOR:

City of Imperial - Wastewater Treatment Plant Demolition Project

BID NO. 2025-19

The Proposal should be delivered in a sealed envelope no later than 3:00 P.M. **Thursday, December 11**, addressed as follows:

Jenell Guerrero, MPA - Public Services Manager
City of Imperial • Public Services Department
420 S. Imperial Avenue, Imperial, CA 92251

Questions concerning the proposal should be directed to David Dale, PE with the City of Imperial at (760) 355-3336 or via email: ddale@cityofimperial.org.

Clarification desired by a proposer shall be requested in writing with sufficient time to allow for a response prior to the date RFPs are due. Oral explanation or instructions shall not be considered binding on behalf of the City.

Any modifications to this solicitation will be issued by the City as a written addendum.

The City will not consider proposals received after the specified time and date.

This RFP does not commit the City of Imperial to award a contract or pay any costs associated with the preparation of a Proposal.

The City of Imperial reserves the right to reject any or all bids, to award each item separately, delete portions of the work, and/or waive any informality on any bid. No bid may be withdrawn for 60 days after the time set for the opening thereof.

Failure by the successful bidder to enter into a contract with the City or to deliver goods and/or services in accordance with the bid may result in a declaration by the City that the bidder is not a responsible bidder, and elimination from consideration in future bidding.

No contractor or subcontractor may be listed on a bid proposal for a public works project (submitted on or after March 1, 2015) 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. Any bid submitted by a contractor or subcontractor not properly licensed and not registered with the Department of Industrial Relations shall be considered non-responsive and will be rejected.

At the time of contract award, the prime contractor shall possess a Class "A" contractor's license and/or any combination of "C" specialty contractor's license(s) sufficient to perform the work.

Dated this _____ day of _____, 2025.

By: _____
Kristina Shields – City Clerk

City of Imperial
420 S. Imperial Avenue
Imperial, CA 92251
(760) 355-4373

CITY OF IMPERIAL

INSTRUCTIONS TO BIDDERS

City of Imperial - Wastewater Treatment Plant Demolition Project

BID NO. 2025-19

PROPOSAL FORMS

Bids shall be submitted in writing on the Bid Proposal forms provided by the CITY. All information requested therein must be clearly and legibly set forth in the manner and form indicated. The CITY will not consider any bid proposal not meeting these requirements and/or not submitting all forms requested herein.

PROPOSAL GUARANTEE (BID BOND)

Proposals must be accompanied by a proposal guarantee consisting of a certified check or bid bond payable to the CITY in the amount of (10%) of the total amount Bid. Any proposal not accompanied by such a guarantee will not be considered. If a bidder to whom a contract is awarded fails or refuses to execute the contract documents or furnish the required insurance policies and bonds as set forth in those documents, the proposal guarantee shall be forfeited to the CITY. The proposal guarantees of all bidders will be held until the successful bidder has properly executed all contract documents.

NON-COLLUSION AFFIDAVIT

Bidder shall declare that the only persons or parties interested in the proposal as principals are those named therein; that no officer, agent, or employee of the CITY is personally interested, directly or indirectly, in the proposal; that the proposal is made without connection to any other individual, firm, or corporation making a bid for the same work; and that the proposal is in all respects fair and without collusion or fraud. The Non-Collusion Affidavit shall be executed and submitted with the proposal.

PROPOSAL BID SHEET

Bidders shall give a lump sum for each, and all the items set forth. The bidder shall set forth for each item of work, in clearly legible figures, a lump sum price for the item in the respective spaces provided for this purpose. A portion of the Quantities for this project are contained in Special Conditions Table D to give an indication of the general scope of work, but the accuracy of figures is approximate and the bidder is required to make his/her own estimates from the drawings and archived documents. If there is a discrepancy in the summation of the lump sum bid items Total Base Bid Amount between the Total Base Bid Amount listed by the contractor on the Bid Form and the mathematically correct Total Base Bid Amount then the mathematically correct Total Base Bid Amount will prevail.

No bidder may withdraw his proposal for a period of sixty (60) days after the time set for opening thereof. However, the CITY will return all proposal guarantees within ten (10) days after the award of the contract or rejection of the bids, as the case may be, to the respective bidders whose proposals they accompany.

DELIVERY OF PROPOSAL

Proposals may be mailed or delivered by messenger. However, it is the bidder's responsibility alone to ensure delivery of the proposal to the hands of the CITY's designated official prior to the bid opening hour stipulated in the "Notice Inviting Sealed Bids." Late proposals will not be considered. Proposals shall be enclosed in a sealed envelope plainly marked on the outside,

ATTN: CITY CLERK: SEALED BID FOR:

City of Imperial - Wastewater Treatment Plant Demolition Project
BID NO. 2025-19

WITHDRAWAL OF PROPOSALS

A proposal may be withdrawn by a written request signed by the bidder. Such requests must be delivered to the CITY's designated official prior to the bid opening hour stipulated in the "Notice Inviting Sealed Bids". The withdrawal of a proposal will not prejudice the right of the bidder to submit a new proposal, providing there is time to do so. Proposals may not be withdrawn after said hour without forfeiture of the proposal guarantee.

IRREGULAR PROPOSALS

Unauthorized conditions, limitations, or provisions attached to a proposal will render it irregular and may cause its rejection. The completed proposal forms shall be without interlineations, alterations, or erasures. Alternative proposals will not be considered unless specifically requested. No oral, telegraphic, or telephonic proposal, modification, or withdrawal will be considered.

TAXES

No mention shall be made in the proposal of Sales Tax, Use Tax, or any other tax, as all amounts bid will be deemed and held to include any such taxes, which may be applicable.

DISQUALIFICATION OF BIDDERS

In the event that any bidder acting as a prime contractor has an interest in more than one proposal, all such proposals will be rejected, and the bidder will be disqualified.

This restriction does not apply to subcontractors or suppliers who may submit quotations to more than one bidder, and while doing so, may also submit a formal proposal as a prime contractor.

No contract will be executed unless the bidder is licensed in accordance with the provisions of the State Business and Professions Code.

INTERPRETATION OF PLANS AND DOCUMENTS

If any person contemplates submission of a bid for the proposed contract and is in doubt as to the true meaning of any part of the services to be performed, he may submit to the Engineer of the CITY a written request for an interpretation or correction thereof. The person submitting the request will be responsible for its prompt delivery.

Any interpretation or correction of the proposed documents shall be made only by addendum duly issued and copy of such addendum will be mailed or delivered to each person receiving a set of such documents.

The Engineer will not be responsible for any other explanation or interpretations of the proposed documents.

ADDENDA OR BULLETINS

All bidders are advised as to the possibility of issuance of addenda affecting the items, scope or quantity of the work required for this project. Each bidder shall be fully responsible for informing himself as to whether or not any such addenda have been issued. The effect of all addenda to the Contract Documents shall be considered in the bid, and said addenda shall be made a part of the contract documents and shall be returned with them. Failure to cover in his bid any such addenda issued may render his bid irregular and may result in its rejection by the CITY.

LEGAL RESPONSIBILITIES

All proposals must be submitted, filed, made, and executed in accordance with State and Federal laws relating to bids for contracts of this nature whether the same are expressly referred to herein or not.

Any Bidder submitting a proposal shall by such action thereby agree to each and all of the terms, conditions, provisions, and requirements set forth, contemplated, and referred to in the Contract Documents, and to full compliance therewith.

AWARD OF CONTRACT

Following a review of the bids, the CITY shall determine whether to award the contract or to reject all bids. The award of contract, if made, will be to the lowest responsible Bidder as determined solely by the CITY. At the time of contract award, the successful Bidder shall hold a Class A Contractors License or a combination of Class C license(s), as required to perform the work, issued by the State of California.

Additionally, the CITY reserves the right to reject any or all proposals, to accept any bid or portion thereof, to waive any irregularity, and to take the bids under advisement for the period of time stated in the "Notice Inviting Sealed Bids", all as may be required to provide for the best interests of the CITY. In no event will an award be made until all necessary investigations are made as to the responsibility and qualifications of the Bidder to whom the award is contemplated.

No bidder may withdraw his proposal for a period of sixty (60) days after the time set for opening thereof. However, the CITY will return all proposal guarantees within ten (10) days after the award of the contract and execution of the contract documents or rejection of the bids, as the case may be, to the respective bidders whose proposals they accompany.

LABOR CODE

Pursuant to the provisions of Section 1773 of the Labor Code of the State of California (herein referred to as Labor Code), the CITY has obtained the general provisions rate of per diem wages and the general prevailing rate for holiday and overtime work in this locality for each craft, classification or type of workman needed to execute the contract from the Director of the Department of Industrial Relations. These rates are on file with the Clerk of the CITY.

Travel and subsistence payments to each workman needed to execute the work shall be made as such travel and subsistence payments are defined in the applicable collective bargaining agreements filed in accordance with Section 1773.8 of the Labor Code.

The Contractor shall comply with the provisions of Section 1774 of the Labor Code. Failure to comply with the subject section will subject the Contractor to penalty and forfeiture provisions of Section 1775 of the Labor Code.

Pursuant to the provisions of Section 1770 of the Labor Code, the general prevailing rate of wages has been ascertained (which rate includes employer payments for health and welfare, vacation, pension and similar purposes) applicable to the work to be done, for straight time, overtime, Saturday, Sunday and holiday work. The holiday wage rate listed shall be applicable to all holidays recognized in the collective bargaining agreement of the particular craft, classification or type of workmen concerned.

The CITY will not recognize any claim for additional compensation because of the payment by the Contractor of any wage rate in excess of the prevailing wage rate set forth in the contract. The possibility of wage increases is one of the elements to be considered by the Contractor in determining his bid, and will not under any

circumstances be considered as the basis of a claim against the CITY on the contract.

The CONTRACTOR and subcontractors shall comply with Section 1777.6 of the Labor Code which stipulates that it shall be unlawful to refuse to accept otherwise qualified employees as registered apprentices solely on the grounds of race, religious creed, color, national origin, ancestry, sex, or age, of such employee, except as provided in Section 3077 of the Labor Code.

WORKMAN'S COMPENSATION CERTIFICATE

Section 3700 of the Labor Code requires that every employer shall secure the payment of compensation by either being insured against liability to pay compensation with one or more insurers or by securing a certificate of consent to self-insure from the State Director of Industrial Relations.

In accordance with this section and with Section 1861 of the Labor Code, the contractor shall sign a Compensation Insurance Certificate, which is included with the Contract Agreement, and submit same to City along with the other required contract documents, prior to performing any work. Reimbursement for this requirement shall be considered as included in the various items of work.

CLAYTON ACT AND CARTWRIGHT ACT

Section 4551 of the State Government Code specifies that in executing a public works contract with the CITY to supply goods, services or materials, the Contractor or Subcontractor offers and agrees to assign to the CITY all rights, title and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 commencing with Sec. 16700) of Part 2 of Division 7 of the Business and Professions Code, arising from purchase of goods, services or materials pursuant to the contract or subcontract. This assignment shall become effective when the CITY tenders final payment to the Contractor without further acknowledgment by the parties.

SUBSTITUTION OF SECURITIES

In conformance with the State of California Public Contract Code Section 22300, the contractor may substitute securities for any funds withheld by the CITY to ensure performance under the contract.

At the request and expense of the contractor, securities equivalent to the amount withheld shall be deposited with the City or with a State or Federally chartered bank as the escrow agent who shall pay such funds to the contractor upon notification by CITY of Contractor's satisfactory completion of the contract.

The type of securities deposited and the method of release shall be approved by the City Attorney's office.

SUBLETTING AND SUBCONTRACTING

Pursuant to the Subletting and Subcontracting Fair Practices Act (commencing with Section 4100 of the Government Code), bidders are required to list in their proposal the name and location of place of business of each subcontractor who will perform work or labor or render services in or about the construction of the work or improvement or a subcontractor who specially fabricates and installs a portion of the work or improvement according to detailed drawings contained in the Plans and Specifications in excess of 1/2 of 1% of this prime contractor's total bid. Failure to list a subcontractor for a portion of the work means that the prime contractor will do that portion of the work. It is the Agency's intent for the Subletting and Subcontracting Fair Practices Act to apply to all phases of the work.

CITY BUSINESS LICENSE

The Contractor shall obtain a City of Imperial Business License prior to the City's issuing the Notice to Proceed. The annual fee for the Business License is ninety-six

dollars (\$96.00).

CITY OF IMPERIAL
BID PROPOSAL
For

City of Imperial - Wastewater Treatment Plant Demolition Project
BID NO. 2025-19

TO CITY OF IMPERIAL, as CITY:

In accordance with CITY's "Notice Inviting Sealed Bids", the undersigned BIDDER hereby proposes to furnish all materials, equipment, tools, labor, and incidentals required for the above stated project as set forth in the Contract Documents, and to perform all work in the manner and time prescribed.

BIDDER declares that this proposal is based upon careful examination of the work site, Plans, Specifications, Instructions to Bidders, and Contract Documents. If this proposal is accepted for award, BIDDER agrees to enter into a contract with the CITY at the unit and/or lump sum prices set forth in the following Proposal Bid Sheet. BIDDER understands that failure to enter into a contract in the manner and time prescribed will result in forfeiture to the CITY of the Bid Bond accompanying this proposal.

BIDDER understands that a bid is required for the entire work that the estimated quantities set forth in the Proposal Bid Sheet are solely for the purpose of comparing bids, and that final compensation under the contract will be based upon the actual quantities of work satisfactorily completed. It is agreed that the unit and/or lump sum prices bid include all appurtenant expenses, taxes, royalties, and fees. In the case of discrepancies in the amounts bid, unit prices shall govern over extended amounts.

BIDDER agrees and acknowledges that he is aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for workman's compensation or to undertake self-insurance in accordance with the provisions of that code, and that the BIDDER will comply with such provisions of that code before commencing the performance of this Contract if awarded it.

BIDDER certifies that in all previous contracts or subcontracts, all reports which may have been due under the requirements of any agency, State, or Federal equal employment opportunity orders have been satisfactorily filed, and that no such reports are currently outstanding.

BIDDER declares that the only persons or parties interested in this proposal as principals are those named herein; that no officer, agent, or employee of the CITY is personally interested, directly or indirectly, in this proposal; that this proposal is made without connection to any other individual, firm, or corporation making a bid for the same work; and that this proposal is in all respects fair and without collusion or fraud.

BIDDER certifies that affirmative action has been taken to seek out and consider disadvantaged business enterprises for those portions of the work to be subcontracted, and that such affirmative actions have been carefully documented, that said documentation is open to inspection, and that said affirmative action will remain in effect for the life of any contract awarded hereunder. Furthermore, BIDDER certifies that affirmative action will be taken to meet all equal employment opportunity requirements of the contract documents.

DATED: _____, 2025

BIDDER: _____

BIDDER'S ADDRESS:

BY: _____

TITLE: _____

TELEPHONE #: _____

FAX #: _____

BIDDER 'S INFORMATION

BIDDER certifies that the following information is true and correct:

Bidder's Name _____

Business Address _____

Telephone _____

State Contractor's License No. and Class _____

Original Date Issued _____ Expiration Date _____

The following are the names, titles, addresses, and phone numbers of all individuals, firm members, partners, joint ventures, and/or corporate officers having a principal interest in this proposal:

The dates of any voluntary or involuntary bankruptcy judgments against any principal having an interest in this proposal are as follows:

All current and prior DBA's, alias, and/or fictitious business names for any principal having an interest in this proposal are as follows:

CONTRACTOR'S LICENSING STATEMENT

The undersigned is licensed in accordance with the laws of the State of California providing for the registration of Contractors.

Contractor's License Number: _____

Name of Individual Contractor (Print or type): _____

Signature of Owner: _____

Business Address: _____

Or

Name of Firm: _____

Business Address: _____

Name: _____ Title: _____

Address: _____

Or

Name of Corporation: _____

Corporation Address: _____

Corporation organized under the laws of the State of _____

Signature of President of Corporation

Signature of Secretary of Corporation

LIST OF SUBCONTRACTORS

BIDDER proposes to subcontract certain portions of the work, and to procure materials and equipment from suppliers and vendors as follows:

Name Under Which Subcontractor Is Licensed	Specific License of No.	Address Office Mill/Shop	Percent of Total Contract	Description of Subcontract

REFERENCES

The following are the names, addresses, and phone numbers for three public agencies for which BIDDER has performed similar work within the past two years:

DESIGNATION OF SURETIES

The following are the names, addresses, and phone numbers for all brokers and sureties from whom BIDDER intends to procure insurance and bonds:

CITY OF IMPERIAL

BID BOND

City of Imperial - Wastewater Treatment Plant Demolition Project
BID NO. 2025-19

KNOW ALL MEN BY THESE PRESENTS that _____,
as BIDDER, and _____,
as SURETY, are held and firmly bound unto the CITY OF IMPERIAL, as CITY, in the penal
sum of _____
dollars (\$ _____), which is ten percent (10%) of the total amount bid by
BIDDER to the CITY for the above stated project, for the payment of which sum, BIDDER
and SURETY agree to be bound, jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATION ARE SUCH that, whereas BIDDER is about to
submit a bid to CITY for the above stated project, if said bid is rejected, or if said bid is
accepted and a contract is awarded and entered into by BIDDER in the manner and time
specified, then this obligation shall be null and void, otherwise it shall remain in full force and
effect in favor of AGENCY.

WITNESS our hands this ____ day of _____, 2025.

(seal)

CONTRACTOR (CORPORATION) – TYPE

By: _____
President

By _____
Secretary/Treasurer

NOTE: SIGNATURE OF CORPORATE OFFICIALS MUST BE NOTARIZED.

Subscribed and sworn to before me
this _____ day of _____, 2025.

Notary Public _____

(Page 1 of 2)

SURETY'S NAME-TYPE

Mailing Address _____

By: _____
Name

Title _____

NOTE: SIGNATURE OF SURETY MUST BE NOTARIZED.

Subscribed and sworn to before me
this _____ day of _____, 2025.

Notary Public _____

(seal)

NON-COLLUSION AFFIDAVIT

STATE OF CALIFORNIA)
) SS
COUNTY OF _____)

_____ being first duly sworn
deposes and says that he is _____ (sole owner, a partner,
president, etc.) of _____ the party
making the foregoing bid; that such bid is not made in the interest of or behalf of any
undisclosed person, partnership, company, association, organization or corporation, that
such bid is genuine and not collusive or a sham, that said bidder has not directly or
indirectly induced or solicited any other bidder to put in a sham bid, or that anyone shall
refrain from bidding, that said bidder has not in any manner, directly or indirectly sought
by agreements, communication or conference with anyone to fix the bid price of said
bidder or of any other bidder, or to fix the overhead, profit, or cost element of such bid
price, or of that of any other bidder, or to secure any advantage against the public body
awarding the contract or anyone interested in the proposed contract; that all statements
contained in such bid are true, and further, that said bidder has not, directly or indirectly
submitted his bid price, or any breakdown thereof, or the contents thereof, or divulged
information or data relative thereto, or paid and will not pay any fee in connection,
organization, bid depository, or to any member or persons as have a partnership or other
financial interest with said bidder in his general business.

Signed: _____

Title: _____

Subscribed and sworn to before me
this _____ day of _____, 2025.

Notary Public _____

CITY OF IMPERIAL
PROPOSAL BASE BID (Items 1-9)
FOR
City of Imperial - Wastewater Treatment Plant Demolition Project
BID NO. 2025-19

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Amount</u>
1.	<p>Mobilization including city business license per instruction for bidders, establishing a staging area as required, providing electrical power for the site as required, Payment Bond, Performance Bond, Insurance, moving equipment and materials to the project site, providing a potable water supply for construction personnel, providing night lighting as required; providing temporary restroom facilities for construction personnel, meeting attendance, administration items such as payment request, change orders, request for information forms, submittals and similar administrative items.</p>	\$ _____
2.	<p>Complete demolition and improvements to the Operations Building and area surrounding the Operations Building including the retaining wall in accordance with plan sheets 1, 2, 3, 10, 11, 12, 20, 21, 22, 23 and 29; Technical Specifications; Special Conditions: Notice Inviting Sealed Bids; Instruction to Bidders; Bid Proposal; Contract Agreement; General Specifications and any Addendum(a) complete in its entirety of the lump sum indicated.</p>	\$ _____

3. Complete demolition of **Clarifier Number 1** and the area surrounding Clarifier Number 1 in accordance with plan sheets 1, 2, 4, 13 and 29; Technical Specifications; Special Conditions; Notice Inviting Sealed Bids; Instruction to Bidders; Bid Proposal; Contract Agreement; General Specifications and any Addendum(a) complete in its entirety of the lump sum indicated. \$ _____
4. Complete demolition of **Clarifier Number 2** and the area surrounding Clarifier Number 2 in accordance with plan sheets 1, 2, 5, 14 and 29: Technical Specifications; Special Conditions; Notice Inviting Sealed Bids; Instruction to Bidders; Bid Proposal; Contract Agreement; General Specifications and any Addendum(a) complete in its entirety of the lump sum indicated. \$ _____
5. Complete demolition and improvements to the **Sludge Pump Station** and surrounding area including the scum pit in accordance with plan sheets 1, 2, 6, 7, 15, 16, 17, 24, 25, 26, 27 and 28; Technical Specifications; Special Conditions: Notice Inviting Sealed Bids; Instruction to Bidders; Bid Proposal; Contract Agreement; General Specifications and any Addendum(a) complete in its entirety of the lump sum indicated. \$ _____

6. Complete improvements to the **Ultraviolet Disinfection Facility** in accordance with plan sheets 1, 2, 8 and 18; Technical Specifications; Special Conditions: Notice Inviting Sealed Bids; Instruction to Bidders; Bid Proposal; Contract Agreement; General Specifications and any Addendum(a) complete in its entirety of the lump sum indicated. \$ _____
7. Complete demolition of the **Septic Dump Structure** and surrounding area in accordance with plan sheets 1, 2 and 9; Technical Specifications; Special Conditions: Notice Inviting Sealed Bids; Instruction to Bidders; Bid Proposal; Contract Agreement; General Specifications and any Addendum(a) complete in its entirety of the lump sum indicated. \$ _____
8. Install a **New Modular Building** in accordance with plan sheets 1, 2, 19, and 30; Technical Specifications; Special Conditions: Notice Inviting Sealed Bids; Instruction to Bidders; Bid Proposal; Contract Agreement; General Specifications and any Addendum(a) complete in its entirety of the lump sum indicated. \$ _____
9. Complete **Site Grading** in accordance With plan sheets 1, 2 and 30; Technical Specifications; Special Conditions: Notice Inviting Sealed Bids; Instruction to Bidders; Bid Proposal; Contract Agreement; General Specifications and any Addendum(a) complete in its entirety of the lump sum indicated. \$ _____

**CITY OF IMPERIAL
BASE BID PROPOSAL**

NOTE 1: IF THERE IS A DISCREPANCY IN THE SUMMATION OF THE LUMP SUM BID ITEMS TOTAL BASE BID AMOUNT BETWEEN THE TOTAL BASE BID AMOUNT LISTED BY THEIR CONTRACTOR ON THE BID FORM AND THE MATHEMATICALLY CORRECT TOTAL BASE BID, THEN THE MATHEMATICALLY CORRECT TOTAL BASE BID AMOUNT WILL PREVAIL.

NOTE 2: THE LOWEST RESPONSIVE BID WILL BE BASED ON THE LOWEST TOTAL BASE BID PROPOSAL AMOUNT.

TOTAL AMOUNT OF **BASE BID** PROPOSAL – ITEMS 1 THROUGH 9
(NUMBERS) _____

TOTAL AMOUNT OF **BASE BID** PROPOSAL – ITEMS 1 THROUGH 9
(WORDS) _____

Bidder's Name and Telephone Number

BID PROPOSAL

IN WITNESS WHEREOF, BIDDER executes and submits this bid proposal with the names, titles, hands, and seals of all forenamed principals this _____ day of _____, 2025.

Bidder: _____

By: _____

Title: _____

Subscribed and sworn to this _____ day of _____, 2025.

NOTARY PUBLIC _____

AGENCY acknowledges this proposal was received and opened at the time and in the place specified, and that it was accompanied by the required guarantee in the amount of ten percent (10%) of the total bid.

By: _____

Title: _____

CITY OF IMPERIAL

CONTRACT AGREEMENT

City of Imperial - Wastewater Treatment Plant Demolition Project
BID NO. 2025-19

THIS CONTRACT AGREEMENT is made and entered into for the above stated project this _____ day of _____, 2025, BY AND BETWEEN THE CITY OF Imperial, as the CITY, and _____, as CONTRACTOR.

WITNESSETH that the CITY and CONTRACTOR have mutually agreed as follows:

ARTICLE I

The contract documents for the aforesaid project shall consist of the Notice Inviting Sealed Bids, Instructions to Bidders, Proposal, General Specifications, Standard Specifications, Special Provisions, Plans, and all referenced specifications and appendices; together with this Contract Agreement and all required bonds, insurance certificates, permits, notices, and affidavits; and also including any and all addenda or supplemental agreements clarifying, amending, or extending the work contemplated as may be required to insure its completion in an acceptable manner. All of the provisions of said contract documents are made a part hereof as though fully set forth herein.

ARTICLE II

For and in consideration of the payments and agreements to be made and performed by the CITY, the CONTRACTOR agrees to furnish all materials and perform all work required for the above stated project, and to fulfill all other obligations as set forth in the aforesaid contract documents.

ARTICLE III

CONTRACTOR agrees to receive and accept the lump sum prices set forth in the Proposal as the basis for compensation for furnishing all materials, performing all work, and fulfilling all obligations hereunder. Said compensation shall cover all expenses, losses, damages, and consequences arising out of the nature of work during its progress or prior to its acceptance including those for well and faithfully completing the work and the whole thereof in the manner and time specified in the aforesaid contract documents; and also including those arising from actions of the elements, unforeseen difficulties or obstructions encountered in the prosecution of the work, suspension or discontinuance of the work, and all other unknowns or risks of any description connected with the work.

ARTICLE IV

The CITY hereby promises and agrees to employ, and does hereby employ, CONTRACTOR to provide the materials, do the work, and fulfill the obligations according to the terms and conditions herein contained and referred to, for the lump sum amounts aforesaid, and hereby contracts to pay the same at the time, in the manner, and upon the conditions set forth in the contract documents.

ARTICLE V

CONTRACTOR acknowledges the provisions of the State Labor Code requiring every employer to be insured against liability for worker's compensation, or to undertake self-insurance in accordance with the provisions of that code, and certifies compliance with such provisions.

ARTICLE VI

CONTRACTOR agrees to indemnify and hold harmless the CITY and all of its officers and agents from any claims, demands, or causes of action, including related expenses, attorney's fees, and costs, based on, arising out of, or in any way related to the work undertaken by CONTRACTOR hereunder.

ARTICLE VII

CONTRACTOR affirms that the signatures, titles, and seals set forth hereinafter in execution of this Contract Agreement represent all individuals, firm members, partners, joint ventures, and/or corporate officers having a principal interest herein.

IN WITNESS WHEREOF the parties hereto have caused this Contract Agreement to be executed the day and year first written.

CITY:

CONTRACTOR:

MAYOR – CITY OF IMPERIAL

(CORPORATION NAME –TYPE)

ATTEST: _____

BY: _____

TITLE: _____

BY: _____

TITLE: _____

KRISTINA SHIELDS
CITY CLERK - CITY OF IMPERIAL

**NOTE: SIGNATURES OF CORPORATE OFFICIALS AND SURETY MUST
 BE NOTARIZED.**

Subscribed before me on this ____ day of _____, 2025.

Notary Public

(SEAL)

My commission expires: _____

CONTRACT PERFORMANCE BOND

(CALIFORNIA PUBLIC WORK)

KNOW ALL MEN BY THESE PRESENTS:

THAT WHEREAS, the CITY OF IMPERIAL (sometimes referred to hereinafter as "Obligee") has awarded to _____ (hereinafter designated as the "Contractor"), an agreement for the work described as follows:

**City of Imperial - Wastewater Treatment Plant Demolition Project
BID NO. 2025-19**

(hereinafter referred to as the "Public Work"); and

WHEREAS, the work to be performed by the Contractor is more particularly set forth in that certain contract for the said Public Work dated _____, (hereinafter referred to as the "Contract"), which Contract is incorporated herein by this reference; and

WHEREAS, the Contractor is required by said Contract to perform the terms thereof and to provide a bond both for the performance and guaranty thereof.

NOW, THEREFORE, we, _____, the undersigned Contractor, as Principal, and _____,

_____ a corporation organized and existing under the laws of the State of _____, and duly authorized to transact business under the laws of the State of California, as Surety, are held and firmly bound unto the City of Imperial in the sum of _____ Dollars (\$ _____)

said sum being not less than one hundred percent (100%) of the total amount payable by the said Obligee under the terms of the said Contract, for which amount will and truly to be made, we bind ourselves, our heirs, executors and administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that, if the bounden Contractor, his or its heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and will and truly keep and perform the covenants, conditions and agreements in the said Contract and any alteration thereof made as therein provided, on his or its part, to be kept and performed at the time and in the manner therein specified, and in all respects according to their intent and meaning; and shall faithfully fulfill the one year guarantee of all materials and workmanship; and indemnify and save harmless the Obligee, its officers and agents, as stipulated in said Contract, then this obligation shall become null and void; otherwise it shall be and remain in full force and effect.

The said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or the Specifications accompanying the same shall in any way affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work or to the Specifications.

No final settlement between the Obligee and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

Contractor and Surety agree that if the Obligee is required to engage the services of an attorney in connection with enforcement of the bond, each shall pay Obligee's reasonable attorney's fees incurred, with or without suit, in addition to the above sum.

IN WITNESS WHEREOF, we have hereunto set our hands and seals
this _____ day of _____, 2025.

PRINCIPAL/CONTRACTOR:

By: _____

SURETY:

By: _____

Attorney-in-Fact

The rate of premium on this bond is _____ per thousand.

The total amount of premium charged: \$ _____

(The above must be filled in by corporate surety).

IMPORTANT: Surety companies executing bonds must possess a certificate of authority from the California Insurance Commissioner authorizing them to write surety insurance defined in Section 105 of the California Insurance Code, and if the work or project is financed, in whole or in part, with federal, grant or loan funds, it must also appear on the Treasury Department's most current list (Circular 570 as amended). **THIS IS A REQUIRED FORM.**

Any claims under this bond may be addressed to:

(Name and Address of Surety)

(Name and Address of agent or representative for service of process in California if different from above)

(Telephone Number of Surety and agent or representative for service of process in California).

STATE OF CALIFORNIA)
) ss.
COUNTY OF _____)

On this _____ day of _____, in the year 2025, before me, _____, a Notary Public in and for said State, personally appeared _____, known to me to be the person whose name is subscribed to the within instrument as the Attorney-in-Fact of the _____ (Surety) thereto and his own name as Attorney-in-Fact.

Notary Public in and for said State

(SEAL)

My Commission expires: _____

NOTE: A copy of the power of attorney to local representatives of the bonding company must be attached hereto.

PAYMENT BOND
(CALIFORNIA PUBLIC WORK)

KNOW ALL MEN BY THESE PRESENTS:

THAT WHEREAS, the City of Imperial (sometimes referred to hereinafter as "Obligee") has awarded to (hereinafter designated as the "Contractor"), an agreement dated _____, described as follows:

City of Imperial - Wastewater Treatment Plant Demolition Project
BID NO. 2025-19

(hereinafter referred to as the "Contract"): and

WHEREAS, said Contractor is required to furnish a bond in connection with said Contract, and pursuant to Section 3247 of the California Civil Code;

NOW, THEREFORE, We, _____, the undersigned Contractor, as Principal; and _____, a corporation organized and existing under the laws of the State of _____, and duly authorized to transact business under the laws of the State of California, as Surety, are held and firmly bound unto the City of Imperial and to any and all persons, companies or corporations entitled to file stop notices under Section 3181 of the California Civil Code, in the sum of _____ Dollars (\$_____)

said sum being not less than one hundred percent (100%) of the total amount payable by the said Obligee under the terms of the said Contract, for which payment will and truly to be made, we bind ourselves, our heirs, executors and administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that, if said Contractor, his or its heirs, executors, administrators, successors or assigns, or Sub-contractors, shall fail to pay for any materials, provisions or other supplies, implements, machinery or power used in, upon for or about the performance of the Public Work contracted to be done, or to pay any person for any work or labor of any kind, or for bestowing skills or other necessary services thereon, or for amounts due under the Unemployment Insurance Code with respect to such work or labor, or for any amounts required to be deducted, withheld, and paid over to the Employment Development Department from the wages of employees of paid Contractor and his Subcontractors pursuant to Section 13020 of the Unemployment Insurance Code with respect to such work and labor as required by the provisions of Section 3247 through 3252 of the Civil Code, the Surety or Sureties hereon will pay for same in an amount not exceeding the sum specified in this bond, otherwise the above obligation shall be void. In addition to the provisions hereinabove, it is agreed that this bond will inure to the benefit of any and all persons, companies and corporations entitled to serve stop notices under Section 3181 of the Civil Code, so as to give a right of action to them or their assigns in any suit brought upon this bond.

The Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or additions to the terms of the said Contract or to the work to be performed thereunder or the Specifications accompanying the same shall in any way affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work or to the Specifications.

No final settlement between the Obligee and the Contractor hereunder shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

Contractor and Surety agree that if the Obligee is required to engage the services of an attorney in connection with the enforcement of this bond, each shall pay Obligee's reasonable attorney's fees incurred, with or without suit, in addition to the above sum.

IN WITNESS WHEREOF, we have hereunto set our hands and seal this _____ day of _____, 2025.

PRINCIPAL/CONTRACTOR:

By: _____

SURETY: _____

By: _____

Attorney-in-Fact

IMPORTANT: Surety companies executing bonds must possess a certificate of authority from the California Insurance Commissioner authorizing them to write surety insurance defined in Section 105 of the California Insurance Code, and if the work or project is financed, in whole or in part, with federal, grant or loan funds, it must also appear on the Treasury Department's most current list (Circular 570 as amended). **THIS IS A REQUIRED FORM.**

Any claims under this bond may be addressed to:

(Name and Address of Surety)

(Name and Address of agent or representative for service of process in California if different from above)

(Telephone Number of Surety and agent or representative for service of process in California).

STATE OF CALIFORNIA)
) ss.
COUNTY OF _____)

On this _____ day of _____, in the year 2025, before me,
_____, a Notary Public in and
for said State personally appeared _____
_____, known to me to be the person whose name is subscribed to the within
instrument as the Attorney-in-Fact of the _____(Surety) and
acknowledged to me that he subscribed the name of the _____
_____(Surety) thereto and his own name as Attorney-in-Fact.

Notary Public in and for said State

(SEAL)

My Commission expires: _____

Note: A copy of the power of attorney to local representatives of the bonding company
must be attached hereto.

GENERAL LIABILITY ENDORSEMENT

CITY OF IMPERIAL
420 S. Imperial Ave.
Imperial, CA 92251

A. POLICY INFORMATION

Endorsement # _____

1. Insurance Company: _____

Policy Number: _____

2. Policy Term: (From) _____ (To) _____

Endorsement Effective Date: _____

3. Named Insured: _____

4. Address of Named Insured: _____

5. Limit of Liability Any One Occurrence/Aggregate:

\$ _____

6. Deductible or Self-Insured Retention (Nil unless otherwise specified):

\$ _____

7. Coverage is equivalent to:

Comprehensive General Liability form GL0002 _____

Commercial General Liability "Occurrence" form CG0001 _____

8. Bodily Injury and Property Damage Coverage is: _____ "occurrence"

Note: The City of Imperial standard insurance requirements specify "occurrence" coverage. "Claims-made" coverage is not acceptable. If commercial general liability form or equivalent is used, the general aggregate must apply separately to this location/project or the general aggregate must be twice the occurrence limit.

9. Description of Project: _____

B. POLICY AMENDMENTS

This endorsement is issued in consideration of the policy premium. Notwithstanding any inconsistent statement in the policy to which this endorsement is attached or any other endorsement attached thereto, it is agreed as follows:

1. **INSURED**. As respects any work performed on the above-described Project, the City of Imperial, its elected or appointed officers, officials, employees, consulting engineers, and volunteers are included as insured with regard to damages and defense of claims arising from: (a) activities performed by or on behalf of the Named Insured, (b) products and completed operations of the Named Insured, or (c) premises owned, leased or used by the Named Insured.
1. **CONTRIBUTION NOT REQUIRED**. As respects: (a) work performed by the Named Insured on the above-described Project for or on behalf of the City of Imperial; or (b) products sold by the Named Insured to the City of Imperial for use on the Project; or (c) premises leased by the Named Insured from the City of Imperial, the insurance afforded by this policy shall be primary insurance as respects the City of Imperial, its elected or appointed officers, officials, employees, consulting engineers, or volunteers; or stand in an unbroken chain of coverage excess of the Named Insured schedule underlying primary coverage. In either event, any other insurance maintained by the City of Imperial, its elected or appointed officers, officials, employees, consulting engineers, or volunteers shall be in excess of this insurance and shall not contribute with it.
3. **SCOPE OF COVERAGE**. This policy, if primary, affords coverage at least as broad as:
 - (1) Insurance Services Office form number GL 0002 (Ed. 1/73), Comprehensive General Liability Insurance and Insurance Services Office form number GL 0404 Broad Form Comprehensive General Liability endorsement; or
 - (2) Insurance Services Office Commercial General Liability Coverage, "occurrence" form CG 0001; or
 - (3) If excess, affords coverage which is at least as broad as the primary insurance forms referenced in the preceding sections (1) and (2).
4. **SEVERABILITY OF INTEREST**. The insurance afforded by this policy applies separately to each insured who is seeking coverage or against whom a claim is made or a suit is brought, except with respect to the Company's limit of liability.
5. **PROVISIONS REGARDING THE INSURED'S DUTIES AFTER ACCIDENT OR LOSS**. Any failure to comply with reporting provisions of the policy shall not affect coverage provided to the City Imperial, its elected or appointed officer, officials, employees, consulting engineers or volunteers.
6. **CANCELLATION NOTICE**. The insurance afforded by this policy shall not be suspended, voided, canceled, reduced in coverage or in limits except after thirty (30) days prior written notice by certified mail return receipt requested has been given to the City of Imperial. Such notice shall be addressed as shown in the heading of this endorsement.

C. INCIDENT AND CLAIM REPORTING PROCEDURE

Incidents and claims are to be reported to the insurer at:

ATTN: _____
(Title) (Department)

(Company)

(Street Address)

(City) (State) (Zip Code)

(Telephone Number)

D. SIGNATURE OF INSURER OR AUTHORIZED REPRESENTATIVE OF THE INSURER

I, _____, warrant that I have authority to bind the
(print/type name) listed Insurance company and by my
signature hereon do so bind this company.

SIGNATURE OF AUTHORIZED REPRESENTATIVE (Original Signature required on
endorsement furnished to the City of Imperial)

ORGANIZATION: _____

TITLE: _____

ADDRESS: _____

TELEPHONE: _____

AUTOMOBILE LIABILITY ENDORSEMENT

CITY OF IMPERIAL
420 S. Imperial Ave.
Imperial, CA 92251

A. POLICY INFORMATION

Endorsement # _____

1. Insurance Company: _____
Policy Number: _____

2. Policy Term: (From) _____ (To) _____
Endorsement Effective Date: _____

3. Named Insured: _____

4. Address of Named Insured: _____

5. Limit of Liability Any One Occurrence/Aggregate
\$ _____

6. Deductible or Self-Insured Retention (Nil unless otherwise specified):

B. POLICY AMENDMENTS

This endorsement is issued in consideration of the policy premium. Notwithstanding any inconsistent statement in the policy to which this endorsement is attached or any other endorsement attached thereto, it is agreed as follows:

1. **INSURED.** The City of Imperial, its elected or appointed officers, officials, consulting engineers, employees and volunteers are included as insured with regard to damages and defense of claims arising from: the ownership, operation, maintenance, use, loading or unloading of any auto owned, leased, hired or borrowed by the Named Insured, regardless of whether liability is attributable to the Named Insured or a combination of the Named Insured and the City of Imperial, its elected or appointed officers, officials, employees, consulting engineers or volunteers.

2. **CONTRIBUTION NOT REQUIRED.** As respects work performed by the Named Insured for or on behalf of the City of Imperial, the insurance afforded by this policy shall:

(a) be primary insurance as respects the City of Imperial, its elected or appointed officers, officials, employees, consulting engineers or volunteers;

or

(b) stand in an unbroken chain of coverage in excess of the Named Insured's primary coverage. In either event, any other insurance maintained by the City of Imperial, its elected or appointed officers, officials, employees or volunteers shall be in excess of this insurance and shall not contribute with it.

3. **SCOPE OF COVERAGE.** This policy, if primary, affords coverage to the Named Insured at least as broad as:

(1) Insurance Services Office form number CA 00001 (Ed. 1/78), Code 1 ("any auto") and endorsement CA 0025.

(2) If excess, affords coverage which is at least as broad as the primary insurance forms referenced in the preceding section (1).

4. **SEVERABILITY OF INTEREST.** The insurance afforded by this policy applies separately to each insured who is seeking coverage or against whom a claim is made or a suit is brought, except with respect to the Company's limit of liability.

5. **PROVISIONS REGARDING THE INSURED'S DUTIES AFTER ACCIDENT OR LOSS.** Any failure to comply with reporting provisions of the policy shall not affect coverage provided to the City of Imperial, its elected or appointed officer, officials, employees, consulting engineers or volunteers.

6. **CANCELLATION NOTICE.** The insurance afforded by this policy shall not be suspended, voided, canceled, reduced in coverage or in limits except after thirty (30) days prior written notice by certified mail return receipt requested has been given to the City of Imperial. Such notice shall be addressed as shown in the heading of this endorsement.

C. INCIDENT AND CLAIM REPORTING PROCEDURE

Incidents and claims are to be reported to the insurer at:

ATTN: _____
(Title) (Department)

(Company)

(Street Address)

(City) (State) (Zip Code)

(Telephone)

D. SIGNATURE OF INSURER OR AUTHORIZED REPRESENTATIVE OF THE INSURER

I, _____, warrant that I have authority to bind the
(print/type name) listed Insurance company and by my
signature hereon do so bind this company.

SIGNATURE OF AUTHORIZED REPRESENTATIVE (Original Signature required on
endorsement furnished to the City of Imperial)

ORGANIZATION: _____

TITLE: _____

ADDRESS: _____

TELEPHONE: _____

**WORKER'S COMPENSATION/EMPLOYERS
LIABILITY ENDORSEMENT**

CITY OF IMPERIAL
420 S. Imperial Ave.
Imperial, CA 92251

A. POLICY INFORMATION Endorsement # _____

1. Insurance Company: _____

Policy Number: _____

2. Effective Date of This Endorsement: _____

3. Named Insured: _____

4. Employer's Liability Limit (Coverage B) _____

B. POLICY AMENDMENTS

In consideration of the policy premium and notwithstanding any inconsistent statement in the policy to which this endorsement is attached or any other endorsement attached thereto, it is agreed as follows:

1. CANCELATION NOTICE. The insurance afforded by this policy shall not be suspended, voided, canceled, reduced in coverage or in limits except after thirty (30) days prior written notice by certified mail return receipt requested has been given to the City of Imperial. Such notice shall be addressed as shown in the heading of this endorsement.
2. WAIVER OF SUBGROGATION. The Insurance Company agrees to waive all rights of subrogation against the City of Imperial, its elected or appointed officers, officials, agents and employees for losses paid under the terms of this policy which arise from work performed by the Named Insured for the City of Imperial.

C. SIGNATURE OF INSURER OR AUTHORIZED REPRESENTATIVE OF THE INSURER

I, _____, warrant that I have authority to bind the
(print/type name) listed Insurance company and by my
signature hereon do so bind this company.

SIGNATURE OF AUTHORIZED REPRESENTATIVE (Original Signature required on
endorsement furnished to the City of Imperial)

ORGANIZATION: _____

TITLE: _____

ADDRESS: _____

TELEPHONE: _____

CITY OF IMPERIAL

GENERAL SPECIFICATIONS

FOR
City of Imperial - Wastewater Treatment Plant Demolition Project

BID NO. 2025-19

SCOPE OF WORK

The work to be done consists of furnishing all materials, equipment, tools, labor and incidentals as required by the contract documents to construct the above stated project.

The scope of work includes construction and installation of a new sewer main pipeline, new sewer manholes and new pump station wet well. The project will also include connecting existing sewer collection system to new sewer main pipeline, new perimeter block wall at new pump station location, other improvements and traffic control around the construction zones. Materials testing will be provided by the Contractor.

LOCATION OF WORK

1. The work is located at the City of Imperial Wastewater Treatment Plant at 701 West 14th Street, Imperial, CA 92251.

TIME OF COMPLETION

The Contractor shall complete all work in every detail within One Hundred Ten (110) Working days after the date of the Notice to Proceed, exclusive of maintenance periods.

TRAFFIC REQUIREMENTS

With the exception of transporting borrowed material between the City of Imperial Wastewater Treatment Plant and the City of Imperial Wastewater Treatment Plant, no traffic impacts will be resultant from this project. See Special Condition Section 4.

UTILITY REQUIREMENTS

The Contractor is advised of the existence of the utility notification service provided by UNDERGROUND SERVICE ALERT (USA). USA member utilities will provide the Contractor with approximate locations of their substructures in the construction area when the Contractor gives at least 48 hours' notice to the Underground Service Alert by calling 811. Contractor shall contact USA as specified and shall provide the City with proof of contact with USA upon request.

Prior to begin of construction, the Contractor shall "pot hole" and/or excavate to determine the depth of existing underground utilities. Any "pot hole" and/or excavation shall be performed in presence of the utility company representative. Contractor shall notify the following agencies at least 48 hours in advance of excavating around any of their utilities or structures.

1. Imperial Irrigation District Power: Maricruz Salcedo (760) 339-9493
2. Imperial Irrigation District Water: Olivia Alcaraz (760) 339-9108
2. Southern California Gas: J.Montenegro, (760) 352-6100 / E.Cuevas (760) 370-5812
3. SBC - Telephone Company: Mike Ormand, (760) 337-3358
4. Time Warner (Cable TV): Keith Johnson, (760) 352-8835
5. Imperial County Public Works Department: John Gay, Deputy Director, (760) 482-4462
6. City of Imperial Water Department: Robert Emmitt, (760) 355-2155
7. City of Imperial Wastewater Department: Chris Kemp, (760) 355-2718
8. City of Imperial Public Works Department: David Dale, (760) 355-1152

The Contractor shall exercise extreme care to protect all existing utilities in place whether shown on the plans or not, and shall assume full responsibility for all damage resulting from his operations. The Contractor shall coordinate with each utility company as to the requirements and methods for protection of their facilities during the construction period, and shall be responsible for preparation and processing of any required plans or permits. The Contractor shall assume full responsibility to maintain uninterrupted service for all utilities, including temporary service connections. Payment for protection in place shall be deemed as included in the items of work as shown on the proposal bid sheet and no additional compensation will be allowed.

FLOW AND ACCEPTANCE OF WATER

It is anticipated that storm, surface or other waters may be encountered at various times and locations during the work herein contemplated. The Contractor, by submitting a bid, acknowledges that he has investigated the risk arising from such waters and has prepared his bid accordingly, and Contractor, by submitting a bid, assumes all of said risk.

The Contractor shall conduct his operations in such a manner that storm or other waters may proceed uninterrupted along their existing street or drainage courses. Diversion of water for short reaches to protect construction in progress will be permitted if public and/or private properties, in the opinion of the Engineer, are not subject to the probability of damage. The Contractor shall obtain written permission from the applicable public agency or property owner before any diversion of water outside of street right of way will be permitted.

REMOVAL OF WATER

The Contractor shall provide and maintain at all times during construction ample means and devices to promptly remove and properly dispose of all water entering the excavations or other parts of the work. Dewatering for the structures undergoing demolition shall commence when ground water is first encountered, and shall be continuous until such time as the excavated demolition area is properly backfilled. Dewatering shall be accomplished by well points or some other method which will insure a preservation of final lines and grade of the bottoms of excavation, all subject to the approval of the Engineer.

Disposal of water from dewatering operations shall be the sole responsibility of the Contractor. Disposal methods shall conform to the Porter-Cologne Water Quality Control Act, 1974, the Federal Water Pollution Control Act Amendments of 1972, and the California Administrative Code, Title 23, Chapter 3.

Full compensation of dewatering shall be considered as included in the contract prices paid for the related items of work, and no additional compensation will be allowed therefore.

TRENCH EXCAVATION AND SHORING

For any contract for public works for excavation of any trench or trenches five (5) feet or more in depth, the Agency shall require submission by the Contractor and acceptance by the awarding body or by a Registered Civil or Structural Engineer to whom authority to accept has been delegated, in advance of excavation, a detailed plan showing the design of shoring, bracing, sloping, or other provisions to be made for worker protection from the hazard of caving ground during the excavation of such trench or trenches. This plan shall be prepared by a Registered Civil or Structural Engineer.

Nothing in this Section shall be deemed to allow the use of a shoring, sloping, or protective system less effective than that required by the safety standards set forth by the State of California Safety Requirements. Nothing in this Section shall be construed to impose tort

liability on the awarding body or any of its employees.

STANDARD SPECIFICATIONS

The Standard Specifications of the Agency are contained in the latest edition of the STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, as written and promulgated by the Joint Cooperative Committee of the Southern California Chapter of the American Public Works Association and the Southern California District of the Associated General Contractors of California (The Greenbook).

Copies of these Standard Specifications are available from the publisher:

Building News, Incorporated
P.O. Box 3031 Terminal Annex
Los Angeles, California 90051
(213) 202-7775

The Standard Specifications set forth above will control the general provisions for this contract except as amended by the Plans, Special Provisions, or other contract documents.

The section numbers of the following Special Provisions coincide with those of the said Standard Specifications. Only those sections requiring amendment or elaboration, or specifying options, are called out.

In case of conflict between the Standard Specifications and the Special Provisions, the Special Provisions shall take precedence over and be used in lieu of such conflicting portions.

References in the Special Provisions to "CALTRANS Standard Specifications" shall mean the latest edition of the Standard Specifications of the State of California, Department of Transportation. Copies of these specifications and standard drawings may be obtained from:

*State of California
Department of Transportation
Central Publication Distribution Unit
6002 Folsom Boulevard
Sacramento, California 95819*

References in the Special Provisions to Standard Plans shall mean the Standard Plans of the City of Imperial or other governing agency as specified.

Where the Plans or Specifications describe portions of the work in general terms, but not in complete detail, it is understood that the item is to be furnished and installed complete and in place and that only the best general practice is to prevail and that only materials and workmanship of the first quality are to be used. Unless otherwise specified, the Contractor shall furnish all labor, materials, tools, equipment and incidentals, and do all the work involved in executing the contract.

WAGE RATES AND LABOR CODE REQUIREMENTS

Wage Rates

The Contractor and all Subcontractors shall be required to adhere to State general prevailing rate of per diem wages as determined and published by the State Director of the Department of Industrial Relations, pursuant to Sections 1770, 1773, and 1773.2 of the California Labor Code. Copies of these rates and the latest revisions thereto are on file in the Office of the Clerk of the Agency and are available for review upon request.

Attention is directed to the provisions of Sections 1774, 1775, 1776, 1777.5, and 1777.6 of the State Labor Code. Sections 1774 and 1775 require the Contractor and all subcontractors to pay not less than the state prevailing wage rates to all workmen employed in the execution of the contract and specify forfeitures and penalties for failure to do so. The minimum state wage rates to be paid are those determined by the State Director of the Department of Industrial Relations. Section 1776 requires the Contractor and all Subcontractors to keep accurate payroll records, specifies the contents thereof, their inspection and duplication procedures, and certain notices required of the Contractor pertaining to their location.

Apprentices

Section 1777.5 requires the Contractor or Subcontractor employing tradesmen in any apprentice able occupation to apply to the Joint Apprenticeship Committee nearest the site of the public works project and which administers the apprenticeship program in that trade for a certificate of approval. The certificate will also fix the ratio of apprentices to journeymen to be used in the performance of the contract.

The Contractor is required to make contributions to funds established for the administration of apprenticeship programs if he employs registered apprentices or journeymen in any apprentice able trade and if other Contractors on the public works site are making such contributions.

Information relative to apprenticeship standards, contributions, wage schedules and other requirements may be obtained from the State Director of Industrial Relations or from the Division of Apprenticeship Standards.

Clayton Act and Cartwright Act

Section 4551 of the State Government Code specifies that in executing a public works contract with the Agency to supply goods, services or materials, the Contractor or Subcontractors offers and agrees to assign to the Agency all rights, title and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 commencing with Sec. 16700) of Part 2 of Division 7 of the Business and Professions Code, arising from purchase of goods, services or materials pursuant to the contract or subcontract. This assignment shall become effective when the Agency tenders final payment to the contractor without further acknowledgment by the parties.

CITY OF IMPERIAL

SPECIAL PROVISIONS

for
City of Imperial - Wastewater Treatment Plant Demolition Project
BID NO. 2025-19

MODIFICATIONS TO: STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

PART I - GENERAL PROVISIONS

SECTION 1 - TERMS, DEFINITIONS, ABBREVIATIONS AND SYMBOLS

1-2 DEFINITIONS.

City	- City of Imperial
Board	- City Council
Caltrans	- California Department of Transportation
County	- County of Imperial
Engineer	- City Engineer
Federal	- United States of America
State	- State of California

SECTION 2 - SCOPE AND CONTROL OF THE WORK

2-1 AWARD AND EXECUTION OF CONTRACT.

Is amended as follows:

Within ten (10) working days after the date of the Notice of Award, the Contractor shall execute and return the following contract documents to the Agency:

- ~ Contract Agreement
- ~ Faithful Performance Bond
- ~ Payment Bond
- ~ General Liability Endorsement
- ~ Automobile Liability Endorsement
- ~ Worker's Compensation/Employers Liability Endorsement

Failure to comply with the above will result in annulment of the award and forfeiture of the Proposal Guarantee.

The Contract Agreement shall not be considered binding upon the City until executed by the authorized City officials.

A corporation to which an award is made may be required, before the Contract Agreement is executed by the City, to furnish evidence of its corporate existence, of its right to enter into contracts in the State of California, and that the officers signing the contract and bonds for the corporation have the authority to do so.

2-4 CONTRACT BONDS.

add the following:

Both the Faithful Performance Bond and the Payment Bond shall each be for not less than one hundred percent (100%) of the total contract amount. The Payment Bond shall remain in force until thirty-five (35) days after the date of recordation of the Notice of Completion. The Faithful Performance Bond will not be released until one year after said date.

2-5 PLANS AND SPECIFICATIONS.

2-5.1 General.

the first paragraph is amended as follows:

The Contractor shall maintain a control set of Plans and Specifications on the project 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 the record conditions. Upon completion of all work, the Contractor shall return the control set to the Engineer. Final payment will not be made until this requirement is met.

2-9 SURVEYING

2-9.3 Survey Service.

Contractor shall be responsible for all construction staking and shall protect all existing survey monuments.

SECTION 3 - CHANGES IN WORK

3-2 CHANGES INITIATED BY THE AGENCY

3-2.1 General.

add the following:

The term "Contract Price" as specified herein shall serve to mean the total dollar value of the Contractor's original bid for all of the various items of work combined and shall not be construed to mean the subtotal shown for any singular item of work.

3-3 EXTRA WORK

3-3.2 Payment

3-3.2.3 Markup.

add the following as the first paragraph:

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 or equipment elsewhere except when actually performing work directly on the change order and then shall not be reported at the labor classification of the work performed.

SECTION 4 - CONTROL OF MATERIALS

4-1 **MATERIALS AND WORKMANSHIP**

4-1.4 **Test of Materials.**

add the following:

TESTING LABORATORY SERVICES

All tests which require the services of a laboratory to determine compliance with the Contract Documents shall be performed by an independent commercial testing laboratory acceptable to the Engineer, according to the City's Quality Assurance Program (QAP).

TESTING SERVICES FURNISHED BY CITY

The Contractor shall pay for all testing services for this project including soils testing, asbestos testing and lead testing as required.

TRANSMITTAL OF TEST REPORTS

Written reports of tests and engineering data furnished by Contractor for Engineer's review of materials and equipment proposed to be used in the Work shall be submitted as specified for Shop Drawings.

The testing laboratory retained by the Engineer will furnish three copies of a written report of each test performed by laboratory personnel. Two copies of each test report will be transmitted to the engineer and one copy to the Contractor within three working days after each test is completed.

SECTION 5 - UTILITIES

5-1 **LOCATION.**

add the following paragraph:

The Contractor shall notify the utilities designated in the General Specifications at least 48 hours in advance of excavating around any of their structures.

SECTION 6 - PROSECUTION, PROGRESS, AND ACCEPTANCE OF THE WORK

6-1 **CONSTRUCTION SCHEDULE AND COMMENCEMENT OF WORK.**

is amended as follows:

The Contractor's proposed Construction Schedule shall be submitted to the Engineer within ten (10) working days after the date of the Notice of Award of Contract. The schedule shall be supported by written statements from each supplier of materials or equipment indicating that all orders have been placed and acknowledged, and setting forth the dates that each item will be delivered.

Prior to issuing the Notice to Proceed, the Engineer will schedule a pre-construction meeting with the Contractor to review the proposed Construction Schedule and delivery dates, arrange the utility coordination, discuss construction methods, and clarify inspection procedures, including City's Quality Assurance Program, City Staff and/or City Consultants designated to the project, etc..

The Contractor shall submit periodic Progress Reports to the Engineer by the tenth day of each month. The report shall include an updated Construction Schedule. Any deviations from the original schedule shall be explained. Progress payments

will be withheld pending receipt of any outstanding reports.

6-7 TIME OF COMPLETION.

6-7.1 General.

add the following:

The time for completion shall be **110** Working days from the issuance date of the Notice to Proceed.

6-7.2 Working Day.

is amended as follows:

The Contractor's activities shall be confined to the hours between 7:00 AM and 6:00 PM, Monday through Friday, excluding holidays. Deviation from these hours will not be permitted without the prior consent of the Engineer, except in emergencies involving immediate hazard to persons or property.

In the event of either a requested or emergency deviation, inspection service fees will be charged against the Contractor. The service fees will be calculated at overtime rates including benefits, overhead, and travel time. The service fees will be deducted from any amounts due the Contractor.

6-9 LIQUIDATED DAMAGES.

the last sentence is amended as follows:

For each consecutive calendar day in excess of the time specified, as adjusted in accordance with Subsection 6-6, for completion of the work the Contractor shall pay to the Agency, or have withheld from monies due it, the sum of **\$2,000.00** per day.

SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR

7-1 CONTRACTOR'S EQUIPMENT AND FACILITIES.

add the following:

A noise level limit of 86 db at a distance of fifty feet (50') shall apply to all construction equipment on or related to the job whether owned by the Contractor or not. The use of excessively loud warning signals shall be avoided except in those cases required for the protection of personnel.

7-2 LABOR.

7-2.2 Laws.

add the following:

The Contractor, and all subcontractors, suppliers and vendors, shall comply with all Agency, State, and Federal orders regarding affirmative action to ensure equal employment opportunities and fair employment practices. Failure to file any report due under said orders will result in suspension of periodic progress payments.

The Contractor shall ensure unlimited access to the job site for all equal employment opportunity compliance officers.

7-3 LIABILITY INSURANCE.

the entire Subsection is amended as follows:

7-3.1 Indemnification. The Contractor shall indemnify and save harmless the CITY OF IMPERIAL and the County of Imperial from all claims or suits for damages arising from his prosecution of the contract work, as more fully described in Subsection 7-3.2 "Contractor's Liability".

The Contractor shall maintain during the life of the contract a protective liability policy. The policy shall provide for not less than the following amounts;

Bodily Injury	\$1,000,000	each person
	\$2,000,000	each accident
	\$2,000,000	aggregate products and completed operations
Property Damage	\$ 500,000	each accident
		Worker's Compensation Statutory

All liability insurance policies shall bear an endorsement or shall have attached a rider whereby it is provided that, in the event of expiration or proposed cancellation of such policies for any reason whatsoever, the Agency shall be notified by registered mail, return receipt requested, giving a sufficient time before the date thereof to comply with any applicable law or statute, but in no event less than 30 days before expiration or cancellation is effective. The following statement shall be included on the insurance certificate:

"Additional Insured: The insurer agrees that the City and its City Council, and/or all City Council appointed groups, committees, boards and any other City Council appointed body, and/or elective and appointive officers, servants or employees of the City when acting as such are additional insured hereunder, for the acts of the insured, and such insurance shall be primary to any insurance of the City."

The Contractor agrees to protect, defend and indemnify the CITY OF IMPERIAL against loss, damage or expense by reason of any suit, claims, demands, judgments and causes of action caused by the Contractor, his employees, agents or any subcontractor or by any third party arising out of or in consequence of the performance of all or any operations covered by the Certificate of Insurance. The Contractor, at his option, may include such coverage under his Public Liability coverage.

7-3.2 Contractor's Liability.

The CITY OF IMPERIAL, its City Council, or the Engineer shall not be answerable or accountable in any manner, for any loss or damage that may happen to the work or any part thereof; or for any of the materials or other things used or employed in performing the work; or for injury to any person or persons, either workmen or the public; or for damage to adjoining property from any cause which might have been prevented by the Contractor, or his workmen, or any one employed by him; against all of which injuries or damages to persons and property the Contractor having control over such work must properly guard. The Contractor shall be responsible for any damage to any person or property resulting from defects or obstructions at any time before its completion and final acceptance, and shall indemnify and save harmless the CITY OF IMPERIAL, its City Council, and the Engineer from all suits or actions of every name and description, brought for, or on account of, any injuries or damages received or sustained by any person or

persons, or by the Contractor, his servants or agents, in the construction of the work or by or in consequence of any negligence in guarding the same, in improper materials used in its construction, or by or on account of any act or omission of the Contractor or his agents, and so much of the money due the Contractor under and by virtue of the Contract as shall be considered necessary by the City may be retained by the City until disposition has been made of such suits or claims for damages aforesaid.

If, in the opinion of the Engineer, the precautions taken by the Contractor are not safe or adequate at any time during the life of the Contract, he may order the Contractor to take further precautions, and if the Contractor shall fail to do so, the Engineer may order the work done by others and charge the Contractor for the cost thereof, such cost to be deducted from any moneys due or becoming due the Contractor. Failure of the Engineer to order such additional precautions, however, shall not relieve the Contractor from his full responsibility for public safety.

7-5 PERMITS.

the first sentence is amended as follows:

Prior to the start of any work, including “pot holes” and excavation to determine depth of existing underground utilities, the Contractor shall take out the applicable Agencies’ permits and make arrangements for Agencies inspections, i.e. County of Imperial, City of Imperial, Imperial Irrigation District. The Contractor and all subcontractors shall each obtain any and all other permits, licenses, inspections, certificates, or authorizations required by any governing body or public utility. The City of Imperial will reimburse the permit fees paid by Contractor to said agencies or public utilities. The City will waive the City’s usual encroachment permit fees.

7-10 PUBLIC CONVENIENCE AND SAFETY.

7-10.1 Traffic and Access.

add the following:

When entering or leaving roadways carrying public traffic, the Contractor's equipment, whether empty or loaded, shall in all cases yield to public traffic.

The Contractor shall notify all affected property owners of the proposed schedule a minimum of 48 hours, but not more than 72 hours, in advance of any limitation or closure of access to their property. Form of said notice shall be as approved by the Engineer and shall contain the date and time of the closure. In the event of delay, whether beyond the control of the Contractor or not, the Contractor shall notify all affected property owners as to the extent of the delay and his revised schedule. In the event of delay over 72 hours, the Contractor shall re-notify the property owners as described above.

The Contractor shall notify the following public agencies –but not limited to: California Highway Patrol, County Fire Department, County Sheriff, Imperial County Department of Public Works, Imperial County Airport, Imperial Valley College, other, of the proposed project schedule, a minimum of 48 hours, but

not more than 72 hours, in advance of any access limitation, detour or closure of the project site.

Payment for notification and coordination as per Section 7-10 as modified herein shall be included in the compensation paid for the various items of work and no additional compensation will be allowed.

7-10.2 Storage of Equipment and Materials in Public Streets.

add the following:

The Contractor shall assume full responsibility for any damage caused by stockpiling and shall repair same at his expense. The Contractor shall also be responsible for providing traffic control as required to protect the public from hazards caused by stockpiling within the right of way. Payment for the above, if any, will be deemed as included in the items of work and no additional compensation will be allowed.

The Contractor may, at his own expense, maintain and operate a work and storage area outside of the public right-of-way.

In such case the Contractor shall submit to Agency written authorization from the owners of the subject property prior to occupation. Occupation of site without written authorization shall be grounds for immediate suspension of work.

Location of site to be approved by Agency. Condition and operation of yard shall conform to these specifications. The Contractor shall assume full responsibility for all damage to the site resulting from his operations and shall repair and/or replace same, at his own expense, to the satisfaction of the owner of the subject property. The Contractor shall vacate site and return it to pre-project condition within five (5) working days following application for Notice of Completion. The Contractor shall obtain a written release from the property owner accepting the condition of the vacated site and releasing the Contractor from any further clean-up or restoration work and shall submit a copy of such release to Agency. The Notice of Completion will not be issued until said release is submitted.

7-10.3 Street Closures, Detours, and Barricades.

add the following:

The Contractor shall maintain the minimum traffic requirements designated in the General Specifications. It shall be the Contractor's responsibility to furnish a detailed detour signing and barricade plan for Agency approval.

The Contractor shall be responsible for providing temporary access to all driveways at the end of each workday.

The Contractor shall provide and maintain all other signs, barricades, pedestals, flashers, delineators and other necessary facilities for the protection of the public within the limits of the construction area. He shall also post proper signs to notify the public regarding detours and the condition of the roadway, all in accordance with the provisions of the Vehicle

Code and the current State of California Department of Transportation Manual of Warning Signs, Lights and Devices for Use in Performance of Work Upon Highways.

The Contractor shall furnish competent flagmen as are necessary to give adequate warning to traffic or to the public of any dangerous conditions to be encountered. Flagmen, while on duty and assigned to give warnings to the public of construction and of any dangerous conditions to be encountered as a result thereof, shall perform their duties and shall be provided with the necessary equipment in accordance with the current "Instructions to Flagmen," of the Department of Transportation. The equipment shall be furnished and kept clean and in good repair by the Contractor, at his expense.

Should the Contractor appear to be neglectful or negligent in furnishing warning and protective measures as provided, the Engineer may direct attention to the existence of a hazard and the necessary warning and protective measures shall be furnished and installed by the Contractor at his expense. Should the Engineer point out the inadequacy of warning and protective measures, such action on the part of the Engineer shall not relieve the Contractor from responsibility for public safety or abrogate his obligation to furnish any pay for these devices.

The Contractor shall distribute notices to all affected residents and businesses at the stated minimum time prior to the start of work:

Excavations and miscellaneous repairs – 36 hours

The Contractor shall notify the following entities at least forty-eight (48) hours in advance of any street closure, detour or restriction to access:

1. City Engineer at 760-355-1152
2. Fire Department at 760-355-1191
3. Imperial Police Dept. at 760-355-4327
4. Imperial County Sheriff's Dept. 760-482-6301
5. Imperial County Public Works Dept. 442-265-1818
5. Imperial County Airport. 442-265-3220

Full compensation for conforming to this article shall be considered as included in the various items of work involved, and no additional compensation will be allowed therefore.

7-10.4 Safety.

7-10.4.1

Safety Orders.
add the following:

CONSTRUCTION SAFETY ORDERS

The Construction Safety orders of the State of California, Department of Industrial Relations, effective November 15, 1975, and as amended, shall be applicable to the work in this contract. The Contractor's special attention is directed to:

Article 6

Excavations, Trenches and Earthwork

****Article 11****

Traffic Control, Flagmen, Barriers and Warning signs; and

****Article 28 ****

Miscellaneous Construction Equipment prior to the start of work, the Contractor will be required to obtain a permit from the Office of the Division of Occupational Safety and Health. The office serving the Imperial area is at 7807 Convoy court, Suite 140, San Diego, California 92111, Telephone Number; (619) 637-5534.

The Contractor shall provide the City Engineer's office with a copy of the permit prior to the start of excavation, and the permit shall be maintained on the job site at any timework requiring trenching or shoring operations exist.

Where excavation of any trench 5 feet or more in depth is required, the Contractor shall submit to the City Engineer for approval, in writing, two weeks in advance of excavations, a detailed plan showing the design of shoring bracing, sloping, protection of existing utilities, or other provisions to be made for worker protection from the hazard of caving ground during the excavation of such trench. If such plan varies from shoring system standards established by the Construction Safety Order. The plan shall be prepared by a Registered Civil or Structural Engineer.

Copies of said regulations are available from the documents Section, P.O. box 20191, Sacramento, California 95820. The cost of furnishing labor, tools, equipment, services and items required thereby shall be borne by the Contractor as part of this contract work and he shall not be entitled to additional compensation for compliance with said regulations.

7-15 PAYROLL RECORDS.

add the following paragraph:

Payroll records shall be submitted to the Agency by the tenth day of each month. Progress payments will be withheld pending receipt of any outstanding reports.

SECTION 9 - MEASUREMENT AND PAYMENT

9-3 PAYMENT.

9-3.2

Partial and Final Payment.

the last paragraph is amended as follows:

The closure date for periodic progress payments will be five (5) working days prior to the first Monday of each month.

The final progress payment will not be released until the Contractor returns the control set of Plans and Specifications showing the as-built conditions.

The full five percent (5%) retention will be deducted from all payments. The final retention will be authorized for payment thirty-five (35) days after the date of recordation of the Notice of Completion.

In conformance with the Public Contracts Code, Section 22300, the Contractor may substitute securities for any monies withheld by the Agency to secure performance under the contract.

At the request and expense of the Contractor, securities equivalent to the amount withheld shall be deposited with the Agency or with a State or Federally chartered bank as the escrow agent who shall pay such monies to the Contractor upon notification by Agency of Contractor's satisfactory completion of the contract. Actual pay quantity measurements will be done at the end of each working day and agreed upon by both the Contractor and the Engineer's representative.

The type of securities deposited and the method of release shall be approved by the City Attorney's office.

9-3.3 Delivered Materials.

is amended as follows:

Materials and equipment delivered but not incorporated into the work will not be included in the estimate for progress payment, subject to the discretion of the City Engineer.

9-3.4 Dewatering.

is amended as follows:

The Contractor may encounter groundwater or water from other sources during excavation. The Contractor shall provide and maintain at all times during construction, ample means and devices with which to promptly remove and properly dispose of all water from any source entering the excavations or other parts of the work. Dewatering shall be accomplished by methods, which will ensure a dry excavation and preservation of the final lines and grades of the bottoms of excavations.

Dewatering shall commence when groundwater is first encountered, and shall be continuous until such times as water can be allowed to rise in accordance with the provisions of this section or other requirements.

Disposal of watering from dewatering operations shall be the sole responsibility of the Contractor. Disposal methods shall conform to the Porter-Cologne Water quality control Act, 1974, the Federal Water Pollution Control Act Amendment of 1972; and the California Administrative code, Title 23, Chapter 3.

The Contractor shall dispose of the water from the work in a suitable manner without damage to adjacent property. Conveyance of the water shall be such as to not interfere with traffic flow or other construction. No water shall be drained into work built or under construction without prior consent of the City Engineer.

Water shall be desanded before disposal in any storm drain system. The system used for desanding the water shall be a baffled structure and shall provide not less than five minutes detention time and shall have a "flow-through" velocity not exceeding 0.2 feet per second at the anticipated peak flow. The desanding box shall be cleaned as required to maintain the detention time and flow-through limitations specified above.

9-3.5 Mobilization.

is amended as follows:

Mobilization shall consist of preparatory work and operations, including but not limited to those necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; for the establishment of all offices, buildings and other facilities necessary for the work on this project; and for all work and operations which must be performed or cost incurred prior to beginning work on the various contract items on the project site. Mobilization shall also include establishing a staging area as required, providing electrical power as required, payment bond costs, performance bond costs, insurance costs, providing a potable water supply to the project site, providing night lighting as required, providing temporary restroom facilities, meeting attendance and administrative item costs for involvement with payment requests, change orders, request for information forms and similar administrative items.

The compensation paid for mobilization shall be paid as a lump sum item included on the **BID PROPOSAL**.

PART II – CONSTRUCTION MATERIALS

All CONSTRUCTION MATERIALS AND CONSTRUCTION METHODS shall be according to the latest edition of the "Standard Specifications for Public Works Construction" Greenbook, Specifications and according to the CONSTRUCTION PROJECT PLANS called for in APPENDIX C.

PART III - CONSTRUCTION METHODS

All CONSTRUCTION MATERIALS AND CONSTRUCTION METHODS shall be according to the latest edition of the "Standard Specifications for Public Works Construction" Greenbook, Specifications and according to the CONSTRUCTION PROJECT PLANS called for in APPENDIX C.

Miscellaneous Provisions

TRAFFIC CONTROL

All traffic control for the project shall be in accordance with the Special Provisions and the latest edition of the California Manual on Uniform Traffic Control Devices (California MUTCD) and the latest edition of the "Construction Area Traffic Control Devices" of CALTRANS Standard Specifications.

SUBMITTALS

The Contractor shall submit eight (8) copies of the following shop drawings to the Engineer for review and approval at least ten (10) days before drawings will be required for ordering materials and commencing the work. Each shop drawing and sample submission shall bear a stamp or specific written indication that the Contractor has satisfied the Contractor's review and approval of that submission. The Contractor shall provide specific written notice of any variations that the shop drawings may have from the requirements of the Contract Documents.

Within 8 calendar days of receipt of shop drawings, the Engineer will return two (2) copies of each drawing to the Contractor with his comments thereon. If so indicated, the Contractor shall make corrections required by the Engineer and shall return the required number of corrected copies of Shop Drawings and submit as required new samples for review and approval. The Engineer's review and approval of Shop Drawings or samples shall not relieve the Contractor from responsibility for any variation from the requirements of the Contract Documents. Shop drawings shall be submitted but not limited to the following items:

- A. Submittal Documents as contained in the Technical Specifications.

PRESERVATION OF MONUMENTATION

The Contractor shall be responsible for protecting all existing horizontal and vertical survey controls, monuments, ties and benchmarks located within the limits of the project. If any of the above require any removal, relocating or resetting, the Contractor shall, prior to any construction work and under the supervision of a California-licensed surveyor or pre-1972 licensed civil engineer, establish sufficient temporary ties and bench marks to enable the points to be reset by the Contractor after completion of construction.

Any ties, monuments and bench marks disturbed during construction shall be reset after construction per City of Imperial or County of Imperial standards, as applicable, and the tie notes submitted to the City of Imperial or County of Imperial on 8-1/2" x 11" note paper. The Contractor and its sureties shall be liable for, at its expense, any resurvey required due to its negligence in protecting existing ties, monuments, bench marks or any such horizontal and vertical controls.

The Contractor shall comply with The Land Surveyors Acts #9771 (Record of Surveys-Monumentation) and #8773 (Corner Records-Records of Survey for "Lost Corners").

NOTES

Appendix A has been prepared by the City's Projects Manager / Consultant, as certified below, for the:

City of Imperial - Wastewater Treatment Plant Demolition Project
BID NO. 2025-19

Appendix A
California State General Prevailing Wage Rates

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: 2025-2

Issue Date: 08-22-2025

Expire Date: 07-05-2026 *

Craft/Classification: Asbestos Worker, Heat and Frost Insulator

Counties: Imperial, Inyo, Kern, Los Angeles, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	12	N/A	\$32.110	\$10.390	\$0.000	\$0.000	\$2.140	\$0.000	\$44.640
2	12	N/A	\$35.380	\$10.550	\$0.000	\$0.000	\$2.140	\$0.000	\$48.070
3	12	N/A	\$38.620	\$11.330	\$7.120	\$0.000	\$2.140	\$0.000	\$59.210
4	12	N/A	\$45.170	\$11.490	\$7.120	\$0.000	\$2.140	\$0.000	\$65.920
5	12	N/A	\$51.710	\$11.800	\$7.120	\$0.000	\$2.140	\$0.000	\$72.770

FOOTNOTE(S)

BHR -- includes dues amount, which shall be deducted from the wages of all workers covered by this agreement at 5.5% of the total taxable wage.

Health & Welfare -- includes amount for Occupational Health and Research Plan.

*NO PREDETERMINED INCREASES:

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: 2025-2

Issue Date: 02-22-2025

Expire Date: 12-31-2025 **

Craft/Classification: Boilermaker- Blacksmith

Indentured/Other: 2 Indentured on/after 4/11/18

Counties: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	1,000	\$37.930	\$0.000	\$0.760	\$0.000	\$4.400	\$1.340	\$44.430
2	6	1,000	\$39.770	\$0.000	\$0.760	\$0.000	\$4.400	\$1.340	\$46.270
3	6	1,000	\$45.890	\$8.570	\$23.490	\$6.000	\$4.400	\$1.340	\$89.690
4	6	1,000	\$48.940	\$8.570	\$23.490	\$6.000	\$4.400	\$1.340	\$92.740
5	12	1,000	\$52.000	\$8.570	\$23.490	\$6.000	\$4.400	\$1.340	\$95.800
6	12	1,000	\$55.060	\$8.570	\$23.490	\$6.000	\$4.400	\$1.340	\$98.860

FOOTNOTE(S)

Pension -- includes amount for Annuity Trust Fund.

Other -- includes amount for MOST Fund and WSBIF.

** JOURNEYMAN PREDETERMINED INCREASES:

Eff. 1/1/2026 - an increase of \$3.00 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 e-mail a request to statistics@dir.ca.gov 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: 2025-2

Issue Date: 02-22-2025

Expire Date: 12-31-2025 **

Craft/Classification: Boilermaker- Blacksmith

Indentured/Other: Area 1

Counties: Imperial, Inyo, Kern, Los Angeles, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	1,000	\$34.090	\$0.000	\$.760	\$.000	\$3.900	\$1.340	\$40.090
2	6	1,000	\$35.740	\$0.000	\$.760	\$.000	\$3.900	\$1.340	\$41.740
3	6	1,000	\$41.240	\$8.570	\$20.640	\$9.000	\$3.900	\$1.340	\$84.690
4	6	1,000	\$43.980	\$8.570	\$20.640	\$9.000	\$3.900	\$1.340	\$87.430
5	6	1,000	\$46.730	\$8.570	\$20.640	\$9.000	\$3.900	\$1.340	\$90.180
6	6	1,000	\$49.480	\$8.570	\$20.640	\$9.000	\$3.900	\$1.340	\$92.930

FOOTNOTE(S)

Applies to the portion of San Luis Obispo County that is within a 25-mile radius of the city of Santa Maria

Pension -- includes amount for Annuity Trust Fund.

Other -- includes amount for MOST Fund and WSBIF.

** JOURNEYMAN PREDETERMINED INCREASES:

Eff. 1/1/2026 - an increase of \$3.00 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 e-mail a request to statistics@dir.ca.gov or send to the following address:

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Determination: 2025-2

Issue Date: 02-22-2025

Expire Date: 12-31-2025 **

Craft/Classification: Boilermaker- Blacksmith

Indentured/Other: 3 Indentured on/after 4/11/18

Counties: Alpine, Amador, Butte, Calaveras, Colusa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera,

Mariposa, Mendocino, Merced, Modoc, Mono, Monterey, Nevada, Placer, Plumas, Sacramento, San Benito, San Joaquin, San Luis Obispo, Santa Cruz, Shasta, Sierra, Siskiyou, 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	1,000	\$34.870	\$0.000	\$0.760	\$0.000	\$4.400	\$1.340	\$41.370
2	6	1,000	\$36.560	\$0.000	\$0.760	\$0.000	\$4.400	\$1.340	\$43.060
3	6	1,000	\$42.180	\$8.570	\$21.630	\$5.500	\$4.400	\$1.340	\$83.620
4	6	1,000	\$44.990	\$8.570	\$21.630	\$5.500	\$4.400	\$1.340	\$86.430
5	6	1,000	\$47.800	\$8.570	\$21.630	\$5.500	\$4.400	\$1.340	\$89.240
6	6	1,000	\$50.620	\$8.570	\$21.630	\$5.500	\$4.400	\$1.340	\$92.060

FOOTNOTE(S)

Applies to the portion of San Luis Obispo County that is outside a 25-mile radius of the city of Santa Maria

Pension -- includes amount for Annuity Trust Fund.

Other -- includes amount for MOST Fund and WSBIF.

****JOURNEYMAN PREDETERMINED INCREASES:**

Eff. 1/1/2026 - an increase of \$3.00 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 e-mail a request to statistics@dir.ca.gov 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: 2025-2

Expire Date: 12-31-2025 **

Indentured/Other: 2 Indentured before 4/11/18

Issue Date: 02-22-2025

Craft/Classification: Boilermaker- Blacksmith

Counties: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	1,000	\$42.830	\$0.000	\$0.760	\$0.000	\$4.400	\$1.340	\$49.330
2	6	1,000	\$45.890	\$8.570	\$23.490	\$6.000	\$4.400	\$1.340	\$89.690
3	6	1,000	\$48.950	\$8.570	\$23.490	\$6.000	\$4.400	\$1.340	\$92.750
4	6	1,000	\$52.000	\$8.570	\$23.490	\$6.000	\$4.400	\$1.340	\$95.800
5	12	1,000	\$55.060	\$8.570	\$23.490	\$6.000	\$4.400	\$1.340	\$98.860
6	12	1,000	\$58.120	\$8.570	\$23.490	\$6.000	\$4.400	\$1.340	\$101.920

FOOTNOTE(S)

Pension -- includes amount for Annuity Trust Fund.

Other -- includes amount for MOST Fund and WSBIF.

** JOURNEYMAN PREDETERMINED INCREASES:

Eff. 1/1/2026 - an increase of \$3.00 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 e-mail a request to statistics@dir.ca.gov 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: 2025-2

Expire Date: 12-31-2025 **

Indentured/Other: 3 Indentured before 4/11/18

Issue Date: 02-22-2025

Craft/Classification: Boilermaker- Blacksmith

Counties: Alpine, Amador, Butte, Calaveras, Colusa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kings, Lake, Lassen, Madera, Mariposa, Mendocino, Merced, Modoc, Mono, Monterey, Nevada, Placer, Plumas, Sacramento, San Benito, San Joaquin, San Luis Obispo, Santa Cruz, Shasta, Sierra, Siskiyou, 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	1,000	\$39.370	\$0.000	\$.760	\$0.000	\$4.400	\$1.340	\$45.870
2	6	1,000	\$42.180	\$8.570	\$21.630	\$5.500	\$4.400	\$1.340	\$83.620
3	6	1,000	\$44.990	\$8.570	\$21.630	\$5.500	\$4.400	\$1.340	\$86.430
4	6	1,000	\$47.800	\$8.570	\$21.630	\$5.500	\$4.400	\$1.340	\$89.240
5	6	1,000	\$50.620	\$8.570	\$21.630	\$5.500	\$4.400	\$1.340	\$92.060
6	6	1,000	\$53.430	\$8.570	\$21.630	\$5.500	\$4.400	\$1.340	\$94.870

FOOTNOTE(S)

Applies to the portion of San Luis Obispo County that is outside a 25-mile radius of the city of Santa Maria

Pension -- includes amount for Annuity Trust Fund.

Other -- includes amount for MOST Fund and WSBIF.

****JOURNEYMAN PREDETERMINED INCREASES:**

Eff. 1/1/2026 - an increase of \$3.00 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 e-mail a request to statistics@dir.ca.gov 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

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Determination: 2025-2

Issue Date: 02-22-2025

Expire Date: 10-31-2025 **

Craft/Classification: Bricklayer

Indentured/Other: Imperial

Counties: Imperial

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	N/A	\$29.410	\$9.250	\$6.610	\$0.000	\$0.960	\$0.100	\$46.330
2	6	N/A	\$32.350	\$9.250	\$6.610	\$0.000	\$0.990	\$0.100	\$49.300
3	6	N/A	\$35.290	\$9.250	\$6.610	\$0.000	\$1.020	\$0.100	\$52.270
4	6	N/A	\$41.170	\$9.250	\$6.610	\$0.000	\$1.080	\$0.100	\$58.210
5	6	N/A	\$44.110	\$9.250	\$8.110	\$0.000	\$1.130	\$0.100	\$62.700
6	6	N/A	\$49.990	\$9.250	\$8.110	\$0.000	\$1.190	\$0.100	\$68.640
7	6	N/A	\$55.870	\$9.250	\$8.110	\$0.000	\$1.250	\$0.100	\$74.580

FOOTNOTE(S)

Basic Hourly Rate - Includes an amount withheld for working dues and Contract Compliance.

Training - Includes an amount for the International Masonry Institute.

Other - Includes amount for Industry Fund.

****JOURNEYMAN PREDETERMINED INCREASES:**

Effective 11/1/2025, there will be a \$2.20 increase to be 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

Determination: 2025-2

Issue Date: 02-22-2025

Expire Date: 10-31-2025 *

Craft/Classification: Bricklayer

Indentured/Other: Imperial- Mason Finisher

Counties: Imperial

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	N/A	\$22.510	\$9.250	\$2.610	\$0.000	\$0.350	\$0.000	\$34.720
2	6	N/A	\$27.010	\$9.250	\$2.610	\$0.000	\$0.390	\$0.000	\$39.260
3	6	N/A	\$31.510	\$9.250	\$2.610	\$0.000	\$0.440	\$0.000	\$43.810
4	6	N/A	\$36.020	\$9.250	\$2.610	\$0.000	\$0.480	\$0.000	\$48.360

FOOTNOTE(S)

Basic Hourly Rate - Includes an amount withheld for working dues and Contract Compliance.

Training - Includes an amount for the International Masonry Institute.

Other - Includes amount for Industry Fund.

* No predetermined increases.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 *

Craft/Classification: Bricktender

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	500	\$21.720	\$6.690	\$2.560	\$3.080	\$.800	\$.450	\$35.300
2	N/A	500	\$23.890	\$6.690	\$2.560	\$3.080	\$.800	\$.450	\$37.470
3	N/A	500	\$26.060	\$6.690	\$2.560	\$3.080	\$.800	\$.450	\$39.640
4	N/A	500	\$30.400	\$6.690	\$2.560	\$3.080	\$.800	\$.450	\$43.980
5	N/A	500	\$34.740	\$6.690	\$2.560	\$3.080	\$.800	\$.450	\$48.320
6	N/A	500	\$36.920	\$6.690	\$2.560	\$3.080	\$.800	\$.450	\$50.500

FOOTNOTE(S)

Pension: Includes an amount (\$0.75) per hour worked for annuity.

Vacation/Holiday: Includes an amount (\$1.21) per hour worked for supplemental dues.

Other: Includes contributions for Center for Contract Compliance (\$0.26), Industry Fund (\$0.13), and Laborers Trusts' Administrative Trust Fund (\$0.06).

*No Predetermined Increases

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 *

Craft/Classification: Carpenter

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	1,000	\$21.450	\$5.500	\$0.000	\$8.460	\$0.770	\$2.940	\$39.120
2	N/A	600	\$26.120	\$5.500	\$0.000	\$8.460	\$0.770	\$2.940	\$43.790
3	N/A	600	\$31.340	\$9.500	\$0.000	\$8.460	\$0.770	\$3.940	\$54.010
4	N/A	600	\$33.960	\$9.500	\$2.500	\$7.460	\$0.770	\$4.940	\$59.130
5	N/A	600	\$36.570	\$9.500	\$3.500	\$7.460	\$0.770	\$4.940	\$62.740
6	N/A	600	\$39.180	\$9.500	\$3.500	\$7.460	\$0.770	\$4.940	\$65.350
7	N/A	600	\$41.790	\$9.500	\$4.500	\$7.460	\$0.770	\$4.940	\$68.960
8	N/A	600	\$47.020	\$9.500	\$4.500	\$7.460	\$0.770	\$4.940	\$74.190

FOOTNOTE(S)

Vacation--Includes an amount for Supplemental Dues.

Other-- Includes an amount for Contract Administration, Cooperation Committee, Grievance, Partnership for Jobs, and Industry Advancement Fund. For Periods 1-2, includes \$2.50 for Annuity; Period 3, \$3.50 for Annuity; Periods 4-8, \$4.50 for Annuity.

*No predetermined increases.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 *

Craft/Classification: Bridge Carpenter

Indentured/Other: Bridge Carpenter

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	1,000	\$21.450	\$5.500	\$0.000	\$8.460	\$0.770	\$2.940	\$39.120
2	N/A	600	\$26.190	\$5.500	\$0.000	\$8.460	\$0.770	\$2.940	\$43.860
3	N/A	600	\$31.420	\$9.500	\$0.000	\$8.460	\$0.770	\$3.940	\$54.090
4	N/A	600	\$34.040	\$9.500	\$2.500	\$7.460	\$0.770	\$4.940	\$59.210
5	N/A	600	\$36.660	\$9.500	\$3.500	\$7.460	\$0.770	\$4.940	\$62.830
6	N/A	600	\$39.280	\$9.500	\$3.500	\$7.460	\$0.770	\$4.940	\$65.450
7	N/A	600	\$41.900	\$9.500	\$4.500	\$7.460	\$0.770	\$4.940	\$69.070
8	N/A	600	\$47.130	\$9.500	\$4.500	\$7.460	\$0.770	\$4.940	\$74.300

FOOTNOTE(S)

Vacation & Holiday--Includes an amount for Supplemental Dues.

Other-- Includes an amount for Contract Administration, Cooperation Committee, Grievance, Partnership for Jobs, and Industry Advancement Fund. For Periods 1-2, includes \$2.50 for Annuity; Period 3, \$3.50 for Annuity; Periods 4-8, \$4.50 for Annuity.

*No predetermined increases.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 *

Craft/Classification: Acoustical Installer
(Carpenter)

Indentured/Other: Acoustical Installer

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	1,000	\$21.450	\$5.500	\$0.000	\$8.460	\$0.770	\$3.120	\$39.300
2	N/A	1,000	\$26.120	\$5.500	\$0.000	\$8.460	\$0.770	\$3.120	\$43.970
3	N/A	1,000	\$31.340	\$9.500	\$0.000	\$8.460	\$0.770	\$4.120	\$54.190
4	N/A	1,000	\$33.960	\$9.500	\$2.500	\$7.460	\$0.770	\$5.120	\$59.310
5	N/A	1,000	\$36.570	\$9.500	\$3.500	\$7.460	\$0.770	\$5.120	\$62.920
6	N/A	700	\$39.180	\$9.500	\$3.500	\$7.460	\$0.770	\$5.120	\$65.530
7	N/A	700	\$41.790	\$9.500	\$4.500	\$7.460	\$0.770	\$5.120	\$69.140
8	N/A	600	\$47.020	\$9.500	\$4.500	\$7.460	\$0.770	\$5.120	\$74.370

FOOTNOTE(S)

Vacation & Holiday: Includes an amount for supplemental dues.

Other-- Cooperation Committee, Industry Advancement Fund, Grievance, Partnership for Jobs, Contract Administration, and Acoustic Industry Advancement Fund. For Periods 1-2, includes \$2.50 for Annuity; Period 3, \$3.50 for Annuity; Periods 4-8, \$4.50 for Annuity.

*No predetermined increases.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 *

Craft/Classification: Hardwood Floor Layer (Carpenter)

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	1,000	\$21.450	\$5.500	\$0.000	\$8.460	\$0.770	\$2.940	\$39.120
2	N/A	600	\$26.120	\$5.500	\$0.000	\$8.460	\$0.770	\$2.940	\$43.790
3	N/A	600	\$31.340	\$9.500	\$0.000	\$8.460	\$0.770	\$3.940	\$54.010
4	N/A	600	\$33.960	\$9.500	\$2.500	\$7.460	\$0.770	\$4.940	\$59.130
5	N/A	600	\$36.570	\$9.500	\$3.500	\$7.460	\$0.770	\$4.940	\$62.740
6	N/A	600	\$39.180	\$9.500	\$3.500	\$7.460	\$0.770	\$4.940	\$65.350
7	N/A	600	\$41.790	\$9.500	\$4.500	\$7.460	\$0.770	\$4.940	\$68.960
8	N/A	600	\$47.020	\$9.500	\$4.500	\$7.460	\$0.770	\$4.940	\$74.190

FOOTNOTE(S)

Vacation and holiday--Includes an amount for Supplemental Dues.

Other-- Includes an amount for Contract Administration, Cooperation Committee, Grievance, Partnership for Jobs, and Industry Advancement Fund. For Periods 1-2, includes \$2.50 for Annuity; Period 3, \$3.50 for Annuity; Periods 4-8, \$4.50 for Annuity.

*No predetermined increases.

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: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 *

Craft/Classification: Insulation Installer (Carpenter)

Indentured/Other: Insulation Installer

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	1,000	\$21.450	\$5.500	\$0.000	\$8.460	\$0.770	\$2.940	\$39.120
2	N/A	1,000	\$26.120	\$5.500	\$0.000	\$8.460	\$0.770	\$2.940	\$43.790
3	N/A	1,000	\$31.340	\$9.500	\$0.000	\$8.460	\$0.770	\$3.940	\$54.010
4	N/A	800	\$33.960	\$9.500	\$2.500	\$7.460	\$0.770	\$4.940	\$59.130
5	N/A	800	\$36.570	\$9.500	\$3.500	\$7.460	\$0.770	\$4.940	\$62.740
6	N/A	600	\$39.180	\$9.500	\$3.500	\$7.460	\$0.770	\$4.940	\$65.350
7	N/A	600	\$41.790	\$9.500	\$4.500	\$7.460	\$0.770	\$4.940	\$68.960
8	N/A	600	\$47.020	\$9.500	\$4.500	\$7.460	\$0.770	\$4.940	\$74.190

FOOTNOTE(S)

Vacation & Holiday--Includes an amount for Supplemental Dues.

Other-- Includes an amount for Cooperation Committee, Industry Advancement Fund, Grievance, Partnership for Jobs, and Contract Administration. For Periods 1-2, includes \$2.50 for Annuity; Period 3, \$3.50 for Annuity; Periods 4-8, \$4.50 for Annuity.

*No predetermined increases.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 *

Craft/Classification: Shingler (Carpenter)

Indentured/Other: Shingler

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	1,000	\$21.450	\$5.500	\$0.000	\$8.460	\$0.770	\$2.940	\$39.120
2	N/A	600	\$26.190	\$5.500	\$0.000	\$8.460	\$0.770	\$2.940	\$43.860
3	N/A	600	\$31.420	\$9.500	\$0.000	\$8.460	\$0.770	\$3.940	\$54.090
4	N/A	600	\$34.040	\$9.500	\$2.500	\$7.460	\$0.770	\$4.940	\$59.210
5	N/A	600	\$36.660	\$9.500	\$3.500	\$7.460	\$0.770	\$4.940	\$62.830
6	N/A	600	\$39.280	\$9.500	\$3.500	\$7.460	\$0.770	\$4.940	\$65.450
7	N/A	600	\$41.900	\$9.500	\$4.500	\$7.460	\$0.770	\$4.940	\$69.070
8	N/A	600	\$47.130	\$9.500	\$4.500	\$7.460	\$0.770	\$4.940	\$74.300

FOOTNOTE(S)

Vacation & Holiday--Includes an amount for Supplemental Dues

Other--Includes an amount for Contract Administration, Cooperation Committee, Grievance, Partnership for Jobs & Industry Advancement. For Periods 1-2, includes \$2.50 Annuity, Period 3, \$3.50 Annuity, Periods 4-8, \$4.50 Annuity.

*No predetermined increases.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 02-22-2025

Expire Date: 06-30-2025 *

Craft/Classification: Modular Furniture Installer (Carpenter)

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	600	\$21.450	\$6.960	\$0.000	\$3.100	\$0.100	\$0.030	\$31.640
2	6	600	\$21.450	\$6.960	\$0.000	\$3.100	\$0.100	\$0.030	\$31.640
3	6	600	\$21.450	\$6.960	\$0.000	\$3.100	\$0.100	\$0.030	\$31.640
4	6	600	\$21.450	\$6.960	\$0.000	\$3.100	\$0.100	\$0.030	\$31.640
5	6	600	\$21.620	\$6.960	\$2.500	\$3.100	\$0.100	\$0.030	\$34.310
6	6	600	\$22.090	\$6.960	\$2.500	\$3.100	\$0.100	\$0.030	\$34.780

FOOTNOTE(S)

Vacation includes \$0.85 for Supplemental Dues.

*No Predetermined Increases

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 *

Craft/Classification: Scaffold Builder (Carpenter)

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	600	\$21.450	\$5.250	\$0.000	\$8.530	\$0.770	\$2.440	\$38.440
2	6	600	\$22.690	\$5.250	\$0.000	\$8.530	\$0.770	\$2.440	\$39.680
3	6	600	\$27.220	\$9.250	\$0.000	\$8.530	\$0.770	\$3.440	\$49.210
4	6	600	\$29.490	\$9.250	\$2.500	\$7.530	\$0.770	\$4.440	\$53.980
5	6	600	\$31.760	\$9.250	\$3.500	\$7.530	\$0.770	\$4.440	\$57.250
6	6	600	\$34.030	\$9.250	\$3.500	\$7.530	\$0.770	\$4.440	\$59.520
7	6	600	\$36.300	\$9.250	\$4.500	\$7.530	\$0.770	\$4.440	\$62.790
8	6	600	\$40.830	\$9.250	\$4.500	\$7.530	\$0.770	\$4.440	\$67.320

FOOTNOTE(S)

Vacation/Holiday--Includes an amount for Supplemental Dues.

Other--Includes an amount for Cooperation Committee and Industry Fund. For Periods 1-2, includes \$2.00 for Annuity; Period 3, \$3.00 for Annuity; Periods 4-8, \$4.00 for Annuity.

*No predetermined increases.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 12-31-2025 **

Craft/Classification: Carpet, Linoleum and Resilient Floor Layer

Shift: 1

Counties: Imperial, San Diego

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	750	\$22.090	\$4.500	\$6.840	\$2.180	\$1.050	\$1.420	\$38.080
2	6	750	\$23.710	\$4.500	\$6.880	\$2.180	\$1.050	\$1.420	\$39.740
3	6	750	\$26.910	\$4.500	\$7.170	\$2.160	\$1.050	\$1.420	\$43.210
4	6	750	\$30.130	\$4.500	\$7.560	\$2.130	\$1.050	\$1.420	\$46.790
5	6	750	\$33.200	\$4.500	\$8.340	\$2.320	\$1.050	\$1.420	\$50.830
6	6	750	\$36.180	\$4.500	\$9.150	\$2.260	\$1.050	\$1.420	\$54.560
7	6	750	\$37.640	\$4.500	\$9.720	\$2.220	\$1.050	\$1.420	\$56.550
8	6	750	\$39.110	\$4.500	\$10.300	\$2.180	\$1.050	\$1.420	\$58.560

FOOTNOTE(S)

JOURNEYMAN PREDETERMINED INCREASES

January 1, 2026: \$3.75 to be allocated to the following: \$2.75 to Basic Hourly Rate, \$0.50 to Vacation/Holiday, \$0.50 to Health & Welfare.

January 1, 2027: \$3.75 to be allocated to the following: \$2.75 to Basic Hourly Rate, \$0.50 to Vacation/Holiday, \$0.50 to Health & Welfare.

January 1, 2028: \$3.75 to be allocated to the following: \$3.25 to Basic Hourly Rate and \$0.50 to Health & Welfare.

January 1, 2029: \$3.75 to be allocated to the following: \$0.50 to Basic Hourly Rate, \$0.50 to Health & Welfare, and \$2.75 to wages and/or fringes.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please email a request to statistics@dir.ca.gov 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: 2025-2

Issue Date: 08-22-2025

Expire Date: 12-31-2025 **

Craft/Classification: Carpet, Linoleum and Resilient Floor Layer

Shift: 2

Counties: Imperial, San Diego

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	750	\$25.400	\$4.500	\$6.840	\$2.180	\$1.050	\$1.420	\$41.390
2	6	750	\$27.270	\$4.500	\$6.880	\$2.180	\$1.050	\$1.420	\$43.300
3	6	750	\$30.950	\$4.500	\$7.170	\$2.160	\$1.050	\$1.420	\$47.250
4	6	750	\$34.650	\$4.500	\$7.560	\$2.130	\$1.050	\$1.420	\$51.310
5	6	750	\$38.180	\$4.500	\$8.340	\$2.320	\$1.050	\$1.420	\$55.810
6	6	750	\$41.610	\$4.500	\$9.150	\$2.260	\$1.050	\$1.420	\$59.990
7	6	750	\$43.290	\$4.500	\$9.720	\$2.220	\$1.050	\$1.420	\$62.200
8	6	750	\$44.980	\$4.500	\$10.300	\$2.180	\$1.050	\$1.420	\$64.430

FOOTNOTE(S)

JOURNEYMAN PREDETERMINED INCREASES

January 1, 2026: \$6.33 to be allocated to the following: \$5.33 to Basic Hourly Rate, \$0.50 to Vacation/Holiday, \$0.50 to Health & Welfare.

January 1, 2027: \$3.75 to be allocated to the following: \$2.75 to Basic Hourly Rate, \$0.50 to Vacation/Holiday, \$0.50 to Health & Welfare.

January 1, 2028: \$3.75 to be allocated to the following: \$3.25 to Basic Hourly Rate and \$0.50 to Health & Welfare.

January 1, 2029: \$3.75 to be allocated to the following: \$0.50 to Basic Hourly Rate, \$0.50 to Health & Welfare, and \$2.75 to wages and/or fringes.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please email a request to statistics@dir.ca.gov 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

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 **

Craft/Classification: Cement Mason

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	N/A	\$23.850	\$9.080	\$0.000	\$2.520	\$.640	\$.240	\$36.330
2	6	N/A	\$26.240	\$9.080	\$0.000	\$2.520	\$.640	\$.240	\$38.720
3	6	N/A	\$28.620	\$9.080	\$0.000	\$2.520	\$.640	\$.240	\$41.100
4	6	N/A	\$31.010	\$9.080	\$0.000	\$7.520	\$.640	\$.240	\$48.490
5	6	N/A	\$33.390	\$9.080	\$12.350	\$7.520	\$.640	\$.240	\$63.220
6	6	N/A	\$35.780	\$9.080	\$12.350	\$7.520	\$.640	\$.240	\$65.610
7	6	N/A	\$38.160	\$9.080	\$12.350	\$7.520	\$.640	\$.240	\$67.990
8	6	N/A	\$42.930	\$9.080	\$12.350	\$7.520	\$.640	\$.240	\$72.760

FOOTNOTE(S)

Vacation - includes an amount for supplemental dues.

Other - includes amounts for Industry Advancement, Contract Administration, and Labor-Management Cooperation Committee Trust.

** JOURNEYMAN PREDETERMINED INCREASES

Effective July 1, 2026, there will be an increase of \$3.16 allocated to wages and/or fringes.

Effective July 1, 2027, there will be an increase of \$3.21 allocated to wages and/or fringes.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please email a request to statistics@dir.ca.gov 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

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 *

Craft/Classification: Drywall Installer/Lather (Carpenter)

Indentured/Other: SC

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	1,000	\$21.450	\$5.500	\$0.000	\$8.460	\$0.770	\$2.500	\$38.680
2	N/A	600	\$26.120	\$5.500	\$0.000	\$8.460	\$0.770	\$2.500	\$43.350
3	N/A	600	\$31.340	\$9.500	\$0.000	\$8.460	\$0.770	\$3.500	\$53.570
4	N/A	600	\$33.960	\$9.500	\$2.500	\$7.460	\$0.770	\$5.270	\$59.460
5	N/A	600	\$36.570	\$9.500	\$3.500	\$7.460	\$0.770	\$5.270	\$63.070
6	N/A	600	\$39.180	\$9.500	\$3.500	\$7.460	\$0.770	\$5.270	\$65.680
7	N/A	600	\$41.790	\$9.500	\$4.500	\$7.460	\$0.770	\$5.270	\$69.290
8	N/A	600	\$47.020	\$9.500	\$4.500	\$7.460	\$0.770	\$5.270	\$74.520

FOOTNOTE(S)

Vacation/Holiday -- Includes an amount per hour worked for Supplemental Dues.

Other -- Includes amounts for Contract Administration, Cooperation Committee, Drywall Industry Fund, Partnership for Jobs Fund, and Annuity.

*NO PREDETERMINED INCREASES

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 08-31-2026 *

Craft/Classification: Drywall Finisher

Counties: Imperial, Los Angeles (Except For Antelope Valley), Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	900	\$23.100	\$9.200	\$1.550	\$1.900	\$.920	\$1.220	\$37.890
2	6	900	\$25.670	\$9.200	\$4.560	\$2.550	\$.920	\$1.220	\$44.120
3	6	900	\$28.230	\$9.200	\$4.730	\$2.700	\$.920	\$1.220	\$47.000
4	6	900	\$30.800	\$9.200	\$7.130	\$2.850	\$.920	\$1.220	\$52.120
5	6	900	\$33.360	\$9.200	\$8.700	\$4.000	\$.920	\$1.220	\$57.400
6	6	900	\$41.060	\$9.200	\$9.040	\$4.450	\$.920	\$1.220	\$65.890

FOOTNOTE(S)

BHR -- Includes amount for dues check off.

Other -- For LMCC.

Application of wage sheet above to Los Angeles County excludes northern Antelope Valley.

* No predetermined increases.

Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 08-31-2026 *

Craft/Classification: Drywall Finisher

Counties: Inyo, Kern, Los Angeles (Antelope Valley Area), Mono

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	900	\$23.100	\$9.200	\$1.550	\$1.900	\$.920	\$1.220	\$37.890
2	6	900	\$25.670	\$9.200	\$4.560	\$2.550	\$.920	\$1.220	\$44.120
3	6	900	\$28.230	\$9.200	\$4.730	\$2.700	\$.920	\$1.220	\$47.000
4	6	900	\$30.800	\$9.200	\$7.130	\$2.850	\$.920	\$1.220	\$52.120
5	6	900	\$33.360	\$9.200	\$8.700	\$4.000	\$.920	\$1.220	\$57.400
6	6	900	\$41.060	\$9.200	\$9.040	\$4.450	\$.920	\$1.220	\$65.890

FOOTNOTE(S)

BHR -- Includes an amount for dues check off.

Other -- For LMCC.

Chart above applies to the portion of Los Angeles county described as Northern Antelope Valley only 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. (Although chart above is based on a different journeyman wage than other portion of LA county, negotiated apprentice wages are the same.)

* No predetermined increases.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 05-31-2026 **

Craft/Classification: Electrician, Inside Wireman

Indentured/Other: SD & (Imper \$5M or less)

Shift: 1

Counties: Imperial, San Diego

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	800	\$23.580	\$7.250	\$.760	\$0.000	\$.870	\$.090	\$32.550
2	6	800	\$25.940	\$7.250	\$.830	\$0.000	\$.870	\$.090	\$34.980
3	6	800	\$28.300	\$7.250	\$4.690	\$0.000	\$.870	\$.290	\$41.400
4	6	800	\$30.650	\$7.250	\$5.080	\$0.000	\$.870	\$.290	\$44.140
5	6	800	\$33.010	\$7.250	\$5.470	\$0.000	\$.870	\$.290	\$46.890
6	6	800	\$35.370	\$7.250	\$5.860	\$0.000	\$.870	\$.290	\$49.640
7	6	800	\$38.910	\$7.250	\$6.450	\$0.000	\$.870	\$.290	\$53.770
8	6	800	\$41.270	\$7.250	\$6.840	\$0.000	\$.870	\$.290	\$56.520
9	6	800	\$45.980	\$7.250	\$7.620	\$0.000	\$.870	\$.290	\$62.010
10	6	800	\$48.340	\$7.250	\$8.010	\$0.000	\$.870	\$.290	\$64.760

FOOTNOTE(S)

IMPERIAL COUNTY PROJECTS BID \$5,000,000 OR LESS USE THESE AMOUNTS.

Pension--Includes an amount equal to 3% of the Basic Hourly Rate (BHR) added to the daily and overtime rate for the NEBF. Pursuant to Labor Code Sections 1773.1 and 1773.8, the amount paid for the employer payment may vary resulting in a lower taxable Basic Hourly Rate, but the Total Hourly Rates for Straight Time and Overtime may not be less than the general prevailing rate of per diem wages.

Other--Includes amounts for Labor Management Cooperation Committee Fund and Manpower Development Trust.

** Journeyman Predetermined Increases

Effective June 1, 2026: \$2.25 to be allocated to wages and/or employer payments.

Effective January 4, 2027: \$2.25 to be allocated to wages and/or employer payments.

Effective June 7, 2027: \$2.25 to be allocated to wages and/or employer payments.

Effective January 3, 2028: \$2.15 to be allocated to wages and/or employer payments.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please send a request to statistics@dir.ca.gov 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: 2025-2

Issue Date: 08-22-2025

Expire Date: 05-31-2026 **

Craft/Classification: Electrician, Inside Wireman

Indentured/Other: SD & (Imper \$5M or less)

Shift: 2

Counties: Imperial, San Diego

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	800	\$27.660	\$7.250	\$.880	\$.000	\$.870	\$.090	\$36.750
2	6	800	\$30.430	\$7.250	\$.960	\$.000	\$.870	\$.090	\$39.600
3	6	800	\$33.200	\$7.250	\$4.840	\$.000	\$.870	\$.290	\$46.450
4	6	800	\$35.950	\$7.250	\$5.240	\$.000	\$.870	\$.290	\$49.600
5	6	800	\$38.720	\$7.250	\$5.640	\$.000	\$.870	\$.290	\$52.770
6	6	800	\$41.490	\$7.250	\$6.040	\$.000	\$.870	\$.290	\$55.940
7	6	800	\$45.640	\$7.250	\$6.650	\$.000	\$.870	\$.290	\$60.700
8	6	800	\$48.410	\$7.250	\$7.050	\$.000	\$.870	\$.290	\$63.870
9	6	800	\$53.930	\$7.250	\$7.860	\$.000	\$.870	\$.290	\$70.200
10	6	800	\$56.700	\$7.250	\$8.260	\$.000	\$.870	\$.290	\$73.370

FOOTNOTE(S)

IMPERIAL COUNTY PROJECTS BID \$5,000,000 OR LESS USE THESE AMOUNTS.

Pension--Includes an amount equal to 3% of the Basic Hourly Rate (BHR) added to the daily and overtime rate for the NEBF. Pursuant to Labor Code Sections 1773.1 and 1773.8, the amount paid for

the employer payment may vary resulting in a lower taxable Basic Hourly Rate, but the Total Hourly Rates for Straight Time and Overtime may not be less than the general prevailing rate of per diem wages.

Other--Includes amounts for Labor Management Cooperation Committee Fund and Manpower Development Trust.

** Journeyman Predetermined Increases

Effective June 1, 2026: \$2.25 to be allocated to wages and/or employer payments.

Effective January 4, 2027: \$2.25 to be allocated to wages and/or employer payments.

Effective June 7, 2027: \$2.25 to be allocated to wages and/or employer payments.

Effective January 3, 2028: \$2.15 to be allocated to wages and/or employer payments.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please send a request to statistics@dir.ca.gov or send to the following address:

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Office of the Director - Research Unit

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San Francisco, CA 94142-0603

Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 05-31-2026 **

Craft/Classification: Electrician, Inside Wireman

Indentured/Other: SD & (Imper \$5M or less)

Shift: 3

Counties: Imperial, San Diego

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	800	\$30.980	\$7.250	\$0.980	\$0.000	\$0.870	\$0.090	\$40.170
2	6	800	\$34.090	\$7.250	\$1.070	\$0.000	\$0.870	\$0.090	\$43.370
3	6	800	\$37.190	\$7.250	\$4.960	\$0.000	\$0.870	\$0.290	\$50.560
4	6	800	\$40.270	\$7.250	\$5.370	\$0.000	\$0.870	\$0.290	\$54.050
5	6	800	\$43.380	\$7.250	\$5.780	\$0.000	\$0.870	\$0.290	\$57.570
6	6	800	\$46.480	\$7.250	\$6.190	\$0.000	\$0.870	\$0.290	\$61.080
7	6	800	\$51.130	\$7.250	\$6.810	\$0.000	\$0.870	\$0.290	\$66.350
8	6	800	\$54.230	\$7.250	\$7.230	\$0.000	\$0.870	\$0.290	\$69.870
9	6	800	\$60.420	\$7.250	\$8.050	\$0.000	\$0.870	\$0.290	\$76.880

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
10	6	800	\$63.520	\$7.250	\$8.470	\$0.000	\$0.870	\$0.290	\$80.400

FOOTNOTE(S)

IMPERIAL COUNTY PROJECTS BID \$5,000,000 OR LESS USE THESE AMOUNTS.

Pension--Includes an amount equal to 3% of the Basic Hourly Rate (BHR) added to the daily and overtime rate for the NEBF. Pursuant to Labor Code Sections 1773.1 and 1773.8, the amount paid for the employer payment may vary resulting in a lower taxable Basic Hourly Rate, but the Total Hourly Rates for Straight Time and Overtime may not be less than the general prevailing rate of per diem wages.

Other--Includes amounts for Labor Management Cooperation Committee Fund and Manpower Development Trust.

** Journeyman Predetermined Increases

Effective June 1, 2026: \$2.25 to be allocated to wages and/or employer payments.

Effective January 4, 2027: \$2.25 to be allocated to wages and/or employer payments.

Effective June 7, 2027: \$2.25 to be allocated to wages and/or employer payments.

Effective January 3, 2028: \$2.15 to be allocated to wages and/or employer payments.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please send a request to statistics@dir.ca.gov 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: 2025-2

Issue Date: 08-22-2025

Expire Date: 05-31-2026 **

Craft/Classification: Electrician, Inside Wireman

Indentured/Other: Imp Co Projects over \$5M

Shift: 1

Counties: Imperial

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	800	\$28.080	\$7.250	\$0.890	\$0.000	\$0.870	\$0.090	\$37.180

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
2	6	800	\$30.440	\$7.250	\$0.960	\$0.000	\$0.870	\$0.090	\$39.610
3	6	800	\$32.800	\$7.250	\$4.820	\$0.000	\$0.870	\$0.290	\$46.030
4	6	800	\$35.150	\$7.250	\$5.210	\$0.000	\$0.870	\$0.290	\$48.770
5	6	800	\$37.510	\$7.250	\$5.610	\$0.000	\$0.870	\$0.290	\$51.530
6	6	800	\$39.870	\$7.250	\$6.000	\$0.000	\$0.870	\$0.290	\$54.280
7	6	800	\$43.410	\$7.250	\$6.580	\$0.000	\$0.870	\$0.290	\$58.400
8	6	800	\$45.770	\$7.250	\$6.970	\$0.000	\$0.870	\$0.290	\$61.150
9	6	800	\$50.480	\$7.250	\$7.750	\$0.000	\$0.870	\$0.290	\$66.640
10	6	800	\$52.840	\$7.250	\$8.150	\$0.000	\$0.870	\$0.290	\$69.400

FOOTNOTE(S)

For work in Imperial County on jobs bid over \$5,000,000.

Pension--Includes an amount equal to 3% of the Basic Hourly Rate (BHR) added to the daily and overtime rate for the NEBF. Pursuant to Labor Code Sections 1773.1 and 1773.8, the amount paid for the employer payment may vary resulting in a lower taxable Basic Hourly Rate, but the Total Hourly Rates for Straight Time and Overtime may not be less than the general prevailing rate of per diem wages.

Other--Includes amounts for Labor Management Cooperation Committee Fund and Manpower Development Trust..

** Journeyman Predetermined Increases

Effective June 1, 2026: \$3.00 to be allocated to wages and/or employer payments.

Effective January 4, 2027: \$2.25 to be allocated to wages and/or employer payments.

Effective June 7, 2027: \$3.00 to be allocated to wages and/or employer payments.

Effective January 3, 2028: \$2.15 to be allocated to wages and/or employer payments.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please send a request to statistics@dir.ca.gov 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: 2025-2

Issue Date: 08-22-2025

Expire Date: 05-31-2026 **

Craft/Classification: Electrician, Inside Wireman

Indentured/Other: Imp Co Projects over \$5M

Shift: 2

Counties: Imperial

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	800	\$32.940	\$7.250	\$1.040	\$0.000	\$0.870	\$0.090	\$42.190
2	6	800	\$35.710	\$7.250	\$1.120	\$0.000	\$0.870	\$0.090	\$45.040
3	6	800	\$38.470	\$7.250	\$4.990	\$0.000	\$0.870	\$0.290	\$51.870
4	6	800	\$41.230	\$7.250	\$5.400	\$0.000	\$0.870	\$0.290	\$55.040
5	6	800	\$44.000	\$7.250	\$5.800	\$0.000	\$0.870	\$0.290	\$58.210
6	6	800	\$46.770	\$7.250	\$6.200	\$0.000	\$0.870	\$0.290	\$61.380
7	6	800	\$50.920	\$7.250	\$6.810	\$0.000	\$0.870	\$0.290	\$66.140
8	6	800	\$53.690	\$7.250	\$7.210	\$0.000	\$0.870	\$0.290	\$69.310
9	6	800	\$59.210	\$7.250	\$8.020	\$0.000	\$0.870	\$0.290	\$75.640
10	6	800	\$61.980	\$7.250	\$8.420	\$0.000	\$0.870	\$0.290	\$78.810

FOOTNOTE(S)

For work in Imperial County on jobs bid over \$5,000,000.

Pension--Includes an amount equal to 3% of the Basic Hourly Rate (BHR) added to the daily and overtime rate for the NEBF. Pursuant to Labor Code Sections 1773.1 and 1773.8, the amount paid for the employer payment may vary resulting in a lower taxable Basic Hourly Rate, but the Total Hourly Rates for Straight Time and Overtime may not be less than the general prevailing rate of per diem wages.

Other--Includes amounts for Labor Management Cooperation Committee Fund and Manpower Development Trust.

** Journeyman Predetermined Increases

Effective June 1, 2026: \$3.00 to be allocated to wages and/or employer payments.

Effective January 4, 2027: \$2.25 to be allocated to wages and/or employer payments.

Effective June 7, 2027: \$3.00 to be allocated to wages and/or employer payments.

Effective January 3, 2028: \$2.15 to be allocated to wages and/or employer payments.

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San Francisco, CA 94142-0603

Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 05-31-2026 **

Craft/Classification: Electrician, Inside Wireman

Indentured/Other: Imp Co Projects over \$5M

Shift: 3

Counties: Imperial

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	800	\$36.900	\$7.250	\$1.160	\$0.000	\$0.870	\$0.090	\$46.270
2	6	800	\$40.000	\$7.250	\$1.250	\$0.000	\$0.870	\$0.090	\$49.460
3	6	800	\$43.100	\$7.250	\$5.130	\$0.000	\$0.870	\$0.290	\$56.640
4	6	800	\$46.190	\$7.250	\$5.550	\$0.000	\$0.870	\$0.290	\$60.150
5	6	800	\$49.290	\$7.250	\$5.960	\$0.000	\$0.870	\$0.290	\$63.660
6	6	800	\$52.390	\$7.250	\$6.370	\$0.000	\$0.870	\$0.290	\$67.170
7	6	800	\$57.040	\$7.250	\$6.990	\$0.000	\$0.870	\$0.290	\$72.440
8	6	800	\$60.140	\$7.250	\$7.400	\$0.000	\$0.870	\$0.290	\$75.950
9	6	800	\$66.330	\$7.250	\$8.230	\$0.000	\$0.870	\$0.290	\$82.970
10	6	800	\$69.430	\$7.250	\$8.640	\$0.000	\$0.870	\$0.290	\$86.480

FOOTNOTE(S)

For work in Imperial County on jobs bid over \$5,000,000.

Pension--Includes an amount equal to 3% of the Basic Hourly Rate (BHR) added to the daily and overtime rate for the NEBF. Pursuant to Labor Code Sections 1773.1 and 1773.8, the amount paid for the employer payment may vary resulting in a lower taxable Basic Hourly Rate, but the Total Hourly Rates for Straight Time and Overtime may not be less than the general prevailing rate of per diem wages.

Other--Includes amounts for Labor Management Cooperation Committee Fund and Manpower Development Trust.

** Journeyman Predetermined Increases

Effective June 1, 2026: \$3.00 to be allocated to wages and/or employer payments.

Effective January 4, 2027: \$2.25 to be allocated to wages and/or employer payments.

Effective June 7, 2027: \$3.00 to be allocated to wages and/or employer payments.

Effective January 3, 2028: \$2.15 to be allocated to wages and/or employer payments.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please send a request to statistics@dir.ca.gov or send to the following address:

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GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 05-31-2026 **

Craft/Classification: Electrical Utility Lineman

Counties: Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, El Dorado, Fresno, Glenn, Humboldt, Imperial, Inyo, Kern, Kings, Lake, Lassen, Los Angeles, Madera, Marin, Mariposa, Mendocino, Merced, Mono, Monterey, Napa, Nevada, Orange, Placer, Plumas, Riverside, Sacramento, San Benito, San Bernardino, San Diego, San Francisco, San Joaquin, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Santa Cruz, Shasta, Sierra, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Ventura, Yolo, Yuba

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	1,000	\$43.360	\$8.800	\$12.600	\$0.000	\$0.430	\$0.480	\$65.670
2	N/A	1,000	\$46.970	\$8.800	\$12.710	\$0.000	\$0.470	\$0.510	\$69.460
3	N/A	1,000	\$50.580	\$8.800	\$12.820	\$0.000	\$0.510	\$0.550	\$73.260
4	N/A	1,000	\$54.200	\$8.800	\$12.930	\$0.000	\$0.540	\$0.590	\$77.060
5	N/A	1,000	\$57.810	\$8.800	\$13.030	\$0.000	\$0.580	\$0.630	\$80.850
6	N/A	1,000	\$61.420	\$8.800	\$13.140	\$0.000	\$0.610	\$0.680	\$84.650
7	N/A	1,000	\$65.030	\$8.800	\$13.250	\$0.000	\$0.650	\$0.720	\$88.450

FOOTNOTE(S)

PENSION - 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.

TRAINING - This amount is factored at the applicable overtime rate.

OTHER - Includes \$0.01 to LMCC; the remaining amount is factored at the applicable overtime rate.

** JOURNEYMAN PREDETERMINED INCREASES:

Effective June 1, 2026, there will be an increase of \$2.77 allocated as follows: \$2.17 to the Basic Hourly Rate, \$0.10 to Health and Welfare, and \$0.50 to Pension.

There may be a corresponding predetermined increase(s) to the apprentices associated with this journeyman

craft/classification. Please e-mail a request to statistics@dir.ca.gov or send to the following address:

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San Francisco, CA 94142-0603

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 05-31-2026 *

Craft/Classification: Sound and Signal Tech

Shift: 1

Counties: Imperial, San Diego

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	N/A	\$24.880	\$7.250	\$.800	\$.000	\$.870	\$.190	\$33.990
2	6	N/A	\$24.880	\$7.250	\$.800	\$.000	\$.870	\$.190	\$33.990
3	6	N/A	\$29.400	\$7.250	\$4.780	\$.000	\$.870	\$.190	\$42.490
4	6	N/A	\$29.400	\$7.250	\$4.780	\$.000	\$.870	\$.190	\$42.490
5	6	N/A	\$38.450	\$7.250	\$6.250	\$.000	\$.870	\$.190	\$53.010
6	6	N/A	\$38.450	\$7.250	\$6.250	\$.000	\$.870	\$.190	\$53.010
7	6	N/A	\$40.710	\$7.250	\$6.620	\$.000	\$.870	\$.190	\$55.640
8	6	N/A	\$40.710	\$7.250	\$6.620	\$.000	\$.870	\$.190	\$55.640

FOOTNOTE(S)

Pension -- Includes an amount equal to 3% of the Basic Hourly Rate (BHR) added to the daily and overtime rate for the NEBF. Pursuant to Labor Code Sections 1773.1 and 1773.8, the amount paid for the employer payment may vary resulting in a lower taxable Basic Hourly Rate, but the Total Hourly Rates for Straight Time and Overtime may not be less than the general prevailing rate of per diem wages.

Other -- Includes amount for Labor Management Cooperation Committee Fund and Education Manpower Development Trust (EMDT).

*No Predetermined Increases.

Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 05-31-2026 *

Craft/Classification: Sound and Signal Tech

Shift: 2

Counties: Imperial, San Diego

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	N/A	\$29.180	\$7.250	\$.930	\$.000	\$.870	\$.190	\$38.420
2	6	N/A	\$29.180	\$7.250	\$.930	\$.000	\$.870	\$.190	\$38.420
3	6	N/A	\$34.490	\$7.250	\$4.930	\$.000	\$.870	\$.190	\$47.730
4	6	N/A	\$34.490	\$7.250	\$4.930	\$.000	\$.870	\$.190	\$47.730
5	6	N/A	\$45.100	\$7.250	\$6.450	\$.000	\$.870	\$.190	\$59.860
6	6	N/A	\$45.100	\$7.250	\$6.450	\$.000	\$.870	\$.190	\$59.860
7	6	N/A	\$47.750	\$7.250	\$6.830	\$.000	\$.870	\$.190	\$62.890
8	6	N/A	\$47.750	\$7.250	\$6.830	\$.000	\$.870	\$.190	\$62.890

FOOTNOTE(S)

Pension -- Includes an amount equal to 3% of the Basic Hourly Rate (BHR) added to the daily and overtime rate for the NEBF. Pursuant to Labor Code Sections 1773.1 and 1773.8, the amount paid for the employer payment may vary resulting in a lower taxable Basic Hourly Rate, but the Total Hourly Rates for Straight Time and Overtime may not be less than the general prevailing rate of per diem wages.

Other -- Includes amount for Labor Management Cooperation Committee Fund and Education Manpower Development Trust (EMDT).

*No Predetermined Increases.

Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 05-31-2026 *

Craft/Classification: Sound and Signal Tech

Shift: 3

Counties: Imperial, San Diego

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	N/A	\$32.690	\$7.250	\$1.030	\$.000	\$.870	\$.190	\$42.030
2	6	N/A	\$32.690	\$7.250	\$1.030	\$.000	\$.870	\$.190	\$42.030
3	6	N/A	\$38.630	\$7.250	\$5.060	\$.000	\$.870	\$.190	\$52.000
4	6	N/A	\$38.630	\$7.250	\$5.060	\$.000	\$.870	\$.190	\$52.000
5	6	N/A	\$50.520	\$7.250	\$6.620	\$.000	\$.870	\$.190	\$65.450
6	6	N/A	\$50.520	\$7.250	\$6.620	\$.000	\$.870	\$.190	\$65.450
7	6	N/A	\$53.490	\$7.250	\$7.000	\$.000	\$.870	\$.190	\$68.800
8	6	N/A	\$53.490	\$7.250	\$7.000	\$.000	\$.870	\$.190	\$68.800

FOOTNOTE(S)

Pension -- Includes an amount equal to 3% of the Basic Hourly Rate (BHR) added to the daily and overtime rate for the NEBF. Pursuant to Labor Code Sections 1773.1 and 1773.8, the amount paid for the employer payment may vary resulting in a lower taxable Basic Hourly Rate, but the Total Hourly Rates for Straight Time and Overtime may not be less than the general prevailing rate of per diem wages.

Other -- Includes amount for Labor Management Cooperation Committee Fund and Education Manpower Development Trust (EMDT).

*No Predetermined Increases.

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 05-31-2026 **

Craft/Classification: Streetlighting, Traffic Signal, Underground Systems Technician

Shift: 1

Counties: Imperial, San Diego

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	800	\$21.810	\$7.250	\$.700	\$0.000	\$.500	\$.220	\$30.480
2	6	800	\$23.990	\$7.250	\$.770	\$0.000	\$.500	\$.220	\$32.730
3	6	800	\$26.170	\$7.250	\$3.940	\$0.000	\$.500	\$.220	\$38.080
4	6	800	\$28.350	\$7.250	\$4.260	\$0.000	\$.500	\$.220	\$40.580
5	6	800	\$32.720	\$7.250	\$4.920	\$0.000	\$.500	\$.220	\$45.610
6	6	800	\$37.080	\$7.250	\$5.570	\$0.000	\$.500	\$.220	\$50.620

FOOTNOTE(S)

Applies to all Technicians Grades 1 - 3.

Pension--Includes an amount equal to 3% of the Basic Hourly Rate (BHR) added to the daily and overtime rate for the NEBF. Pursuant to Labor Code Sections 1773.1 and 1773.8, the amount paid for the employer payment may vary resulting in a lower taxable Basic Hourly Rate, but the Total Hourly Rates for Straight Time and Overtime may not be less than the general prevailing rate of per diem wages.

Other--Includes amounts for Labor Management Cooperation Committee Fund and Manpower Development Trust.

** Journeyman Predetermined Increases:

Effective 6/1/2026: \$2.00 to be allocated to wages and/or employer payments.

Effective 6/7/2027: \$2.00 to be allocated to wages and/or employer payments.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please send a request to statistics@dir.ca.gov 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: 2025-2

Issue Date: 08-22-2025

Expire Date: 05-31-2026 **

Craft/Classification: Streetlighting, Traffic Signal,
Underground Systems Technician

Shift: 2

Counties: Imperial, San Diego

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	800	\$25.580	\$7.250	\$.820	\$.000	\$.500	\$.220	\$34.370
2	6	800	\$28.140	\$7.250	\$.890	\$.000	\$.500	\$.220	\$37.000
3	6	800	\$30.700	\$7.250	\$4.070	\$.000	\$.500	\$.220	\$42.740
4	6	800	\$33.250	\$7.250	\$4.410	\$.000	\$.500	\$.220	\$45.630
5	6	800	\$38.380	\$7.250	\$5.090	\$.000	\$.500	\$.220	\$51.440
6	6	800	\$43.490	\$7.250	\$5.760	\$.000	\$.500	\$.220	\$57.220

FOOTNOTE(S)

Applies to all Technicians Grades 1 - 3.

Pension--Includes an amount equal to 3% of the Basic Hourly Rate (BHR) added to the daily and overtime rate for the NEBF. Pursuant to Labor Code Sections 1773.1 and 1773.8, the amount paid for the employer payment may vary resulting in a lower taxable Basic Hourly Rate, but the Total Hourly Rates for Straight Time and Overtime may not be less than the general prevailing rate of per diem wages.

Other--Includes amounts for Labor Management Cooperation Committee Fund and Manpower Development Trust.

**Journeyman Predetermined Increases:

Effective 6/1/2026: \$2.00 to be allocated to wages and/or employer payments.

Effective 6/7/2027: \$2.00 to be allocated to wages and/or employer payments.

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P.O. Box 420603

San Francisco, CA 94142-0603

Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 05-31-2026 **

Craft/Classification: Streetlighting, Traffic Signal,
Underground Systems Technician

Shift: 3

Counties: Imperial, San Diego

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	800	\$28.660	\$7.250	\$.910	\$.000	\$.500	\$.220	\$37.540
2	6	800	\$31.520	\$7.250	\$1.000	\$.000	\$.500	\$.220	\$40.490
3	6	800	\$34.390	\$7.250	\$4.180	\$.000	\$.500	\$.220	\$46.540
4	6	800	\$37.250	\$7.250	\$4.530	\$.000	\$.500	\$.220	\$49.750
5	6	800	\$42.990	\$7.250	\$5.230	\$.000	\$.500	\$.220	\$56.190
6	6	800	\$48.720	\$7.250	\$5.920	\$.000	\$.500	\$.220	\$62.610

FOOTNOTE(S)

Applies to all Technicians Grades 1 - 3.

Pension--Includes an amount equal to 3% of the Basic Hourly Rate (BHR) added to the daily and overtime rate for the NEBF. Pursuant to Labor Code Sections 1773.1 and 1773.8, the amount paid for the employer payment may vary resulting in a lower taxable Basic Hourly Rate, but the Total Hourly Rates for Straight Time and Overtime may not be less than the general prevailing rate of per diem wages.

Other--Includes amounts for Labor Management Cooperation Committee Fund and Manpower Development Trust.

**Journeyman Predetermined Increases:

Effective 6/1/2026: \$2.00 to be allocated to wages and/or employer payments.

Effective 6/7/2027: \$2.00 to be allocated to wages and/or employer payments.

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Determination: 2025-2

Issue Date: 02-22-2025

Expire Date: 12-31-2025 **

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	\$42.030	\$0.000	\$0.000	\$2.520	\$0.000	\$0.000	\$44.550
2	6	600	\$46.230	\$16.275	\$21.360	\$2.770	\$0.800	\$1.600	\$89.035
3	12	1,200	\$54.630	\$16.275	\$21.360	\$3.280	\$0.800	\$1.600	\$97.945
4	12	1,200	\$58.840	\$16.275	\$21.360	\$3.530	\$0.800	\$1.600	\$102.405
5	12	1,200	\$67.240	\$16.275	\$21.360	\$4.030	\$0.800	\$1.600	\$111.305

FOOTNOTE(S)

PENSION: Includes \$10.40 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 \$4.71 and the total hourly rate is \$103.585. For the 5th period apprentices (Employed in

industry more than 5 years), the vacation/holiday payment is \$5.38 and the total hourly rate is \$112.655.

OTHER: \$1.60 per hour for EIWPF (Elevator Industry Work Preservation Fund) for periods 2 to 5.

**** Journeyman Predetermined Increases**

Effective January 1, 2026, there will be an increase of \$4.28 to be allocated to wages and/or employer payments for Journeyman Mechanic.

Effective January 1, 2027, there will be an increase of \$4.49 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 e-mail a request to statistics@dir.ca.gov 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: 2025-2

Issue Date: 02-22-2025

Expire Date: 12-31-2025 **

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	\$34.720	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$34.720
2	6	850	\$38.190	\$16.275	\$21.360	\$3.470	\$0.800	\$1.600	\$81.695
3	12	2,000	\$45.130	\$16.275	\$21.360	\$4.100	\$0.800	\$1.600	\$89.265
4	12	2,000	\$48.600	\$16.275	\$21.360	\$4.420	\$0.800	\$1.600	\$93.055
5	12	2,000	\$55.540	\$16.275	\$21.360	\$5.040	\$0.800	\$1.600	\$100.615

FOOTNOTE(S)

PENSION includes the following: Defined Benefit Pension Plan - \$10.96 / Defined Contribution Pension Plan - \$10.40

OTHER: Elevator Work Preservation Fund - \$1.60

JOURNEYMAN PREDETERMINED INCREASES:

MECHANIC:

Effective January 1, 2026 -- an increase of \$3.99 allocated to wages and/or employer payments.

Effective January 1, 2027 -- an increase of \$4.18 allocated to wages and/or employer payments.

MECHANIC (Employed in industry more than 5 years)

Effective January 1, 2026 -- an increase of \$3.99 allocated to wages and/or employer payments.

Effective January 1, 2027 -- an increase of \$4.18 allocated to wages and/or employer payments.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman

craft/classification. Please email a request to statistics@dir.ca.gov 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: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 *

Craft/Classification: Fence Builder (Carpenter)

Indentured/Other: Fence Builder

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	1,000	\$21.450	\$5.500	\$0.000	\$7.710	\$0.720	\$2.660	\$38.040
2	N/A	600	\$24.130	\$5.500	\$0.000	\$7.710	\$0.720	\$2.660	\$40.720
3	N/A	600	\$28.950	\$9.500	\$0.000	\$7.710	\$0.720	\$2.660	\$49.540
4	N/A	600	\$31.360	\$9.500	\$2.500	\$7.210	\$0.720	\$4.260	\$55.550
5	N/A	600	\$33.780	\$9.500	\$3.500	\$7.210	\$0.720	\$4.260	\$58.970
6	N/A	600	\$36.190	\$9.500	\$3.500	\$7.210	\$0.720	\$4.260	\$61.380
7	N/A	600	\$38.600	\$9.500	\$4.500	\$7.210	\$0.720	\$4.260	\$64.790
8	N/A	600	\$43.430	\$9.500	\$4.500	\$7.210	\$0.720	\$4.260	\$69.620

FOOTNOTE(S)

Rates are for Carpenter - Fence Builder

Vacation/Holiday -- Includes an amount for Supplemental Dues.

Other -- Includes an amount for Annuity.

*No predetermined increases.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 09-30-2025 *

Craft/Classification: Chainman/Rodman

Counties: Imperial, Inyo, Kern, Kings, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	500	\$25.550	\$13.200	\$5.000	\$3.950	\$1.200	\$.150	\$49.050
2	N/A	500	\$28.390	\$13.200	\$5.000	\$3.950	\$1.200	\$.150	\$51.890
3	N/A	1,000	\$34.070	\$13.200	\$15.650	\$3.950	\$1.200	\$.150	\$68.220
4	N/A	1,000	\$36.910	\$13.200	\$15.650	\$3.950	\$1.200	\$.150	\$71.060
5	N/A	1,000	\$39.750	\$13.200	\$15.650	\$3.950	\$1.200	\$.150	\$73.900
6	N/A	1,000	\$42.590	\$13.200	\$15.650	\$3.950	\$1.200	\$.150	\$76.740
7	N/A	1,000	\$45.420	\$13.200	\$15.650	\$3.950	\$1.200	\$.150	\$79.570

FOOTNOTE(S)

Pension - Includes an amount for Annuity.

Vacation/Holiday - The amount of \$1.70 is withheld for Supplemental Dues.

Other - Amount (\$0.15) is for the Engineers Contract Compliance Committee.

Rates above also apply to Instrumentman.

* No Predetermined Increases

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 09-30-2025 *

Craft/Classification: Chief of Party

Counties: Imperial, Inyo, Kern, Kings, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	4,000	\$56.780	\$13.200	\$15.650	\$5.170	\$1.200	\$.150	\$92.150

FOOTNOTE(S)

There is only one (1) period of 4000 OJT hours for Chief of Party apprentices.

Vacation/Holiday - The amount of \$1.70 is withheld for Supplemental Dues.

Other - Amount (\$0.15) is for the Engineers Contract Compliance Committee.

* No Predetermined Increases

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 02-22-2025

Expire Date: 09-30-2025 **

Craft/Classification: Glazier

Shift: 1

Counties: Imperial, San Diego

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	N/A	\$21.160	\$6.030	\$3.100	\$1.760	\$.820	\$.400	\$33.270
2	6	N/A	\$23.810	\$6.030	\$3.590	\$1.980	\$.820	\$.400	\$36.630
3	6	N/A	\$26.450	\$6.030	\$4.260	\$2.200	\$.820	\$.400	\$40.160
4	6	N/A	\$29.100	\$6.030	\$4.860	\$2.420	\$.820	\$.400	\$43.630
5	6	N/A	\$31.740	\$6.030	\$5.480	\$2.640	\$.820	\$.400	\$47.110
6	6	N/A	\$34.390	\$6.030	\$6.120	\$2.860	\$.820	\$.400	\$50.620
7	6	N/A	\$39.680	\$6.030	\$7.040	\$3.300	\$.820	\$.400	\$57.270
8	6	N/A	\$44.970	\$6.030	\$7.960	\$3.740	\$.820	\$.400	\$63.920
9	6	N/A	\$47.610	\$6.030	\$8.700	\$3.960	\$.820	\$.400	\$67.520

FOOTNOTE(S)

BHR - Includes an amount for Dues Check-Off.

** Journeyman Predetermined Increases:

Effective October 1, 2025, there will be an increase of \$3.25 allocated as follows: \$2.50 to Basic Hourly Rate, \$0.50 to Vacation/Holiday, \$0.20 to Training, and \$0.05 to Other.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please email a request to statistics@dir.ca.gov 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

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Determination: 2025-2

Issue Date: 02-22-2025

Expire Date: 04-30-2025 *

Craft/Classification: Iron Worker

Indentured/Other: Area 1

Shift: 1

Counties: San Francisco

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	N/A	\$27.920	\$5.500	\$0.000	\$6.350	\$0.720	\$0.035	\$40.525
2	6	N/A	\$30.710	\$12.200	\$0.000	\$6.350	\$0.720	\$0.505	\$50.485
3	6	N/A	\$33.500	\$12.200	\$2.330	\$6.350	\$0.720	\$0.505	\$55.605
4	6	N/A	\$36.290	\$12.200	\$2.330	\$6.350	\$0.720	\$3.785	\$61.675
5	6	N/A	\$41.870	\$12.200	\$4.660	\$6.350	\$0.720	\$3.785	\$69.585
6	6	N/A	\$44.660	\$12.200	\$4.660	\$6.350	\$0.720	\$3.785	\$72.375
7	6	N/A	\$50.250	\$12.200	\$6.990	\$6.350	\$0.720	\$7.065	\$83.575
8	6	N/A	\$53.040	\$12.200	\$6.990	\$6.350	\$0.720	\$7.065	\$86.365

FOOTNOTE(S)

Other includes amounts for Annuity Fund (Except Period 1-3), Admin. Trust (Except Period 1), LMCT (Except Period 1) & WCTF.

*No Predetermined Increases.

Determination: 2025-2

Issue Date: 02-22-2025

Expire Date: 04-30-2025 *

Craft/Classification: Iron Worker

Indentured/Other: Area 2

Shift: 1

Counties: Alameda, Contra Costa, San Mateo, Santa Clara

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	N/A	\$27.670	\$5.500	\$0.000	\$6.350	\$0.720	\$0.035	\$40.275
2	6	N/A	\$30.430	\$12.200	\$0.000	\$6.350	\$0.720	\$0.505	\$50.205
3	6	N/A	\$33.200	\$12.200	\$2.330	\$6.350	\$0.720	\$0.505	\$55.305
4	6	N/A	\$35.960	\$12.200	\$2.330	\$6.350	\$0.720	\$3.785	\$61.345
5	6	N/A	\$41.500	\$12.200	\$4.660	\$6.350	\$0.720	\$3.785	\$69.215
6	6	N/A	\$44.260	\$12.200	\$4.660	\$6.350	\$0.720	\$3.785	\$71.975
7	6	N/A	\$49.800	\$12.200	\$6.990	\$6.350	\$0.720	\$7.065	\$83.125
8	6	N/A	\$52.560	\$12.200	\$6.990	\$6.350	\$0.720	\$7.065	\$85.885

FOOTNOTE(S)

Other includes amounts for Annuity Fund (Except Period 1-3), Admin. Trust (Except Period 1), LMCT (Except Period 1) & WCTF.

*No Predetermined Increases.

Determination: 2025-2

Issue Date: 02-22-2025

Expire Date: 04-30-2025 *

Craft/Classification: Iron Worker

Indentured/Other: Area 3

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	\$26.490	\$5.500	\$0.000	\$6.350	\$0.720	\$0.035	\$39.095
2	6	N/A	\$29.140	\$12.200	\$0.000	\$6.350	\$0.720	\$0.505	\$48.915
3	6	N/A	\$31.790	\$12.200	\$2.330	\$6.350	\$0.720	\$0.505	\$53.895
4	6	N/A	\$34.440	\$12.200	\$2.330	\$6.350	\$0.720	\$3.785	\$59.825
5	6	N/A	\$39.740	\$12.200	\$4.660	\$6.350	\$0.720	\$3.785	\$67.455
6	6	N/A	\$42.380	\$12.200	\$4.660	\$6.350	\$0.720	\$3.785	\$70.095
7	6	N/A	\$47.680	\$12.200	\$6.990	\$6.350	\$0.720	\$7.065	\$81.005
8	6	N/A	\$50.330	\$12.200	\$6.990	\$6.350	\$0.720	\$7.065	\$83.655

FOOTNOTE(S)

Applies only to the City of Los Angeles and the following cities/localities within Los Angeles County: Baldwin Hills, Beverly Hills, Burbank, Culver City, El Segundo, Gardena, Hawthorne, Hermosa Beach, Inglewood, Lawndale, Lennox, Lomita, Manhattan Beach, Marina Del Ray, Rancho Palos Verdes, Redondo Beach, Rolling Hills Estates, San Fernando, Santa Monica, Torrance, Universal City, West Hollywood, Westwood, Westwood Veterans Affairs.

Other includes amounts for Annuity Fund (Except Period 1-3), Admin. Trust (Except Period 1), LMCT (Except Period 1) & WCTF.

*No Predetermined Increases.

Determination: 2025-2

Issue Date: 02-22-2025

Expire Date: 04-30-2025 *

Craft/Classification: Iron Worker

Indentured/Other: Area 4

Shift: 1

Counties: Amador, Butte, Calaveras, Colusa, El Dorado, Fresno, Glenn, Humboldt, Imperial, Kern, Kings, Lake, Los Angeles, Madera, Marin, Mariposa, Mendocino, Merced, Monterey, Napa, Nevada, Orange, Placer, Plumas, Riverside, Sacramento, San Benito, San Bernardino, San Diego, San Joaquin, San Luis Obispo, Santa Barbara, Santa Cruz, Shasta, Sierra, Solano, Sonoma, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Ventura, Yolo, Yuba

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	N/A	\$25.350	\$5.500	\$0.000	\$6.350	\$0.720	\$0.035	\$37.955
2	6	N/A	\$27.890	\$12.200	\$0.000	\$6.350	\$0.720	\$0.505	\$47.665
3	6	N/A	\$30.420	\$12.200	\$2.330	\$6.350	\$0.720	\$0.505	\$52.525
4	6	N/A	\$32.960	\$12.200	\$2.330	\$6.350	\$0.720	\$3.785	\$58.345
5	6	N/A	\$38.030	\$12.200	\$4.660	\$6.350	\$0.720	\$3.785	\$65.745
6	6	N/A	\$40.560	\$12.200	\$4.660	\$6.350	\$0.720	\$3.785	\$68.275
7	6	N/A	\$45.630	\$12.200	\$6.990	\$6.350	\$0.720	\$7.065	\$78.955
8	6	N/A	\$48.170	\$12.200	\$6.990	\$6.350	\$0.720	\$7.065	\$81.495

FOOTNOTE(S)

Applies to the portion of Los Angeles County not covered by Area 3.

Other includes amounts for Annuity Fund (Except Period 1-3), Admin. Trust (Except Period 1), LMCT (Except Period 1) & WCTF.

*No Predetermined Increases.

Determination: 2025-2

Issue Date: 02-22-2025

Expire Date: 04-30-2025 *

Craft/Classification: Iron Worker

Indentured/Other: Area 5

Shift: 1

Counties: Alpine, Del Norte, Inyo, Lassen, Modoc, Mono, Siskiyou, Trinity

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	N/A	\$21.880	\$5.500	\$0.000	\$5.650	\$0.720	\$0.035	\$33.785
2	6	N/A	\$24.060	\$12.200	\$0.000	\$5.650	\$0.720	\$0.505	\$43.135
3	6	N/A	\$26.250	\$12.200	\$2.330	\$5.650	\$0.720	\$0.505	\$47.655
4	6	N/A	\$28.440	\$12.200	\$2.330	\$5.650	\$0.720	\$3.785	\$53.125
5	6	N/A	\$32.810	\$12.200	\$4.660	\$5.650	\$0.720	\$3.785	\$59.825
6	6	N/A	\$35.000	\$12.200	\$4.660	\$5.650	\$0.720	\$3.785	\$62.015
7	6	N/A	\$39.380	\$12.200	\$6.990	\$5.650	\$0.720	\$7.065	\$72.005
8	6	N/A	\$41.560	\$12.200	\$6.990	\$5.650	\$0.720	\$7.065	\$74.185

FOOTNOTE(S)

Other includes amounts for Annuity Fund (Except Period 1-3), Admin. Trust (Except Period 1), LMCT (Except Period 1) & WCTF.

*No Predetermined Increases.

Determination: 2025-2

Issue Date: 02-22-2025

Expire Date: 04-30-2025 *

Craft/Classification: Iron Worker

Indentured/Other: Fence Erector

Shift: 1

Counties: Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Imperial, Inyo, Kern, Kings, Lake, Lassen, Los Angeles, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Mono, Monterey, Napa, Nevada, Orange, Placer, Plumas, Riverside, Sacramento, San Benito, San Bernardino, San Diego, San Francisco, San Joaquin, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Ventura, Yolo, Yuba

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	N/A	\$22.890	\$5.500	\$0.000	\$4.970	\$0.510	\$0.035	\$33.905
2	6	N/A	\$25.180	\$10.030	\$0.000	\$4.970	\$0.510	\$0.175	\$40.865
3	6	N/A	\$27.470	\$10.030	\$1.500	\$4.970	\$0.510	\$0.175	\$44.655
4	6	N/A	\$29.760	\$10.030	\$1.500	\$4.970	\$0.510	\$2.685	\$49.455
5	6	N/A	\$34.340	\$10.030	\$3.000	\$4.970	\$0.510	\$2.685	\$55.535
6	6	N/A	\$36.620	\$10.030	\$3.000	\$4.970	\$0.510	\$2.685	\$57.815
7	6	N/A	\$41.200	\$10.030	\$4.490	\$4.970	\$0.510	\$5.185	\$66.385
8	6	N/A	\$43.490	\$10.030	\$4.490	\$4.970	\$0.510	\$5.185	\$68.675

FOOTNOTE(S)

Other includes amounts for Annuity Fund (Except Period 1-3), Admin. Trust (Except Period 1), LMCT (Except Period 1) & WCTF.

* No Predetermined Increases

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 *

Craft/Classification: Laborer

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	500	\$24.740	\$6.690	\$5.310	\$3.510	\$.800	\$.670	\$41.720
2	N/A	500	\$27.210	\$6.690	\$5.310	\$3.510	\$.800	\$.670	\$44.190
3	N/A	500	\$29.690	\$6.690	\$5.310	\$3.510	\$.800	\$.670	\$46.670
4	N/A	500	\$34.640	\$6.690	\$5.310	\$3.510	\$.800	\$.670	\$51.620
5	N/A	500	\$39.580	\$6.690	\$5.310	\$3.510	\$.800	\$.670	\$56.560
6	N/A	500	\$42.060	\$6.690	\$5.310	\$3.510	\$.800	\$.670	\$59.040

FOOTNOTE(S)

Note: Apprentice rates are based on JM Laborer Group V rates.

Vacation -- Includes an amount for supplemental dues.

Other -- Includes amounts for Center for Contract Compliance, Industry Fund, and Administrative Trust Fund, Contract Administration Fund and Partnership for Jobs Industry Advancement Fund.

*No Predetermined Increases.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 07-31-2026 *

Craft/Classification: Asbestos and Lead Abatement (Laborer)

Indentured/Other: Asbestos and Lead Abatement **Counties:** Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	500	\$24.730	\$6.690	\$5.310	\$3.510	\$.800	\$.670	\$41.710
2	N/A	500	\$27.210	\$6.690	\$5.310	\$3.510	\$.800	\$.670	\$44.190
3	N/A	500	\$29.690	\$6.690	\$5.310	\$3.510	\$.800	\$.670	\$46.670
4	N/A	500	\$34.640	\$6.690	\$5.310	\$3.510	\$.800	\$.670	\$51.620
5	N/A	500	\$39.580	\$6.690	\$5.310	\$3.510	\$.800	\$.670	\$56.560
6	N/A	500	\$42.060	\$6.690	\$5.310	\$3.510	\$.800	\$.670	\$59.040

FOOTNOTE(S)

Note: Apprentice rates are based on JM Laborer Group V rates.

Vacation -- Includes an amount for supplemental dues.

Other -- Includes amounts for Center for Contract Compliance, Industry Fund, and Administrative Trust Fund, Contract Administration Fund and Partnership for Jobs Industry Advancement Fund.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 *

Craft/Classification: Horizontal Directional Drilling (Laborer)

Indentured/Other: Horizontal Directional Drill

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	500	\$24.740	\$6.690	\$5.310	\$3.510	\$.800	\$.670	\$41.720
2	N/A	500	\$27.210	\$6.690	\$5.310	\$3.510	\$.800	\$.670	\$44.190
3	N/A	500	\$29.690	\$6.690	\$5.310	\$3.510	\$.800	\$.670	\$46.670
4	N/A	500	\$34.640	\$6.690	\$5.310	\$3.510	\$.800	\$.670	\$51.620
5	N/A	500	\$39.580	\$6.690	\$5.310	\$3.510	\$.800	\$.670	\$56.560
6	N/A	500	\$42.060	\$6.690	\$5.310	\$3.510	\$.800	\$.670	\$59.040

FOOTNOTE(S)

Note: Apprentice Basic Hourly Rate is based on Group V Journeyman Laborer wage rates.

Vacation -- Includes an amount for Supplemental Dues.

Other -- Includes amounts for Center for Contract Compliance, Industry Fund, Administrative Trust Fund, Contract Administration Fund, and Partnerships for Jobs Industry Advancement Fund.

*No Predetermined Increases.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 07-31-2026 *

Craft/Classification: Landscape/Irrigation Laborer

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	12	N/A	\$22.640	\$6.050	\$3.550	\$1.640	\$2.190	\$.500	\$36.570
2	12	N/A	\$27.050	\$6.050	\$3.550	\$1.640	\$2.260	\$.500	\$41.050
3	12	N/A	\$31.470	\$9.550	\$8.830	\$2.000	\$2.270	\$.500	\$54.620
4	12	N/A	\$35.890	\$9.550	\$8.830	\$2.000	\$2.320	\$.500	\$59.090
5	12	N/A	\$40.320	\$9.550	\$9.170	\$2.480	\$2.350	\$.500	\$64.370

FOOTNOTE(S)

This apprentice determination applies to the journeyman determination for Landscape/Irrigation Laborer/Tender.

Vacation: includes supplemental dues for Period 1-2: \$1.26, Period 3-5: \$1.39.

Other: Includes amounts for CCC, CAF, and Administrative Trust Fund.

*NO PREDETERMINED INCREASES

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 05-31-2026 **

Craft/Classification: Marble Finisher

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	1,000	\$26.080	\$4.940	\$0.000	\$0.000	\$1.210	\$0.210	\$32.440
2	6	1,000	\$28.890	\$7.370	\$0.000	\$0.000	\$1.210	\$0.210	\$37.680
3	6	1,000	\$34.110	\$8.270	\$4.500	\$0.000	\$1.210	\$0.210	\$48.300
4	6	1,000	\$38.520	\$8.370	\$4.500	\$0.000	\$1.210	\$0.210	\$52.810

FOOTNOTE(S)

Basic Hourly Rate: Includes amount withheld for administrative dues.

Training: Includes the amount for International Masonry Institute (IMI)

Other: Includes amounts for Contract admin fund

** Journeyman Predetermined Increases

Effective 6/1/2026, an increase of \$2.79 to be allocated to wages and/or fringes.

Effective 6/1/2027, an increase of \$2.79 to be allocated to wages and/or fringes.

Effective 6/1/2028, an increase of \$2.79 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 email a request to Statistics@dir.ca.gov 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

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 *

Craft/Classification: Millwright

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	650	\$31.340	\$9.500	\$0.000	\$8.460	\$0.770	\$3.640	\$53.710
2	N/A	650	\$32.650	\$9.500	\$0.000	\$8.460	\$0.770	\$3.640	\$55.020
3	N/A	650	\$33.960	\$9.500	\$0.000	\$8.460	\$0.770	\$4.640	\$57.330
4	N/A	650	\$36.570	\$9.500	\$6.410	\$7.460	\$0.770	\$5.640	\$66.350
5	N/A	650	\$39.180	\$9.500	\$6.410	\$7.460	\$0.770	\$5.640	\$68.960
6	N/A	650	\$40.490	\$9.500	\$6.410	\$7.460	\$0.770	\$5.640	\$70.270
7	N/A	650	\$41.790	\$9.500	\$6.410	\$7.460	\$0.770	\$5.640	\$71.570
8	N/A	650	\$44.400	\$9.500	\$6.410	\$7.460	\$0.770	\$5.640	\$74.180
9	N/A	650	\$47.020	\$9.500	\$6.410	\$7.460	\$0.770	\$5.640	\$76.800
10	N/A	650	\$49.630	\$9.500	\$6.410	\$7.460	\$0.770	\$5.640	\$79.410

FOOTNOTE(S)

Vacation & Holiday--Includes amounts for Vacation and Supplemental dues. Vacation (\$5.00 for all periods) is factored at the applicable overtime multiplier.

Other--Includes an amount for Contract Administration, Carpenters Contractors Cooperation Committee, Millwright/Pile Driver Fund for Industry Revitalization, Safety and Training, and Millwright Labor Management Cooperation Committee. For Periods 1-2, includes \$3.00 for Annuity; Period 3, \$4.00 for Annuity; Periods 4-8, \$5.00 for Annuity.

*No predetermined increases.

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 **

Craft/Classification: Operating Engineer

Shift: 1

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	1,000	\$39.710	\$14.200	\$5.000	\$3.950	\$1.100	\$.450	\$64.410
2	N/A	1,000	\$43.020	\$14.200	\$5.000	\$3.950	\$1.100	\$.450	\$67.720
3	N/A	1,000	\$46.330	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$81.680
4	N/A	1,000	\$49.640	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$84.990
5	N/A	1,000	\$52.940	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$88.290
6	N/A	1,000	\$59.560	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$94.910

FOOTNOTE(S)

Operating Engineers Group 13 through 25 apprentice wage rates are based on the applicable journeyman's wage rates for that group.

Pension: Includes an amount for Annuity.

Vacation & Holiday: Includes an amount for Supplemental Dues.

Other: Includes amounts for Industry Fund, Engineers Contract Compliance Committee (ECCC), Contract Administration Fund, and Southern California Partnership for Jobs Fund.

Rates above also apply to crafts:

Tunnel Operating Engineer

Crane, Pile Driver, and Hoisting Equipment Operating Engineer

**JOURNEYMAN PREDETERMINED INCREASES

Effective July 1, 2026, there will be an increase of \$5.00 to be allocated to wages and/or employer payments.

Effective July 1, 2027, there will be an increase of \$4.51 to be allocated to wages and/or employer payments.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please email a request to statistics@dir.ca.gov 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: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 **

Craft/Classification: Operating Engineer

Indentured/Other: Special Shift

Shift: 2

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	1,000	\$40.710	\$14.200	\$5.000	\$3.950	\$1.100	\$.450	\$65.410
2	N/A	1,000	\$44.020	\$14.200	\$5.000	\$3.950	\$1.100	\$.450	\$68.720
3	N/A	1,000	\$47.330	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$82.680
4	N/A	1,000	\$50.640	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$85.990
5	N/A	1,000	\$53.940	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$89.290
6	N/A	1,000	\$60.560	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$95.910

FOOTNOTE(S)

Special Shift Rates

Operating Engineers Group 13 through 25 apprentice wage rates are based on the applicable journeyman's wage rates for that group.

Pension: Includes an amount for Annuity.

Vacation & Holiday: Includes an amount for Supplemental Dues.

Other: Includes amounts for Industry Fund, Engineers Contract Compliance Committee (ECCC), Contract Administration Fund, and Southern California Partnership for Jobs Fund.

Rates above also apply to crafts:

Tunnel Operating Engineer

Crane, Pile Driver, and Hoisting Equipment Operating Engineer

**** JOURNEYMAN PREDETERMINED INCREASES**

Effective July 1, 2026, there will be an increase of \$5.00 to be allocated to wages and/or employer payments.

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San Francisco, CA 94142-0603

Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 **

Craft/Classification: Operating Engineer

Indentured/Other: Multi-shift

Shift: 3

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	1,000	\$40.710	\$14.200	\$5.000	\$3.950	\$1.100	\$.450	\$65.410
2	N/A	1,000	\$44.020	\$14.200	\$5.000	\$3.950	\$1.100	\$.450	\$68.720
3	N/A	1,000	\$47.330	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$82.680
4	N/A	1,000	\$50.640	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$85.990
5	N/A	1,000	\$53.940	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$89.290
6	N/A	1,000	\$60.560	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$95.910

FOOTNOTE(S)

Rates above are for Multi-shift

Operating Engineers Group 13 through 25 apprentice wage rates are based on the applicable journeyman's wage rates for that group.

Pension: Includes an amount for Annuity

Vacation & Holiday: Includes an amount for Supplemental Dues.

Other: Includes amounts for Industry Fund, Engineers Contract Compliance Committee (ECCC), Contract Administration Fund, and Southern California Partnership for Jobs Fund.

Rates above also apply to crafts:

Tunnel Operating Engineer

Crane, Pile Driver, and Hoisting Equipment Operating Engineer

****JOURNEYMAN PREDETERMINED INCREASES**

Effective July 1, 2026, there will be an increase of \$5.00 to be allocated to wages and/or employer payments.

Effective July 1, 2027, there will be an increase of \$4.51 to be allocated to wages and/or employer payments.

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GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2024

Expire Date: 07-31-2025 *

Craft/Classification: Operating Engineer (Dredger)

Indentured/Other: Deckmate

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	1,000	\$34.810	\$13.200	\$18.900	\$7.250	\$1.100	\$.150	\$75.410
2	N/A	1,000	\$37.710	\$13.200	\$18.900	\$7.250	\$1.100	\$.150	\$78.310
3	N/A	1,000	\$40.610	\$13.200	\$18.900	\$7.250	\$1.100	\$.150	\$81.210
4	N/A	1,000	\$43.520	\$13.200	\$18.900	\$7.250	\$1.100	\$.150	\$84.120
5	N/A	1,000	\$46.420	\$13.200	\$18.900	\$7.250	\$1.100	\$.150	\$87.020
6	N/A	1,000	\$52.220	\$13.200	\$18.900	\$7.250	\$1.100	\$.150	\$92.820

FOOTNOTE(S)

Vacation and Holiday: Includes an amount for Supplemental Dues.

Pension: Includes an amount for annuity.

*No Predetermined Increases.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 **

Craft/Classification: Building Construction Inspector

Indentured/Other: Field Soils Material Tester

Shift: 1

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	1,000	\$39.580	\$14.200	\$5.000	\$3.950	\$1.100	\$.450	\$64.280
2	N/A	1,000	\$42.870	\$14.200	\$5.000	\$3.950	\$1.100	\$.450	\$67.570
3	N/A	1,000	\$46.170	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$81.520
4	N/A	1,000	\$49.470	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$84.820
5	N/A	1,000	\$52.770	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$88.120
6	N/A	1,000	\$59.360	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$94.710

FOOTNOTE(S)

Pension: Includes an amount for Annuity

Vacation and Holiday: Includes an amount for Supplemental Dues.

Other: Includes amounts for Industry Fund, Engineers Contract Compliance Committee (ECCC), Contract Administration Fund and Southern California Partnership for Jobs Fund.

**JOURNEYMAN PREDETERMINED INCREASES

Effective July 1, 2026, there will be an increase of \$5.00 to be allocated to wages and/or employer payments.

Effective July 1, 2027, there will be an increase of \$4.51 to be allocated to wages and/or employer payments.

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address:

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Office of the Director - Research Unit

P.O. Box 420603

San Francisco, CA 94142-0603

Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 **

Craft/Classification: Building Construction
Inspector

Indentured/Other: FSMT Special Shift

Shift: 2

Counties: Imperial, Inyo, Kern, Los Angeles,
Mono, Orange, Riverside, San Bernardino, San
Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	1,000	\$40.580	\$14.200	\$5.000	\$3.950	\$1.100	\$.450	\$65.280
2	N/A	1,000	\$43.870	\$14.200	\$5.000	\$3.950	\$1.100	\$.450	\$68.570
3	N/A	1,000	\$47.170	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$82.520
4	N/A	1,000	\$50.470	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$85.820
5	N/A	1,000	\$53.770	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$89.120
6	N/A	1,000	\$60.360	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$95.710

FOOTNOTE(S)

Rates above are for Special Shift.

Pension: Includes an amount for Annuity

Vacation and Holiday: Includes an amount for Supplemental Dues.

Other: Includes amounts for Industry Fund, Engineers Contract Compliance Committee (ECCC), Contract Administration Fund and Southern California Partnership for Jobs Fund.

** JOURNEYMAN PREDETERMINED INCREASES

Effective July 1, 2026, there will be an increase of \$5.00 to be allocated to wages and/or employer payments.

Effective July 1, 2027, there will be an increase of \$4.51 to be allocated to wages and/or employer payments.

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San Francisco, CA 94142-0603

Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 **

Craft/Classification: Building Construction Inspector

Indentured/Other: FSMT Multi Shift

Shift: 3

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	1,000	\$40.580	\$14.200	\$5.000	\$3.950	\$1.100	\$.450	\$65.280
2	N/A	1,000	\$43.870	\$14.200	\$5.000	\$3.950	\$1.100	\$.450	\$68.570
3	N/A	1,000	\$47.170	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$82.520
4	N/A	1,000	\$50.470	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$85.820
5	N/A	1,000	\$53.770	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$89.120
6	N/A	1,000	\$60.360	\$14.200	\$15.650	\$3.950	\$1.100	\$.450	\$95.710

FOOTNOTE(S)

Rates above are for Multi-Shift.

Pension: Includes an amount for Annuity

Vacation and Holiday: Includes an amount for Supplemental Dues.

Other: Includes amounts for Industry Fund, Engineers Contract Compliance Committee (ECCC), Contract Administration Fund and Southern California Partnership for Jobs Fund.

**JOURNEYMAN PREDETERMINED INCREASES

Effective July 1, 2026, there will be an increase of \$5.00 to be allocated to wages and/or employer payments.

Effective July 1, 2027, there will be an increase of \$4.51 to be allocated to wages and/or employer payments.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please email a request to statistics@dir.ca.gov or send to the following address:

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Determination: 2025-2

Issue Date: 02-22-2025

Expire Date: 10-31-2025 *

Craft/Classification: Operating Engineer
(Landscape Construction)

Indentured/Other: Landscape Operating Engineer **Counties:** Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	1,000	\$30.310	\$13.200	\$15.650	\$3.950	\$1.100	\$.150	\$64.360
2	N/A	1,000	\$32.830	\$13.200	\$15.650	\$3.950	\$1.100	\$.150	\$66.880
3	N/A	1,000	\$35.360	\$13.200	\$15.650	\$3.950	\$1.100	\$.150	\$69.410
4	N/A	1,000	\$37.880	\$13.200	\$15.650	\$3.950	\$1.100	\$.150	\$71.930
5	N/A	1,000	\$40.410	\$13.200	\$15.650	\$3.950	\$1.100	\$.150	\$74.460
6	N/A	1,000	\$45.460	\$13.200	\$15.650	\$3.950	\$1.100	\$.150	\$79.510

FOOTNOTE(S)

Vacation & Holiday: Includes an amount for Supplemental Dues.

Pension: Includes an amount for Defined Contribution Plan (Annuity).

Other: Includes an amount for Engineers Contract Compliance Committee.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 *

Craft/Classification: Pile Driver (Carpenter)

Indentured/Other: Pile Driver

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	1,000	\$21.450	\$5.500	\$0.000	\$8.460	\$0.770	\$2.940	\$39.120
2	N/A	600	\$26.190	\$5.500	\$0.000	\$8.460	\$0.770	\$2.940	\$43.860
3	N/A	600	\$31.420	\$9.500	\$0.000	\$8.460	\$0.770	\$3.940	\$54.090
4	N/A	600	\$34.040	\$9.500	\$2.500	\$7.460	\$0.770	\$4.940	\$59.210
5	N/A	600	\$36.660	\$9.500	\$3.500	\$7.460	\$0.770	\$4.940	\$62.830
6	N/A	600	\$39.280	\$9.500	\$3.500	\$7.460	\$0.770	\$4.940	\$65.450
7	N/A	600	\$41.900	\$9.500	\$4.500	\$7.460	\$0.770	\$4.940	\$69.070
8	N/A	600	\$47.130	\$9.500	\$4.500	\$7.460	\$0.770	\$4.940	\$74.300

FOOTNOTE(S)

Vacation & Holiday--Includes an amount for Supplemental Dues.

Other--Includes an amount for Contract Administration, Cooperation Committee, Grievance, Partnership for Jobs & Industry Advancement. For Periods 1-2, includes \$2.50 for Annuity; Period 3, \$3.50 for Annuity; Periods 4-8, \$4.50 for Annuity.

*No predetermined increases.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 *

Craft/Classification: Parking and Highway Improvement (Striper-Laborer)

Shift: 1

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	800	\$31.020	\$6.690	\$5.310	\$2.630	\$.550	\$.000	\$46.200
2	N/A	1,000	\$36.280	\$6.690	\$5.310	\$2.630	\$.550	\$.000	\$51.460
3	N/A	1,000	\$39.460	\$7.640	\$5.910	\$3.680	\$1.470	\$.500	\$58.660
4	N/A	1,000	\$42.090	\$7.640	\$5.910	\$3.680	\$1.470	\$.500	\$61.290

FOOTNOTE(S)

Apprentice Wage & Benefit Rates are calculated based on Group 3 Journeyman rates.

Vacation/Holiday - Includes amount for supplemental dues

Other - Includes amount for Center for Contract Compliance, Industry Fund, and Contract Administration Fund.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 **

Craft/Classification: Painter

Indentured/Other: IMP LOS ORA SBR SDI RIV

Shift: 1

Counties: Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	900	\$21.710	\$7.250	\$1.510	\$1.190	\$0.750	\$1.210	\$33.620
2	6	900	\$22.140	\$7.550	\$1.560	\$1.230	\$0.750	\$1.210	\$34.440
3	6	900	\$23.190	\$8.470	\$2.170	\$1.470	\$0.750	\$1.210	\$37.260
4	6	900	\$25.130	\$9.200	\$2.910	\$1.550	\$0.750	\$1.210	\$40.750
5	6	900	\$27.070	\$9.200	\$3.090	\$2.190	\$0.750	\$1.210	\$43.510
6	6	900	\$29.030	\$9.200	\$3.940	\$2.270	\$0.750	\$1.210	\$46.400
7	6	900	\$30.990	\$9.200	\$4.550	\$2.380	\$0.990	\$1.210	\$49.320
8	6	900	\$32.930	\$9.200	\$4.680	\$2.460	\$1.700	\$1.210	\$52.180

FOOTNOTE(S)

Rates apply to Los Angeles County outside of the Antelope Valley

Basic Hourly Rate -- includes amount withheld for working dues.

Other --includes LMCC Fund contribution.

** JOURNEYMAN PREDETERMINED INCREASES:

Effective 7/1/2026: an increase of \$3.00 to be allocated as follows: \$2.25 to the Basic Hourly Rate, \$0.25 to Pension and \$0.50 to Vacation.

Effective 7/1/2027: an increase of \$3.00 to be allocated as follows: \$0.25 to Health and Welfare and \$2.75 to wages and/or fringes.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please e-mail a request to statistics@dir.ca.gov 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: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 **

Craft/Classification: Painter

Indentured/Other: IMP LOS ORA SBR SDI RIV

Shift: 2

Counties: Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	900	\$24.420	\$7.250	\$1.510	\$1.190	\$.750	\$1.210	\$36.330
2	6	900	\$24.910	\$7.550	\$1.560	\$1.230	\$.750	\$1.210	\$37.210
3	6	900	\$26.090	\$8.470	\$2.170	\$1.470	\$.750	\$1.210	\$40.160
4	6	900	\$28.270	\$9.200	\$2.910	\$1.550	\$.750	\$1.210	\$43.890
5	6	900	\$30.450	\$9.200	\$3.090	\$2.190	\$.750	\$1.210	\$46.890
6	6	900	\$32.660	\$9.200	\$3.940	\$2.270	\$.750	\$1.210	\$50.030
7	6	900	\$34.860	\$9.200	\$4.550	\$2.380	\$.990	\$1.210	\$53.190
8	6	900	\$37.050	\$9.200	\$4.680	\$2.460	\$1.700	\$1.210	\$56.300

FOOTNOTE(S)

Rates apply to Los Angeles County outside of the Antelope Valley

Basic Hourly Rate -- includes amount withheld for working dues.

Other --includes LMCC Fund contribution.

****JOURNEYMAN PREDETERMINED INCREASES:**

Effective 7/1/2026: an increase of \$3.00 to be allocated as follows: \$2.25 to the Basic Hourly Rate, \$0.25 to Pension and \$0.50 to Vacation.

Effective 7/1/2027: an increase of \$3.00 to be allocated as follows: \$0.25 to Health and Welfare and \$2.75 to wages and/or fringes.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please e-mail a request to statistics@dir.ca.gov 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: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 **

Craft/Classification: Painter

Indentured/Other: INY KER MON

Shift: 1

Counties: Inyo, Kern, Los Angeles (Antelope Valley Area), Mono

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	900	\$21.910	\$7.250	\$1.680	\$1.230	\$0.750	\$1.210	\$34.030
2	6	900	\$22.260	\$7.550	\$1.740	\$1.270	\$0.750	\$1.210	\$34.780
3	6	900	\$23.020	\$8.470	\$2.000	\$1.510	\$0.750	\$1.210	\$36.960
4	6	900	\$24.590	\$9.200	\$2.460	\$1.590	\$0.750	\$1.210	\$39.800
5	6	900	\$26.200	\$9.200	\$2.580	\$2.200	\$0.750	\$1.210	\$42.140
6	6	900	\$27.730	\$9.200	\$3.240	\$2.280	\$0.750	\$1.210	\$44.410
7	6	900	\$29.330	\$9.200	\$3.910	\$2.360	\$0.750	\$1.210	\$46.760
8	6	900	\$30.910	\$9.200	\$4.590	\$2.440	\$0.750	\$1.210	\$49.100

FOOTNOTE(S)

Rates apply only 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.

Basic Hourly Rate -- includes amount withheld for working dues.

Other --includes LMCC Fund contribution.

**** JOURNEYMAN PREDETERMINED INCREASES:**

Effective 7/1/2026: an increase of \$3.00 to be allocated as follows: \$2.25 to the Basic Hourly Rate, \$0.25 to Pension and \$0.50 to Vacation.

Effective 7/1/2027: an increase of \$3.00 to be allocated as follows: \$0.25 to Health and Welfare and \$2.75 to wages and/or fringes.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please e-mail a request to statistics@dir.ca.gov or send to the following address:

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Office of the Director-Research Unit

P.O. Box 420603

San Francisco, CA 94142-0603

Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 **

Craft/Classification: Painter

Indentured/Other: INY KER MON

Shift: 2

Counties: Inyo, Kern, Los Angeles (Antelope Valley Area), Mono

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	900	\$24.650	\$7.250	\$1.680	\$1.230	\$0.750	\$1.210	\$36.770
2	6	900	\$25.040	\$7.550	\$1.740	\$1.270	\$0.750	\$1.210	\$37.560
3	6	900	\$25.900	\$8.470	\$2.000	\$1.510	\$0.750	\$1.210	\$39.840
4	6	900	\$27.660	\$9.200	\$2.460	\$1.590	\$0.750	\$1.210	\$42.870
5	6	900	\$29.480	\$9.200	\$2.580	\$2.200	\$0.750	\$1.210	\$45.420
6	6	900	\$31.200	\$9.200	\$3.240	\$2.280	\$0.750	\$1.210	\$47.880
7	6	900	\$33.000	\$9.200	\$3.910	\$2.360	\$0.750	\$1.210	\$50.430
8	6	900	\$34.770	\$9.200	\$4.590	\$2.440	\$0.750	\$1.210	\$52.960

FOOTNOTE(S)

Rates apply only 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.

Basic Hourly Rate -- includes amount withheld for working dues.

Other --includes LMCC Fund contribution.

**JOURNEYMAN PREDETERMINED INCREASES:

Effective 7/1/2026: an increase of \$3.00 to be allocated as follows: \$2.25 to the Basic Hourly Rate, \$0.25 to Pension and \$0.50 to Vacation.

Effective 7/1/2027: an increase of \$3.00 to be allocated as follows: \$0.25 to Health and Welfare and \$2.75 to wages and/or fringes.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please e-mail a request to statistics@dir.ca.gov or send to the following address:

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San Francisco, CA 94142-0603

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 **

Craft/Classification: Industrial Painter

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	900	\$23.660	\$7.250	\$1.640	\$1.330	\$.850	\$1.210	\$35.940
2	N/A	900	\$26.030	\$7.550	\$1.800	\$1.390	\$.850	\$1.210	\$38.830
3	N/A	900	\$28.390	\$8.470	\$2.480	\$1.660	\$.850	\$1.210	\$43.060
4	N/A	900	\$30.760	\$9.200	\$3.240	\$1.770	\$.850	\$1.210	\$47.030
5	N/A	900	\$33.120	\$9.200	\$3.440	\$2.420	\$.850	\$1.210	\$50.240
6	N/A	900	\$35.490	\$9.200	\$4.310	\$2.530	\$.850	\$1.210	\$53.590
7	N/A	900	\$37.860	\$9.200	\$4.920	\$2.640	\$1.090	\$1.210	\$56.920
8	N/A	900	\$40.220	\$9.200	\$5.080	\$2.730	\$1.800	\$1.210	\$60.240

FOOTNOTE(S)

Basic Hourly Rate - Includes an amount withheld for working dues.

Other - Includes an amount for Labor Management Cooperation Committee (LMCC).

**** JOURNEYMAN PREDETERMINED INCREASES:**

Effective 7/1/2026: an increase of \$3.50 to be allocated as follows: \$2.75 to the Basic Hourly Rate, \$0.25 to Pension and \$0.50 to Vacation.

Effective 7/1/2027: an increase of \$3.50 to be allocated as follows: \$0.25 to Health and Welfare and \$3.25 to wages and/or fringes.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please e-mail a request to statistics@dir.ca.gov 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: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 **

Craft/Classification: Industrial Painter

Shift: 2

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	900	\$26.620	\$7.250	\$1.640	\$1.330	\$.850	\$1.210	\$38.900
2	N/A	900	\$29.280	\$7.550	\$1.800	\$1.390	\$.850	\$1.210	\$42.080
3	N/A	900	\$31.940	\$8.470	\$2.480	\$1.660	\$.850	\$1.210	\$46.610
4	N/A	900	\$34.610	\$9.200	\$3.240	\$1.770	\$.850	\$1.210	\$50.880
5	N/A	900	\$37.260	\$9.200	\$3.440	\$2.420	\$.850	\$1.210	\$54.380
6	N/A	900	\$39.930	\$9.200	\$4.310	\$2.530	\$.850	\$1.210	\$58.030
7	N/A	900	\$42.590	\$9.200	\$4.920	\$2.640	\$1.090	\$1.210	\$61.650
8	N/A	900	\$45.250	\$9.200	\$5.080	\$2.730	\$1.800	\$1.210	\$65.270

FOOTNOTE(S)

Basic Hourly Rate - Includes an amount withheld for working dues.

Other - Includes an amount for Labor Management Cooperation Committee (LMCC).

****JOURNEYMAN PREDETERMINED INCREASES:**

Effective 7/1/2026: an increase of \$3.50 to be allocated as follows: \$2.75 to the Basic Hourly Rate, \$0.25 to Pension and \$0.50 to Vacation.

Effective 7/1/2027: an increase of \$3.50 to be allocated as follows: \$0.25 to Health and Welfare and \$3.25 to wages and/or fringes.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please e-mail a request to statistics@dir.ca.gov or send to the following address:

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Office of the Director-Research Unit

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San Francisco, CA 94142-0603

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 07-31-2026 *

Craft/Classification: Plasterer

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	852	\$23.150	\$9.630	\$0.000	\$6.970	\$0.000	\$0.000	\$39.750
2	8	1,135	\$25.430	\$9.630	\$11.310	\$7.090	\$1.490	\$1.190	\$56.140
3	10	1,419	\$27.710	\$9.630	\$11.310	\$7.330	\$1.490	\$1.190	\$58.660
4	10	1,419	\$32.330	\$9.630	\$11.310	\$7.570	\$1.490	\$1.190	\$63.520
5	8	1,135	\$36.940	\$9.630	\$11.310	\$7.800	\$1.490	\$1.190	\$68.360
6	6	851	\$41.560	\$9.630	\$11.310	\$8.040	\$1.490	\$1.190	\$73.220

FOOTNOTE(S)

Vacation/Holiday: Includes an amount for Dues Check Off

Other: Includes amounts for Work Preservation (Periods 2-6), Administrative Promotion (Periods 2-6) fund, and Vacation Administration (Periods 2-6).

*No predetermined increases applicable.

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: 2025-2

Issue Date: 08-22-2025

Expire Date: 08-04-2026 *

Craft/Classification: Plaster Tender

Shift: 1

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	600	\$21.920	\$5.730	\$5.190	\$5.300	\$1.200	\$0.060	\$39.400
2	6	600	\$24.360	\$6.690	\$6.890	\$5.300	\$1.200	\$0.060	\$44.500
3	6	600	\$29.230	\$7.640	\$8.580	\$5.300	\$1.200	\$0.060	\$52.010
4	6	600	\$34.100	\$8.600	\$10.280	\$5.300	\$1.200	\$0.060	\$59.540
5	6	600	\$38.980	\$8.600	\$10.700	\$5.300	\$1.200	\$0.060	\$64.840
6	6	600	\$43.850	\$8.600	\$11.120	\$5.300	\$1.200	\$0.060	\$70.130

FOOTNOTE(S)

Vacation/Holiday Fund -- Includes amount for Supplemental Dues (\$2.05).

*No Predetermined Increases.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 08-31-2026 *

Craft/Classification: Plumber, Pipefitter, Steamfitter

Shift: 1

Counties: Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	12	N/A	\$28.190	\$0.000	\$.380	\$.000	\$2.280	\$1.530	\$32.380
2	12	N/A	\$31.400	\$9.860	\$.380	\$.000	\$2.350	\$1.590	\$45.580
3	12	N/A	\$37.530	\$9.360	\$8.480	\$.000	\$2.360	\$1.590	\$59.320
4	12	N/A	\$43.650	\$9.360	\$8.860	\$.000	\$2.410	\$1.590	\$65.870
5	12	N/A	\$49.770	\$9.360	\$9.290	\$.000	\$2.440	\$1.590	\$72.450

FOOTNOTE(S)

Basic Hourly Rate: includes an amount withheld for Dues Check Off which is not factored into overtime and an amount for Vacation factored at 1.5 times for all overtime. Dues Check Off: Period 1: \$1.45, Periods 2-5: \$1.95. Vacation: Period 1: \$1.96, Period 2: \$2.26, Period 3: \$2.56, Period 4: \$2.85, Period 5: \$3.15

Pension: Includes amounts for Pension, National Pension and Retiree's Christmas Fund

Vacation: Included in the Basic Hourly Rate, factored at 1.5 times for all overtime.

Other: Includes amounts for PIPE, LMCC, and CED (Contractor Education Development Fund)

*No predetermined increases.

Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 08-31-2026 *

Craft/Classification: Plumber, Pipefitter, Steamfitter

Shift: 2

Counties: Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego, San Luis

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	12	N/A	\$32.120	\$0.000	\$0.380	\$0.000	\$2.280	\$1.530	\$36.310
2	12	N/A	\$35.770	\$9.860	\$0.380	\$0.000	\$2.350	\$1.590	\$49.950
3	12	N/A	\$42.770	\$9.360	\$8.480	\$0.000	\$2.360	\$1.590	\$64.560
4	12	N/A	\$49.770	\$9.360	\$8.860	\$0.000	\$2.410	\$1.590	\$71.990
5	12	N/A	\$56.770	\$9.360	\$9.290	\$0.000	\$2.440	\$1.590	\$79.450

FOOTNOTE(S)

These Rates are for SHIFT 2 PAY.

Basic Hourly Rate: Includes an amount withheld for Dues Check Off which is not factored into overtime and an amount for Vacation factored at 1.5 times for all overtime. Dues Check Off: Period 1: \$1.45, Period 2-5: \$1.95. Vacation: Period 1: \$1.96, Period 2: \$2.26, Period 3: \$2.56, Period 4: \$2.85, Period 5: \$3.15

Pension: Includes amounts for Pension, National Pension and Retiree's Christmas Fund.

Vacation: Included in the basic hourly rate, and factored at 1.5 for all overtime.

Other: Includes amounts for PIPE, LMCC, and CED (Contractor Education Development Fund)

*No predetermined increases.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 08-31-2026 *

Craft/Classification: Landscape/Irrigation Fitter

Shift: 1

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	12	N/A	\$22.640	\$9.860	\$.380	\$.000	\$2.190	\$1.450	\$36.520
2	12	N/A	\$27.050	\$9.860	\$.380	\$.000	\$2.260	\$1.450	\$41.000
3	12	N/A	\$31.470	\$9.360	\$10.020	\$.000	\$2.270	\$1.450	\$54.570
4	12	N/A	\$35.890	\$9.360	\$10.020	\$.000	\$2.320	\$1.450	\$59.040
5	12	N/A	\$40.320	\$9.360	\$10.840	\$.000	\$2.350	\$1.450	\$64.320

FOOTNOTE(S)

This apprentice determination applies to the journeyman determinations for Plumber: Landscape/Irrigation Fitter.

Basic Hourly Rate: Includes amount withheld for D.C. Dues, Work Preservation Dues, and Supplemental Working Dues and an amount for Vacation that is factored at 1.5 times for all overtime. Vacation: Period 1: \$1.72, Period 2: \$1.95, Period 3: \$2.18, Period 4: \$2.42, Period 5: \$2.66

Pension: Includes amount for National Pension and Retiree's X-mas Fund.

Vacation: Included in the basic hourly rate, and factored at 1.5 for all overtime.

Other: Includes amount for PIPE, LMCC, and CED.

*No predetermined increases.

Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 08-31-2026 *

Craft/Classification: Landscape/Irrigation Fitter

Shift: 2

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San

Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	12	N/A	\$25.780	\$9.860	\$.380	\$.000	\$2.190	\$1.450	\$39.660
2	12	N/A	\$30.820	\$9.860	\$.380	\$.000	\$2.260	\$1.450	\$44.770
3	12	N/A	\$35.860	\$9.360	\$10.020	\$.000	\$2.270	\$1.450	\$58.960
4	12	N/A	\$40.910	\$9.360	\$10.020	\$.000	\$2.320	\$1.450	\$64.060
5	12	N/A	\$45.960	\$9.360	\$10.840	\$.000	\$2.350	\$1.450	\$69.960

FOOTNOTE(S)

Shift 2

This apprentice determination applies to the journeyman determinations for Plumber: Landscape/Irrigation Fitter.

Basic Hourly Rate: Includes amounts for D.C. Dues, Work Preservation Dues, and Supplemental Working Dues and an amount for Vacation which is factored at 1.5 times for all overtime. Vacation amounts are as follows: Period 1: \$1.72, Period 2: \$1.95, Period 3: \$2.18, Period 4: \$2.42, Period 5: \$2.66.

Pension: Includes amount for National Pension and Retiree's X-mas Fund.

Vacation included in the basic hourly rate, and factored at 1.5 for all overtime.

Other: Includes amount for PIPE, LMCC, and CED.

*No predetermined increases.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2024

Expire Date: 06-30-2025 *

Craft/Classification: Roofer

Counties: Imperial, San Diego

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	600	\$21.400	\$9.060	\$2.620	\$0.000	\$0.500	\$0.060	\$33.640
2	6	600	\$25.680	\$9.060	\$2.620	\$0.000	\$0.500	\$0.060	\$37.920
3	6	600	\$26.320	\$9.060	\$3.020	\$1.500	\$0.500	\$0.060	\$40.460
4	6	600	\$28.460	\$9.060	\$3.020	\$1.500	\$0.500	\$0.060	\$42.600
5	6	600	\$30.600	\$9.060	\$3.020	\$1.500	\$0.500	\$0.060	\$44.740
6	6	600	\$32.740	\$9.060	\$3.020	\$1.500	\$0.500	\$0.060	\$46.880
7	6	600	\$37.020	\$9.060	\$3.020	\$1.500	\$0.500	\$0.060	\$51.160

FOOTNOTE(S)

On any job where coal tar pitch or coal pitch products are used, all workers shall be paid a premium of \$1.50 per hour over the Basic Hourly Rate. This also includes scrape off, tear off and application of liquids containing coal tar pitch.

BHR - Includes amount for Work Assessment Dues that is not factored into overtime (Period 1-2: \$1.10. Period 3-5: \$1.35. Period 6-7: \$1.60).

VACATION/HOLIDAY - Amount for Vacation/Holiday is not factored in Overtime. Vacation may be included in the Basic Hourly Rate.

*No predetermined increases applicable.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 *

Craft/Classification: Sheet Metal Worker (HVAC)

Shift: 1

Counties: Imperial, San Diego

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	N/A	\$27.160	\$8.200	\$3.850	\$0.000	\$1.160	\$0.740	\$41.110
2	6	N/A	\$28.790	\$8.200	\$4.030	\$0.000	\$1.160	\$0.740	\$42.920
3	6	N/A	\$30.420	\$8.200	\$4.220	\$0.000	\$1.160	\$0.740	\$44.740
4	6	N/A	\$32.050	\$8.200	\$4.400	\$0.000	\$1.160	\$0.740	\$46.550
5	6	N/A	\$33.680	\$8.200	\$4.590	\$0.000	\$1.160	\$0.740	\$48.370
6	6	N/A	\$35.310	\$8.200	\$4.770	\$0.000	\$1.160	\$0.740	\$50.180
7	6	N/A	\$36.940	\$11.330	\$4.960	\$0.000	\$1.160	\$0.740	\$55.130
8	6	N/A	\$38.570	\$11.330	\$5.140	\$0.000	\$1.160	\$0.740	\$56.940
9	6	N/A	\$40.200	\$11.330	\$5.330	\$0.000	\$1.160	\$0.740	\$58.760
10	6	N/A	\$42.910	\$11.330	\$5.640	\$0.000	\$1.160	\$0.740	\$61.780

FOOTNOTE(S)

Basic Hourly Rate - Includes an amount for working dues (\$0.70 for Periods 1-2; \$0.75 for Periods 3-4, \$0.80 for Periods 5-6; \$0.85 for Periods 7-8; \$0.90 for Periods 9-10).

Health & Welfare - Includes an amount for SMOHIT (\$0.02).

Pension - Includes an amount for 401(a) Plan (\$0.25). 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.

Training - Includes an amount for The International Training Institute (\$0.12).

Other - Includes amounts for Industry Fund (\$0.70), NEMI (\$0.03), and SMWSF (\$0.01).

*No predetermined increases.

Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 *

Craft/Classification: Sheet Metal Worker (HVAC)

Shift: 2

Counties: Imperial, San Diego

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	N/A	\$29.200	\$8.200	\$3.850	\$0.000	\$1.160	\$0.740	\$43.150
2	6	N/A	\$30.950	\$8.200	\$4.030	\$0.000	\$1.160	\$0.740	\$45.080
3	6	N/A	\$32.700	\$8.200	\$4.220	\$0.000	\$1.160	\$0.740	\$47.020
4	6	N/A	\$34.450	\$8.200	\$4.400	\$0.000	\$1.160	\$0.740	\$48.950
5	6	N/A	\$36.210	\$8.200	\$4.590	\$0.000	\$1.160	\$0.740	\$50.900
6	6	N/A	\$37.960	\$8.200	\$4.770	\$0.000	\$1.160	\$0.740	\$52.830
7	6	N/A	\$39.710	\$11.330	\$4.960	\$0.000	\$1.160	\$0.740	\$57.900
8	6	N/A	\$41.460	\$11.330	\$5.140	\$0.000	\$1.160	\$0.740	\$59.830
9	6	N/A	\$43.220	\$11.330	\$5.330	\$0.000	\$1.160	\$0.740	\$61.780
10	6	N/A	\$46.130	\$11.330	\$5.640	\$0.000	\$1.160	\$0.740	\$65.000

FOOTNOTE(S)

Basic Hourly Rate - Includes an amount for working dues (\$0.70 for Periods 1-2; \$0.75 for Periods 3-4, \$0.80 for Periods 5-6; \$0.85 for Periods 7-8; \$0.90 for Periods 9-10).

Health & Welfare - Includes an amount for SMOHIT (\$0.02).

Pension - Includes an amount for 401(a) Plan (\$0.25). 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.

Training - Includes an amount for The International Training Institute (\$0.12).

Other - Includes amounts for Industry Fund (\$0.70), NEMI (\$0.03), and SMWSF (\$0.01).

*No predetermined increases.

Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 *

Craft/Classification: Sheet Metal Worker (HVAC)

Shift: 3

Counties: Imperial, San Diego

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	N/A	\$31.230	\$8.200	\$3.850	\$0.000	\$1.160	\$0.740	\$45.180
2	6	N/A	\$33.110	\$8.200	\$4.030	\$0.000	\$1.160	\$0.740	\$47.240
3	6	N/A	\$34.980	\$8.200	\$4.220	\$0.000	\$1.160	\$0.740	\$49.300
4	6	N/A	\$36.860	\$8.200	\$4.400	\$0.000	\$1.160	\$0.740	\$51.360
5	6	N/A	\$38.730	\$8.200	\$4.590	\$0.000	\$1.160	\$0.740	\$53.420
6	6	N/A	\$40.610	\$8.200	\$4.770	\$0.000	\$1.160	\$0.740	\$55.480
7	6	N/A	\$42.480	\$11.330	\$4.960	\$0.000	\$1.160	\$0.740	\$60.670
8	6	N/A	\$44.360	\$11.330	\$5.140	\$0.000	\$1.160	\$0.740	\$62.730
9	6	N/A	\$46.230	\$11.330	\$5.330	\$0.000	\$1.160	\$0.740	\$64.790
10	6	N/A	\$49.350	\$11.330	\$5.640	\$0.000	\$1.160	\$0.740	\$68.220

FOOTNOTE(S)

Basic Hourly Rate - Includes an amount for working dues (\$0.70 for Periods 1-2; \$0.75 for Periods 3-4, \$0.80 for Periods 5-6; \$0.85 for Periods 7-8; \$0.90 for Periods 9-10).

Health & Welfare - Includes an amount for SMOHIT (\$0.02).

Pension - Includes an amount for 401(a) Plan (\$0.25). 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.

Training - Includes an amount for The International Training Institute (\$0.12).

Other - Includes amounts for Industry Fund (\$0.70), NEMI (\$0.03), and SMWSF (\$0.01).

*No predetermined increases.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 06-30-2026 **

Craft/Classification: Teamster

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	600	\$25.870	\$15.310	\$5.000	\$3.250	\$2.020	\$.610	\$52.060
2	N/A	600	\$28.030	\$15.310	\$5.000	\$3.250	\$2.020	\$.610	\$54.220
3	N/A	600	\$30.180	\$15.310	\$5.000	\$3.250	\$2.020	\$.610	\$56.370
4	N/A	600	\$32.340	\$15.310	\$5.000	\$3.250	\$2.020	\$.610	\$58.530
5	N/A	600	\$36.650	\$15.310	\$5.000	\$3.250	\$2.020	\$.610	\$62.840
6	N/A	600	\$40.960	\$15.310	\$5.000	\$3.250	\$2.020	\$.610	\$67.150

FOOTNOTE(S)

Vacation & Holiday - Includes Amount for Supplemental Dues.

Apprentice rates based on Group X Journeyman Rates.

** JOURNEYMAN PREDETERMINED INCREASES:

Eff. 7/1/2026 - an increase of \$3.21 to be allocated to wages and/or fringes.

Eff. 7/1/2027 - an increase of \$3.01 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 e-mail a request to statistics@dir.ca.gov 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

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 05-31-2026 **

Craft/Classification: Terrazzo Installer (Carpenter)

Indentured/Other: Terrazzo Installer (Carpenter)

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	600	\$24.450	\$0.000	\$0.000	\$1.840	\$0.000	\$0.000	\$26.290
2	N/A	600	\$29.330	\$8.500	\$0.000	\$5.840	\$0.670	\$0.000	\$44.340
3	N/A	600	\$34.220	\$8.500	\$0.000	\$5.840	\$0.670	\$0.000	\$49.230
4	N/A	1,000	\$41.560	\$8.500	\$6.410	\$5.840	\$0.670	\$0.000	\$62.980
5	N/A	800	\$42.530	\$8.500	\$6.410	\$5.840	\$0.670	\$0.000	\$63.950
6	N/A	800	\$44.000	\$8.500	\$6.410	\$5.840	\$0.670	\$0.000	\$65.420
7	N/A	800	\$45.470	\$8.500	\$6.410	\$5.840	\$0.670	\$0.000	\$66.890
8	N/A	800	\$47.420	\$8.500	\$6.410	\$5.840	\$0.670	\$0.000	\$68.840

FOOTNOTE(S)

Vacation/Holiday includes an amount for Supplemental Dues.

** Journeyman Predetermined Increases

Effective June 1, 2026: \$4.00 to be allocated to wages and/or employer payments.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please e-mail a request to statistics@dir.ca.gov or send to the following address:

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Office of the Director - Research Unit

P.O. Box 420603

San Francisco, CA 94142-0603

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 08-31-2026 *

Craft/Classification: Terrazzo Finisher

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	1,000	\$22.570	\$3.480	\$0.000	\$0.000	\$0.760	\$0.330	\$27.140
2	6	1,000	\$27.080	\$7.210	\$4.710	\$0.000	\$0.760	\$0.330	\$40.090
3	6	1,000	\$33.850	\$8.610	\$4.710	\$0.000	\$0.760	\$0.330	\$48.260
4	6	1,000	\$36.100	\$8.610	\$4.710	\$0.000	\$0.760	\$0.330	\$50.510

FOOTNOTE(S)

Basic Hourly Rate--Includes amount for Dues check off.

Vacation/Holiday--Included in straight time hourly rate.

Other--Compliance Trust Fund.

* There is no apprentice increase for this determination.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 08-31-2026 *

Craft/Classification: Terrazzo Worker

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	1,000	\$26.340	\$9.250	\$4.860	\$0.000	\$1.340	\$0.390	\$42.180
2	6	1,000	\$28.970	\$9.250	\$4.860	\$0.000	\$1.340	\$0.390	\$44.810
3	6	1,000	\$31.600	\$9.250	\$4.860	\$0.000	\$1.340	\$0.390	\$47.440
4	6	1,000	\$34.240	\$9.250	\$4.860	\$0.000	\$1.340	\$0.390	\$50.080
5	6	1,000	\$39.500	\$9.250	\$4.860	\$0.000	\$1.340	\$0.390	\$55.340
6	6	1,000	\$42.140	\$9.250	\$4.860	\$0.000	\$1.340	\$0.390	\$57.980

FOOTNOTE(S)

Basic Hourly Rate--Includes amount for Dues check off.

Vacation/Holiday--Included in straight time hourly rate.

Other--Compliance Trust Fund.

* There is no apprentice increase for this determination.

GENERAL PREVAILING WAGE APPRENTICE RATES

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 05-31-2026 **

Craft/Classification: Terrazzo Finisher (Carpenter)

Indentured/Other: Terrazzo Finisher (Carpenter)

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	N/A	1,000	\$21.450	\$.000	\$.000	\$1.840	\$0.000	\$.000	\$23.290
2	N/A	800	\$21.450	\$8.500	\$.000	\$5.840	\$.670	\$.000	\$36.460
3	N/A	800	\$23.310	\$8.500	\$.000	\$5.840	\$.670	\$.000	\$38.320
4	N/A	800	\$25.430	\$8.500	\$.000	\$5.840	\$.670	\$.000	\$40.440
5	N/A	800	\$29.670	\$8.500	\$6.410	\$5.840	\$.670	\$.000	\$51.090
6	N/A	800	\$33.910	\$8.500	\$6.410	\$5.840	\$.670	\$.000	\$55.330

FOOTNOTE(S)

Vacation/Holiday includes an amount for Supplemental Dues.

** Journeyman Predetermined Increases

Effective June 1, 2026: \$4.00 to be allocated to wages and/or employer payments.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please e-mail a request to statistics@dir.ca.gov or send to the following address:

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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: 2025-2

Issue Date: 08-22-2025

Expire Date: 05-31-2026 **

Craft/Classification: Tile Layer

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	1,000	\$24.460	\$9.250	\$0.000	\$0.000	\$1.510	\$0.620	\$35.840
2	6	1,000	\$27.720	\$9.250	\$0.000	\$0.000	\$1.510	\$0.620	\$39.100
3	6	1,000	\$31.530	\$9.250	\$9.850	\$0.000	\$1.510	\$0.620	\$52.760
4	6	1,000	\$34.790	\$9.250	\$9.850	\$0.000	\$1.510	\$0.620	\$56.020
5	6	1,000	\$38.050	\$9.250	\$9.850	\$0.000	\$1.510	\$0.620	\$59.280
6	6	1,000	\$41.310	\$9.250	\$9.850	\$0.000	\$1.510	\$0.620	\$62.540
7	6	1,000	\$47.840	\$9.250	\$9.850	\$0.000	\$1.510	\$0.620	\$69.070
8	6	1,000	\$51.100	\$9.250	\$9.850	\$0.000	\$1.510	\$0.620	\$72.330

FOOTNOTE(S)

Basic Hourly Rate: Includes amount withheld for Administrative Dues.

Training: Includes amounts for International Masonry Institute (IMI) and Labor Management Cooperation Committee (L/M).

Other: Includes amounts for Contract Administration Fund (CAF) and Labor Compliance.

** Journeyman Predetermined Increases

Effective 6/1/2026, an increase of \$3.54 to be allocated to wages and/or fringes.

Effective 6/1/2027, an increase of \$3.54 to be allocated to wages and/or fringes.

Effective 6/1/2028, an increase of \$3.54 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 email a request to Statistics@dir.ca.gov 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

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Determination: 2025-2

Issue Date: 08-22-2025

Expire Date: 05-31-2026 **

Craft/Classification: Tile Finisher

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

Period	Duration Months	OJT Hours	Basic Hourly Rate	Health & Welfare	Pension	Vacation/Holiday	Training	Other	Total Hourly Rate
1	6	1,000	\$26.080	\$4.940	\$0.000	\$0.000	\$1.210	\$0.210	\$32.440
2	6	1,000	\$28.890	\$7.370	\$0.000	\$0.000	\$1.210	\$0.210	\$37.680
3	6	1,000	\$34.110	\$8.270	\$4.500	\$0.000	\$1.210	\$0.210	\$48.300
4	6	1,000	\$38.520	\$8.370	\$4.500	\$0.000	\$1.210	\$0.210	\$52.810

FOOTNOTE(S)

Basic Hourly Rate: Includes amount withheld for administrative dues

Training: Includes the amount for International Masonry Institute (IMI)

Other: Includes amount for Contract Administration Fund.

** Journeyman Predetermined Increases

Effective 6/1/2026, an increase of \$2.79 to be allocated to wages and/or fringes.

Effective 6/1/2027, an increase of \$2.79 to be allocated to wages and/or fringes.

Effective 6/1/2028, an increase of \$2.79 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 email a request to Statistics@dir.ca.gov or send to the following address:

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Appendix B

Technical Specifications and Special Conditions

Technical Specifications and Special Conditions as prepared by The Holt Group, Inc.
dated 10/24/2025.

CITY OF IMPERIAL

WASTEWATER TREATMENT PLANT DEMOLITION PROJECT



TECHNICAL SPECIFICATIONS

APPENDIX B
OCTOBER 24, 2025



CITY OF IMPERIAL BID NO. 2025-019
THG PROJECT NUMBER: 173.138

TECHNICAL SPECIFICATIONS

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1. DEMOLITION REQUIREMENTS

This project shall be completed in conformance with the Improvement Plans, Technical Specifications and Special Conditions of these contract documents which were prepared specifically for this project and supersede the City of Imperial Municipal mandatory construction and demolition recycling program ordinance prepared for private construction and demolition projects within the City of Imperial. The Technical Specifications and Special Conditions were prepared in accordance with the California Code of Regulations (CCR's) including the California Green Building Standards Code. During the preparation of the project design documents a Waste Management Report Identification of Construction and Demolition Debris (WMRIC&D) Chart was prepared. The WMRIC&D Chart lists the known items comprising the different structures to undergo demolition. Separate WMRIC&D Charts were prepared for each structure to undergo demolition. The WMRIC&D Charts are included as Table "A" in the Special Conditions Section of the specifications.

During the project design, it was attempted to identify and place each type of demolition item on the WMRIC&D – Chart; however, there will likely be unknown below grade items or items which are not visible by observation which will be discovered and required to undergo demolition during the construction period. It is the responsibility of the contractor to review the as-built drawings, as referenced by the improvement plans, and conduct a field review during the bidding period to observe the demolition items on the WMRIC&D – Chart and identify any additional items which may require demolition during project construction.

Diversion requirements as listed in Technical Specification Item 4 require that 100 percent of inert material by weight and a minimum of 65 percent of Construction and Demolition debris (non-inert material) by weight be recycled, reused or salvaged. The weight of the materials on the WMRIC&D – Chart is therefore important and monitoring the weight of the different demolition materials removed from the project site during project construction is very important. The WMRIC&D – Chart prepared during the design period listed the

approximate calculated weight of a few of the demolition material items; however the weight of most of the items, such as the clarifier steel bridges, center wells or raker arms, were not possible to calculate and are not included on the WMRIC&D – Chart. *The contractor will not be required to estimate the weight of the WMRIC&D – Chart items during the bidding phase, however; the contractor will be required to weigh each item load removed from the project site during project construction.* The weight of each demolition material item leaving the project site shall be recorded on the Daily Recycling Log of Construction & Demolition (C & D) Material Chart – Table B.

The Daily Recycling Log of Construction & Demolition (C & D) Chart – Table B is contained in the Special Conditions section of the specifications. The Daily Recycling Log of Construction & Demolition (C & D) Chart – Table B includes eighteen columns. A Daily Recycling Log of Construction & Demolition (C & D) Chart – Table B Chart has been prepared for each project demolition structure. The Daily Recycling Log of Construction & Demolition (C & D) Chart – Table B shall be made current each day; except that copies of the weight slips and vendor receipts will be allowed to be delivered to the Construction Manager the day after the demolition material is delivered to the vendor. Column 16 requires the Construction Manager to initial and date each listed demolition item the day after the item is removed from the project site to verify all columns for a particular item have been satisfactorily completed. The Construction Manager shall require the contractor stop demolition work if the contractor does not maintain the Daily Recycling Log of Construction & Demolition (C & D) Chart – Table B current on a daily basis. The Contractor shall not be compensated for these work stoppages. There will undoubtedly be existing unknown buried materials or other unknown materials which will be discovered during the project demolition. All previously unknown materials shall be included on the Daily Recycling Log of Construction & Demolition (C & D) Chart – Table B.

A Waste Management Summary Report – Table C Chart shall be prepared each Monday for the previous week's demolition work. The Waste Management Summary Report – Table C Chart is contained in the Special Conditions of the specifications. The Waste Management Summary Report – Table C Chart includes thirteen column items. The

Waste Management Summary Report – Table C Chart will transfer weight related column information from the previous week from Table B to Table C. The Table C *accumulative* inert and non-inert diversion percentages will be calculated each week. If diversion percentages are not in conformance with the diversion goals the contractor shall determine on how recycling, reuse or salvage methods will be modified to bring the diversion percentages within the diversion percentage goals. The Construction Manager shall require the contractor stop demolition work if the contractor does not maintain the Waste Management Summary Report current on a weekly basis. The Contractor shall not be compensated for these work stoppages.

Quantity and weight estimates for several of the largest demolition item contributors were completed for several quantifiable items including the pcc concrete and ductile iron piping, valves, fittings and related items. The quantity estimates were completed to determine the rough, approximate weight of these materials and gain insight as to the magnitude of the demolition work. Many of the estimates are relying on as-built plans, which may not be completely accurate. There may have been construction improvements completed over the last 40 years for some of the buried or unobservable items which were not recorded (but will require demolition). The quantity and weight estimates are to be considered rough and accurate within 40 percent of the calculated weight of a particular item designation. The quantity and weight estimates are included as Table D documents in the Special Conditions section of the specifications.

2. ABBREVIATIONS

1. C&D: Construction and Demolition
2. CalMAX: California Materials Exchange
3. CalRecycle: California Department of Resources and Recycling and Recovery
4. CCR: California Code of Regulations
5. CDRG: Construction and Demolition Recycling Guide
6. LEA: Local Enforcement Agency
7. SWDD Report: Solid Waste Diversion and Disposal Report
8. SWIS – Solid Waste Information System
9. WMRIC&D – Waste Management Report Identification of Construction and Demolition Debris.

3. DEFINITIONS

3.1 CONSTRUCTION AND DEMOLITION (C&D) / INERT DEBRIS PROCESSING FACILITIES OPERATING UNDER A SOLIDS WASTE PERMIT

A C&D / Inert Debris Processing Facility operating under a Solids Waste Facility Permit accepts loads of Construction and Demolition (C&D) waste for the purpose of *recovering* re-useable and recyclable inert debris for processing; and *disposing* of the non- recyclable or non-re-useable debris material. These facilities are approved by the Local Enforcement Agency (LEA), as later defined in this technical specification section, and possess a Solid Waste Information System (SWIS) number.

3.2 C & D DEBRIS

Construction and Demolition Debris, or “C & D Debris” is solid waste that is a portion of the waste stream defined as *construction and demolition wastes*, as defined in California Code of Regulations Article 4, Section 17225.15 and means source separated or separated for reuse solid waste and recyclable materials, including commingled and separated materials, that result from construction work, that are not hazardous, as defined in California Code of Regulations (CCR), Title 22, Section 66261.3 et seq., and that contain no more than 1 percent putrescible wastes do not constitute a nuisance, as determined by the LEA.

3.3 CLASS III LANDFILL

A landfill that accepts non-hazardous solid waste such as household, commercial, and industrial solid waste. A Class III landfill is regulated by the LEA and must have a CalRecycle solid waste information system (SWIS) number.

3.4 DECONSTRUCTION

The systematic removal of usage items from a structure.

3.5 DEMOLITION

The complete or partial removal of a structure, building, or site improvement, including associated materials and systems, as part of a construction or renovation project.

3.6 DISPOSAL

Acceptance of solid waste at a legally operating facility for the purpose of landfilling.

3.7 DISPOSED

Solid waste debris to be processed and placed at a landfill site.

3.8 DIVERSION

Activities that result in reducing the amount of solid waste that is disposed at a landfill. This can include source reduction activities, composting, recycling and reuse.

3.9 INERT DEBRIS

Solid waste and recyclable debris that are source separated or separated for reuse and do not contain hazardous waste (as defined in CCR, Title 22, section 66262.3 et. Seq.) or soluble pollutants at concentrations more than applicable water quality requirements. Inert debris may not contain more than 1 percent putrescible wastes by volume and shall not constitute a nuisance, as determined by the LEA. Inert debris shall include non-organic, non-hazardous construction and demolition debris that does not undergo significant physical, chemical, or biological transformation. Acceptable Inert debris include:

3.9.1 Concrete (with or without embedded rebar)

3.9.2 Asphalt Paving

3.9.3 Brick and masonry block

3.9.4 Ceramic and Clay Tile

3.9.5 Glass (non-coated, non-laminated)

3.9.6 Stucco (free of wire mesh or organic contamination)

3.9.7 Sand, gravel and uncontaminated soil.

Items such as wood, drywall, insulation, plastics, metals (excluding embedded rebar in concrete), organic matter, and trash shall not exceed **10% by volume** of the inert material.

3.10 INERT DEBRIS RECYCLING CENTER

Per California Code of Regulations, Article 5.9, Section 17381.1a2, an *inert debris recycling center* can receive only Type “A” inert debris that is source separated or separated for reuse. Type “A” inert debris includes but is not limited to concrete (including fiberglass or steel reinforcing bar embedded in the concrete), fully cured asphalt, glass, fiberglass, asphalt or fiberglass roofing shingles, brick, slag, ceramics, plaster, clay and clay products. Type “A” inert material is waste that does not contain soluble pollutants at concentrations in excess of water quality objectives and has not been treated to reduce pollutants. Type “B” inert debris is solid waste that is specifically determined to be inert by the applicable Regional Water Quality Control Board, such as treated industrial wastes and de-watered bentonite-based drilling mud but excludes Type “A” inert debris. The LED, upon consultation with the State Water Resources Control Board, will determine on a case-by-case basis whether materials not listed in CCR Article 5.9, Section 17380 qualify as Type “A” inert debris. An *inert debris recycling center* can operate without a SWIS number, if approved by the LEA.

3.11 LOCAL ENFORCEMENT AGENCY

The Local Enforcement Agency (LEA) is a state-certified entity under the California Department of Resources and Recycling and Recovery (CalRecycle). The LEA mandate is to enforce federal, state and local laws related to *solid waste management* within its area of jurisdiction. Although the City of Imperial issues demolition permits and enforces construction and demolition debris

recycling, reuse and disposal projects; the LEA performs complementary regulatory functions related to solids waste management within its area of jurisdiction as listed below:

3.11.1 Inspect solid waste landfills and transfer stations for compliance with state solids waste regulations.

3.11.2 Inspect construction and demolition (C&D) debris processing sites for compliance with state waste regulations. The LEA may conduct site inspections or audits of facilities receiving demolition material to verify proper diversion, recycling, or disposal practices.

3.11.3 LEA may respond to complaints or investigate illegal dumping or improper handling of debris.

3.11.4 LEA may inspect waste hauler operations and verify facility permitting

3.12 MIXED DEMOLITION MATERIAL (MDM)

Mixed Demolition Material refers to the heterogeneous combination of debris generated during the demolition of a commercial structure, encompassing both recyclable and non-recyclable components. This material may typically include a blend of concrete, brick, wood, metal, drywall, insulation, glass, plastics, asphalt and other construction-related substances that are not sorted at the point of generation. Mixed Demolition Material must be taken to a **CalRecycle designated Certified Construction and Demolition (C&D) Waste Processing Facility for recycling, reuse or salvage purposes.**

3.13 RECYCLING

The process of collecting, sorting, cleaning, treating, and reconstituting materials that would otherwise become solid waste, and returning them to the economic mainstream in the form of raw material for new, reused, or reconstituted products that meet the quality standards necessary to be used in the marketplace.

3.14 RECYCLING FACILITY

An operation that can legally accept materials for the purpose of processing the materials into an altered form for the manufacture of a new product. Depending on the types of materials accepted and the operating procedures, a recycling facility may or may not be required to have a Solid Waste Facilities permit from CalRecycle or be regulated by the LEA.

3.15 REUSE

Materials that are recovered for use in the same form. This includes materials that are reused on-site or off-site.

3.16 SALVAGE

Materials recovered for recycling or reuse or sale or donation to a third party.

3.17 SOURCE SEPARATION

Construction and demolition material that is sorted and segregated at the site of generation by individual material type for the purpose of reuse or recycling. For example, loads of concrete that are source-separated for delivery to an inert debris recycling facility to be crushed into road base material.

3.18 SOLID WASTE

Solid Waste is waste that CalRecycle has deemed acceptable for disposal at a Class III Landfill.

3.19 SOLID WASTE INFORMATION SYSTEM (SWIS)

The Solid Waste Information System (SWIS) is maintained by CalRecycle (California Department of Resources Recycling and Recovery) and serves as the centralized database for tracking the following:

3.19.1 Permitted solid waste facilities.

3.19.2 Closed or abandoned disposal sites.

3.19.3 Illegal dumping locations.

3.19.4 Inspection and enforcement data

Each site listed in SWIS is assigned a *unique SWIS number*, which is used for regulatory tracking, permitting, and compliance documentation. The SWIS number ensures alignment with state records and regulatory oversight.

4. DIVERSION REQUIREMENTS

One hundred percent (100%) of inert material for this project shall be recycled, reused or salvaged. CALGreen Code Section 5.408.1 (for nonresidential projects) and Section 4.408.1 (for residential projects) mandate that at least 65% of nonhazardous construction and demolition (C&D) debris (non-inert material) be recycled and salvaged for reuse, measured by weight. A total of up to 35% by weight of the total nonhazardous C&D debris (non-inert material) may be disposed of at a Class III landfill. These diversion guidelines apply to this project.

5. SOURCE SEPARATION

Mixed Demolition Material for inert material and non-inert material to be recycled, reused or salvaged shall not be allowed to be removed from the project site. The contractor shall implement on-site Source Separation of all these demolition materials into distinct segregated categories, including but not limited to: concrete, metals, wood, piping, electrical components, pipe fittings, pipe valves, hazardous materials (if applicable) and other distinct items. Each distinct material shall be placed in separate containers or staging areas. Each distinct material shall be hauled separately from the project site to an appropriate recycling, reuse or salvage facility. The contractor shall confirm that each facility will provide documentation of the material accepted for reuse ,recycling or salvage, and provide weight slips for the accepted material. The weight slips shall include the following:

- 5.1 Name and address of the scale facility
- 5.2 Date and time of weighing
- 5.3 Material type
- 5.4 Gross, tare and net weights
- 5.5 weight ticket number
- 5.6 Weight tickets must be legible, original and wet signed by the scale operator.

If the facility does not have the capability of weighing the material or providing the above listed information, then the contractor shall weigh the material at an independent weight scale in accordance with the independent weight scale technical specification prior to delivering the material to the recycling, disposal or salvage facility.

6. DEMOLITION DEBRIS TO BE DISPOSED AT CONSTRUCTION AND DEMOLITION MATERIAL FACILITY WITH A SOLIDS WASTE PERMIT AND SWIS NUMBER

A total of up to 35% by weight of the total nonhazardous C&D debris (non-inert material) may be disposed at a LEA approved C&D material facility with a solids waste permit and SWIS number. The contractor shall confirm the facility will provide documentation of the material accepted for disposal and landfill and provide weight slips for the accepted material. The weight slips shall include the following:

- 6.1 Name and address of the scale facility
- 6.2 Date and time of weighing
- 6.3 Material Descriptions – Description of each type of material being disposed.
- 6.4 Gross, tare and net weights
- 6.5 Weight ticket number
- 6.6 Weight tickets must be legible, original and wet signed by the scale operator.

If the facility does not have the capability of weighing the material or providing the above listed information, then the contractor shall weigh the material at an independent weight scale in accordance with the independent weight scale technical specification prior to delivering the material to the recycling, disposal or salvage facility.

7. CALIFORNIA CERTIFIED PUBLIC SCALE DEMOLITION MATERIAL WEIGHING REQUIREMENTS

7.1 PURPOSE

This clause establishes requirements for the use of independent weight scales to verify quantities of demolition materials, including but not limited to metals, ductile iron pipe, pipe fittings, pipe valves, concrete, asphalt pavement and other recoverable or disposable debris.

7.2 CERTIFIED SCALE REQUIREMENT

Facilities without weight scales which comply with Sections 5 and 6 shall be weighed at a *California Certified Public Scale*.

7.2.1 The State certified commercial weight scale shall be certified under the authority of the *California Department of Food and Agriculture (CDFA), Division of Measurement Standards (DMS)*.

7.2.2 Certification shall be current and verified by the *County Sealer of Weights and Measures* in the jurisdiction where the scale is located.

7.2.3 *Weighing shall occur at a facility listed on the CDFA Public Scales Registry for Imperial County, California.*

7.3 INSPECTION AND CALIBRATION

7.3.1 Scales shall be inspected and calibrated *at least annually*, or more frequently if required by local regulations.

7.3.2 The contractor shall ensure that the scale displays a *valid certification seal or sticker* indicating the most recent inspection date.

7.4 CALIFORNIA WEIGHMASTER CERTIFICATE REQUIREMENTS

7.4.1 The Contractor shall obtain California Weighmaster Certificates for each load of demolition material leaving the project site. The Weighmaster Certificates shall include the following:

7.4.1.1 Name and address of the scale facility

7.4.1.2 Date and time of weighing

7.4.1.3 Material type

7.4.1.4 Gross, tare and net weights

7.4.1.5 Certification identification number and seal reference

7.4.1.6 Weight tickets must be legible, original, and wet signed by the scale operator.

7.5 NON-COMPLIANT SCALES

7.5.1 Use of uncertified or expired scales shall result in rejection of weight documentation and withholding of payment or implementation of fines.

7.5.2 Failure to comply with weighmaster documentation requirements shall result in rejection of weight documentation and withholding of payment or implementation of fines.

8. MODULAR BUILDING

8.1 GENERAL

8.1.1 SUMMARY

The Contractor shall supply and install one modular office trailer, 12 feet wide by 60 foot long. The unit shall include two (2) small offices, two (2) bathrooms, one (1) Main Office/Meeting room and hallways as required. See plan sheet 30 for the modular office building schematic floor plan. The modular unit shall be designed and constructed in accordance with Title 24, California Building Standards Code (CBC), Parts 2-6 and 11, and Title 25 CCR, Division 1, Chapter 3. Installation shall comply with accessibility requirements per CBC Chapter 11B. Exterior ADA approved entrances shall be provided and installed for the modular building. There shall be two (2) ADA approved entrances provided, one for each modular building doorway. The proposed exterior ADA approved entrances shall be designed by a Registered California Civil Engineer or Architect and stamped and signed by the California Registered Civil Engineer or Architect. The proposed exterior ADA entrance drawings shall be forwarded to the Construction Manager as submittal documents for review and approval. Communications infrastructure shall be provided with the modular building including CAT6 Ethernet cabling, duplex data outlets, Wi-Fi access points, and provisions for alarm and security systems. The communication system infrastructure shall be illustrated on the electrical floor plan submittal drawing.

8.1.2 SUBMITTALS

The following submittal documents shall be forwarded the Construction Manager for review within 20 days after the Notice to Proceed is issued:

8.1.2.1 Product data and shop drawings for trailer unit

8.1.2.2 Floor plan layout with electrical, sanitary sewer and domestic water point of connections.

8.1.2.3 Exterior ADA entrance drawings prepared and stamped by a California Licensed Architect or Civil Engineer. Illustrate ramps, landings and handrails as required by ADA requirements.

8.1.2.4 Electrical floor plan illustrating all switches, lighting fixtures, receptacles, load centers layout, etc. Electrical Plan shall be prepared and stamped by a California Licensed Electrical Engineer. Other required electrical items include:

8.1.2.4.1 Lighting fixture schedule with manufacturer, model, wattage, and photometric data.

8.1.2.4.2 Load calculations and panel schedule.

8.1.2.4.3 Low-voltage and HVAC disconnect details.

8.1.2.4.4 Compliance statement with Title 24 and Title 25 CCR.

8.1.2.5 Electrical plans shall incorporate all communication, computer, internet, wiring/circuitry, alarm and security system control panel, sensors, power supply, IP cameras and security conduit and power/data outlet systems into the Electrical Plan.. Electrical plan submittal documents are to be prepared by a California Licensed Electrical Engineer. Modular building manufacturer shall coordinate with the design professionals to ensure outlet placement, conduit routing, and device integration are reflected in the submittal documents. The electrical plan submittal documents shall be wet signed and stamped by the electrical engineer. An outline for minimum communication and alarm systems submittal documents is as follows:

8.1.2.5.1 Electrical floor plan illustrating all communications and alarm system components. Includes but is not limited to data, alarm, WAP and outlet locations.

8.1.2.5.2 Low-voltage wiring diagram including cable types, outlet locations, and device specifications.

8.1.2.5.3 Device and outlet schedule identifying quantity, type, and location of each component.

8.1.2.5.4 Telecom cabinet layout with patch panel, switch, and power provisions.

8.1.2.5.4 Compliance statement referencing Title 24 CBC and Title 25 CCR.

8.1.2.5.5 Designer's professional license number and stamp.

8.1.2.6 Modular Building Material and Composition Components

8.1.2.6.1 Structural frame submittal – listing of structural frame components.

8.1.2.6.2 High-performance polymer composite siding – material sample and color selection.

8.1.2.6.3 Roofing System – Listing of roofing system components.

8.1.2.6.4 Skirting – material sample and color selection. Listing of skirting features.

8.1.2.6.5 Windows: Type, frame, features and interior shades.

8.1.2.6.6 Exterior Doors: Type, hardware & security. Door color selection by owner.

8.1.2.6.7 Interior Doors: Type and hardware. Door color selection by owner.

8.1.2.6.8 Interior Walls: Office, Hallway and Bathroom proposed wall items, owner to select wood panel type & color, bathroom ceramic tile and bathroom wall colors.

8.1.2.6.9 Flooring: LVT commercial grade and color selection.

8.1.2.6.10 Ceiling: Material selection and color.

8.1.2.6.11 Insulation: Type of material and R value for the floor, walls and roof.

8.1.2.6.12 Painting & Finishes: Interior and Exterior coating specified and color selections.

8.1.2.7 Modular Building Tie Down and Installation Submittals

8.1.2.7.1 Modular Building tie-down design prepared and stamped by a California licensed Civil Engineer or Structural Engineer.

8.1.2.7.2 Modular Building leveling and anchoring procedures.

8.1.2.7.3 Exterior ADA entrance drawings prepared and stamped by a California Licensed Architect or Civil Engineer. Illustrate ramps, landings and handrails as required by ADA requirements.

8.1.2.7.4 Skirting – material sample and color selection. Listing of skirting features.

8.1.2.7.5 Modular Building delivery and installation schedule.

8.1.2.8 Modular Building HVAC and Mechanical System Submittals prepared by a California Licensed Mechanical Engineer.

8.1.2.8.1 Title 24 calculations prepared by a California Licensed Mechanical Engineer engaged by the Modular Building Manufacturer.

The Title 24 calculation submittals shall include CF1R, CF2R and CF3R forms.

8.1.2.8.2 Load calculations per ACCA Manual J or ASHRAE Standards.

8.1.2.8.3 HVAC unit specifications including cooling/heating capacity, electrical data, and efficiency ratings. The SEER rating the HVAC unit shall be included.

8.1.2.8.4 Duct sizing including gauge thickness and insulation.

8.1.2.8.5 HVAC layout plan to be prepared by the Modular Building Manufacturer. The HVAC layout plan shall illustrate the Air Conditioning/Heat Pump location, supply and return duct locations, Vents, thermostat control and similar HVAC items.

8.1.2.8.6 Mounting and anchoring details for seismic and wind compliance.

8.1.2.9 Plumbing Fixture Submittal Requirements are contained in Section 8.2.6.

8.1.3 QUALITY ASSURANCE

8.1.3.1 Modular building manufacturer shall be regularly engaged the fabrication of modular buildings.

8.1.3.2 Modular building shall comply with applicable State of California and Local Building Codes.

8.1.3.3 All electrical, plumbing and HVAC systems shall meet NEC, UPC and California Uniform Building Code requirements, latest edition.

8.1.3.4 Manufacturer shall comply with California Code of Regulations Title 25 - 4353, including structural, fire-life safety, and CALGreen Standards.

8.1.3.5 Modular building installer shall be a California Licensed C-47 contractor.

8.2 MODULAR BUILDING MATERIAL AND COMPOSITION

8.2.1 Structural Frame

8.2.1.1 Type: Welded steel frame construction.

8.2.1.2 Material: Structural steel per ASTM-36 or equivalent.

8.2.1.3 Finish: Factory-applied corrosion-resistant primer and topcoat.

8.2.1.4 Seismic Design: Engineered to meet or exceed CBC seismic requirements for Imperial County, including resistance to severed seismic events (Magnitude 7-8).

8.2.2 Exterior Walls

8.2.2.1 Siding: High-performance polymer composite siding.

8.2.2.2 Finish: UV-resistant, factory-applied finish. Color to be selected by the Owner.

8.2.2.3 Insulation: Minimum R-21 with radiant barrier sheathing for high heat reflectivity.

8.2.3 Roof System

8.2.3.1 Type: Low-sloped with standing seam metal panels.

8.2.3.2 Material: Aluminum with high Solar Reflectance Index (SRI).

8.2.3.3 Insulation: Minimum R-38 with radiant barrier.

8.2.3.4 Ventilation: Passive or mechanical attic ventilation.

8.2.4 Skirting

8.2.4.1 Composite Skirting Panels to match exterior walls.

8.2.4.2 Features: Venting and lockable access panels; color-matched to building exterior.

8.2.5 Windows

8.2.5.1 Type: Triple-pane insulated glazing units (IGUs)

8.2.5.2 Frame: Thermally broken aluminum.

8.2.5.3 Features: Low-E coating, lockable hardware, insect screens.

8.2.5.4 Shading: Interior Vinyl roller shades to be provided and installed for each window.

8.2.6 Exterior Doors

8.2.6.1 Type: Hollow metal doors with insulated core. Colors to be selected by Owner.

8.2.6.2 Hardware: Industrial-grade lever handles, door closures, thresholds, and weatherstripping.

8.2.6.3 Security: Lockable with keyed entry. Three (3) sets of keys shall be provided.

8.2.7 Interior Doors

8.2.7.1 Type: Hollow metal doors with steel frames (color to be selected by owner).

8.2.7.2 Hardware: Commercial-grade hinges, lever handles, and door stops.

8.2.8 Interior Walls

8.2.8.1 Offices & Hallways: High-grade wood paneling (color selected by owner).

8.2.8.2 Restrooms: Ceramic tile wainscot with moisture resistant (greenboard) above. Owner to select ceramic tile type and color.

8.2.9 Flooring

8.2.9.1 Material: Commercial-grade Luxury Vinyl Tile (LVT). Color selected by Owner from manufacturer's standard range.

8.2.10 Ceilings

8.2.10.1 Material: Vinyl-faced gypsum ceiling panels or gypsum board.

8.2.10.2 Installation: Heavy-duty T-bar grid system or direct-apply method.

8.2.10.3 Performance: Materials selected for high-temperature resistance.

8.2.11 Insulation

8.2.11.1 Floor: Minimum R-30

8.2.11.2 Walls: Minimum R-21

8.2.11.3 Roof: Minimum R-38

8.2.11.4 Compliance: All insulation to meet or exceed Title 24 energy efficiency standards.

8.2.12 Painting & Finishes

8.2.12.1 Interior Painted Surfaces: Low-VOC, washable, semi-gloss acrylic latex paint (color selected by Owner).

8.2.12.2 Exterior Painted Surfaces: UV-resistant, factory-applied paint system with minimum 10-year warranty (color selected by Owner).

8.2.1 MODULAR BUILDING GENERAL REQUIREMENTS

8.2.1.1 Modular Building Dimensions: 12 foot wide x 60 foot long.

8.2.1.2 Interior Layout:

8.2.1.2.1 Two (2) small private offices

8.2.1.2.2 One (1) master office/meeting room

8.2.1.2.3 Two (2) restrooms

8.2.1.2.4 Hallways, as required

8.2.1.3 Exterior Entrances

8.2.1.3.1 The modular building manufacturer shall supply two (2) ADA approved building entrances.

8.2.2 MODULAR BUILDING DELIVERY AND INSTALLATION INCLUDING STRUCTURAL TIE DOWN AND FOUNDATION INTEGRATION

8.2.2.1 SUMMARY

8.2.2.1.1 This Section includes requirements for delivery, placement, anchoring, leveling, and utility connection of a modular office building located with the City of Imperial Wastewater Treatment Plant facility.

8.2.2.1.2 Work Includes:

8.2.2.1.2.1 Delivery and placement of a 12 foot wide x 60 foot long modular office building.

8.2.2.1.2.2 Placement of the 12 foot wide x 60 foot long modular office building on a 32 foot wide x 70 foot long x 6 inch deep pcc slab with 5 feet of slab extending past the ends of the modular office building and 10 feet of the slab extending past the sides of the modular office building.

8.2.2.1.2.3 Preparation of Submittal Design Documents for the installation of concrete tie-down pads.

8.2.2.1.2.4 Utility connections to the domestic water, sanitary sewer, and electrical services. The extensions of these utilities to the modular building are illustrated on plan sheet 30.

8.2.2.1.2.5 Installation of skirting and ADA-compliant exterior entrances.

8.2.2.2 RELATED DOCUMENTS

8.2.2.2.1 Improvement Plans. Refer to plan sheet 30 for the domestic water, sanitary sewer and electrical services extensions to the modular building.

8.2.2.3 MODULAR BUILDING SUBMITTALS

8.2.2.3.1 Modular Building tie-down design prepared and stamped by a California licensed Civil Engineer or Structural Engineer.

8.2.2.3.2 Modular Building leveling and anchoring procedures.

8.2.2.3.3 ADA compliant exterior entrances.

8.2.2.3.4 Skirting Details and Accessories.

8.2.2.3.5 Delivery and installation schedule.

8.2.2.4 QUALITY ASSURANCE

8.2.2.4.1 Tie Down System shall comply with:

8.2.2.4.1.1 Seismic Zone 7-8 requirements.

8.2.2.4.1.2 Wind load up to 90 miles per hour.

8.2.2.4.2 The exterior entrance and tie-down submittals shall be prepared and stamped by a California licensed Civil or Structural Engineer as appropriate.

8.2.2.5 MODULAR BUILDING

8.2.2.5.1 Dimensions: 12 feet wide x 60 feet long.

8.2.2.5.2 Manufacturer: Multiple manufactures that meet the required specifications are acceptable.

8.2.2.5.3 Manufactured building shall be designed for a permanent installation on a pcc slab.

8.2.2.6 FOUNDATION AND BASE

8.2.2.6.1 PCC Slab: 32 feet wide x 72 foot long x 6 inches deep installed over 12 inches of Class 2 base compacted to 95 percent of maximum density per ASTM D-1557. The pcc slab shall extend 5 feet beyond the length of the modular building and 10 feet beyond the sides of the modular building. The pcc concrete shall contain a minimum of 7 sacks of cement per cubic yard and attain a compressive strength of 5,000 pounds after 28 days curing. 6 x 6 – 10 gauge welded wire fabric is to be placed throughout the pcc concrete slab area 2 ½ inches from the bottom of the pcc slab.

8.2.2.6.2 One foot of class 2 base is to be placed under the 32 feet wide x 72 foot long pcc modular building slab. The class 2 base is to be compacted to 95 percent of maximum density per ASTM D-1557.

8.2.2.6.3 Tie Down pads shall be constructed monolithically with the 6 inch pcc Modular Building slab. The Tie Down pads shall be placed flush with the pcc slab surface, sized per manufacturer's tie-down submittal design.

8.2.3 MODULAR BUILDING HVAC AND MECHANICAL SYSTEMS

8.2.3.1 GENERAL

8.2.3.1.1 SUMMARY

8.2.3.1.1.1 This Section includes requirements for the design, delivery, installation, and commissioning of HVAC and mechanical systems for the Modular Office Building located within the City of Imperial Wastewater Treatment Plant facility.

8.2.3.1.1.2 Work for this Section Includes:

8.2.3.1.1.2.1 Combination air conditioning and heating unit.

8.2.3.1.1.2.2 Ductwork, supply and return vents.

8.2.3.1.1.2.3 Electrical coordination with 120/240 Volt, 1-phase, 125 Amp Load Center.

8.2.3.1.1.2.4 Compliance with California Title 24 Energy Code and California Mechanical Code (CMC).

8.2.3.1.2 RELATED DOCUMENTS

8.2.3.1.2.1 Drawings and Special Conditions apply to this Section.

8.2.3.1.2.2 Refer to Plan Sheet 30 for electrical service entrance and modular building layout.

8.2.3.1.3 SUBMITTALS

8.2.3.1.3.1 Submit the following submittal documents prepared and stamped by a California Licensed Mechanical Engineer for review and approval:

8.2.3.1.3.1.1 Title 24 calculations prepared by a California Licensed Mechanical Engineer engaged by the Modular Building Manufacturer. The Title 24 calculation submittals shall include CF1R, CF2R and CF3R forms.

8.2.3.1.3.1.2 Load calculations per ACCA Manual J or ASHRAE Standards.

8.2.3.1.3.1.3 HVAC unit specifications including cooling/heating capacity, electrical data, and efficiency ratings. The SEER rating the HVAC unit shall be included.

8.2.3.1.3.1.4 Duct sizing including gauge thickness and insulation.

8.2.3.1.3.1.5 HVAC layout plan to be prepared by the Modular Building Manufacturer. The HVAC layout plan shall illustrate the Air Conditioning/Heat Pump location, supply and return duct locations, Vents, thermostat control and similar HVAC items.

8.2.3.1.3.1.6 Mounting and anchoring details for seismic and wind compliance.

8.2.3.1.4 Title 24 Calculations shall be prepared by a California Licensed Mechanical Engineer engaged by the Modular Building Manufacturer for review and approval.

8.2.3.1.4 QUALITY ASSURANCE

8.2.3.1.4.1 All equipment and installation shall comply with:

8.2.3.1.4.1.1 California Mechanical Code (CMC)

8.2.3.1.4.1.2 California Energy Code (Title 24)

8.2.3.1.4.1.3 CalGreen (Part 11 of Title 24)

8.2.3.1.4.1.4 National Electric Code (NEC).

8.2.3.1.4.2 The HVAC Contractor shall possess a State of California C-20 License (Warm-Air, Heating, Ventilating and Air Conditioning License).

8.2.3.2 PRODUCTS

8.2.3.2.1 HVAC Unit

8.2.3.2.1.1 *Type*: Combination air conditioning and heating unit, roof mounted or pad mounted.

8.2.3.2.1.2 *Voltage*: 120/240 Volt, 1 phase.

8.2.3.2.1.3 *Capacity*: Sized to maintain indoor temperatures equal to or greater than 78 degrees Fahrenheit under peak ambient conditions of 120 degrees Fahrenheit.

8.2.3.2.1.4 *Efficiency*: Minimum SEER rating of 21.

8.2.3.2.1.5 *Thermostat*: Programmable, Title 24 compliant, centrally located.

8.2.3.2.2 Ductwork

8.2.3.2.2.1 Galvanized sheet metal.

8.2.3.2.2.1.1 *Gauge*: Minimum 22 – gauge for supply and return ducts.

8.2.3.2.2.1.2 *Insulation*: R-6 minimum, sealed per Title 24 and CMC.

8.2.3.2.2.1.3 *Layout*: Designed to ensure balanced airflow and efficient cooling.

8.2.3.2.3 Ventilation

8.2.3.2.3.1 *Supply Vents*: Sized and located to ensure uniform air distribution.

8.2.3.2.3.2 *Return Vents*: Sized to match system airflow requirements.

8.2.3.2.3.3 *Vent Covers*: Louvered, corrosion resistant finish – white color.

8.2.3.2.4 Accessories

8.2.3.2.4.1 *Condensate Drainage*: With freeze protection and backflow prevention.

8.2.3.2.4.2 *Anchoring System*: Designed to resist 7 to 8 seismic events and wind loads up to 90 miles per hour.

8.2.3.2.4.3 *Disconnect*: Located adjacent to the air conditioning unit, per NEC and CEC requirements.

8.2.3.3 EXECUTION

8.2.3.3.1 Installation

8.2.3.3.1.1 Mount HVAC unit securely to roof or pcc pad per manufacturer's instructions. The pcc pad beneath the HVAC unit shall be a minimum of 1 foot in depth.

8.2.3.3.1.2 HVAC unit is to have a dedicated electrical circuit with appropriate breaker and disconnect switch.

8.2.3.3.1.3 Install ductwork and vents per approved layout submittal plan.

8.2.3.3.1.4 Install condensate drainage system with proper slope and protection.

8.2.3.3.2 Commissioning

8.2.3.3.2.1 Test system under full load conditions.

8.2.3.3.2.2 Verify temperature maintenance at 78 degrees Fahrenheit or lower during test.

8.2.3.3.2.3 Confirm thermostat operation and airflow balance is satisfactory.

8.2.3.3.2.4 Submit final compliance forms and commissioning report.

8.2.4 MODULAR BUILDING ELECTRICAL AND LIGHTING – This section includes electrical lighting, receptacles, and associated controls for the modular office building.

8.2.4.1 Electrical Service Panel and Transformer

8.2.4.1.1 A new transformer and electrical service shall be installed in conformance with the Partial Electrical one line diagram illustrated on the plan sheet 28 and the Electrical Technical Specifications.

8.2.4.2 Codes and Standards – All work shall comply with the following:

8.2.4.2.1 Title 24, California Building Standards Code, Parts 2-6 and 11.

8.2.4.2.2 Title 25, California Code of Regulations, Division 1, Chapter 3.

8.2.4.2.3 California Electrical Code (CEC), Part 3 of Title 24

8.2.4.2.4 National Electrical Code (NEC), NFPA 70

8.2.4.2.5 California Energy Code (Title 24, Part 6)

8.2.4.3 Conduit and Conductors

8.2.4.3.1 EMT conduit shall be used for all electrical runs within the modular building. PVC conduit shall be used for below grade conduit per electrical technical specifications.

8.2.4.3.2 Conductors shall be copper, THHN/THWN-2, 600V rated, minimum #12 AWG.

8.2.4.3.3 Grounding: For the entrance section/load center grounding shall be in accordance with the Partial Electrical One-Line Diagram on plan sheet 28. Any other required grounding inside the modular building shall be in accordance with NEC Article 250, with grounding electrode system.

8.2.4.4 Receptacles

8.2.4.4.1 Receptacles shall be NEMA 5-15R commercial grade duplex receptacles.

8.2.4.4.2 Small Offices shall have 4 duplex receptacles per room (one per wall).

8.2.4.4.3 Master Office/Meeting Room shall have 6 duplex receptacles minimum.

8.2.4.4.4 Hallways shall have 2 duplex receptacles.

8.2.4.4.5 Restrooms shall have 1 GFCI outlet per room near the sink.

8.2.4.4.6 Receptacle mounting shall be 18" AFF typical, 42" AFF for accessible locations per CBC Chapter 11B.

8.2.4.4.7 Controlled receptacles shall be clearly marked per Title 24, Part 6.

8.2.4.5 Lighting Fixtures and Emergency Lighting

8.2.4.5.1 Lighting fixtures shall be LED, minimum efficacy per Title 24, Part 6, DLC-listed or ENERGY STAR certified.

8.2.4.5.2 Three (3) 2 x 4 LED lighting fixture panels shall be installed in each small office.

8.2.4.5.3 Four (4) 2 x 4 LED lighting fixture panels shall be installed in the Master Office/Meeting Room.

8.2.4.5.4 Hallways shall have two (2) linear LED fixtures.

8.2.4.5.5 Restrooms shall have wall-mounted LED vanity lights + occupancy sensors.

8.2.4.5.6 Switching and Controls

8.2.4.5.6.1 Decora-style, 15A, Manual switches shall be placed at all entry points.

8.2.4.5.6.2 Ceiling or wall mounted occupancy sensors shall be placed in the restrooms, small offices and Master Office/Meeting Room (required by Title 24).

8.2.4.5.6.3 Dimming Controls shall be provided for the Master Office/Meeting Room.

8.2.4.5.7 Emergency lighting shall be provided consisting of battery-backed LED exit signs and egress lighting per CBC and CEC.

8.2.4.6 Installation

8.2.4.6.1 All wiring shall be installed in conduit.

8.2.4.6.2 The location of receptacles, outlets, switches, light fixtures, controls and similar items shall be located on the modular building electrical plan forwarded as a submittal document for review and approval by the construction manager and City of Imperial.

8.2.4.6.3 All circuits and devices shall be clearly and permanently labeled.

8.2.4.6.4 All penetrations shall be sealed per fire and energy code requirements.

8.2.4.7 Testing and Inspection

8.2.4.7.1 Continuity and insulation resistance testing shall be completed on all circuits.

8.2.4.7.2 The operation of lighting controls and occupancy sensors shall be verified to be fully functional.

8.2.4.8 Warranty

8.2.4.7.3 The manufactured building supplier shall provide a minimum one-year warranty on all electrical components and workmanship.

8.2.5 MODULAR BUILDING COMMUNICATIONS AND ALARM SYSTEMS

8.2.5.1 Structured Cabling System (SCS)

8.2.5.1.1 Cable Type: CAT6 Ethernet cabling shall be required.

8.2.5.1.2 Conduit and Raceway: Use EMT conduit or plenum-rated raceways for cable routing, per NEC and CBC Part 3 (California Electrical Code).

8.2.5.1.3 Patch Panel & Termination: Include a wall-mounted patch panel in a designated telecom closet or cabinet, with RJ45 terminations.

8.2.5.2 Data Outlet Placement

8.2.5.2.1 Small Offices: Minimum two (2) duplex RJ45 CAT6 data outlets per office – one on each major wall.

8.2.5.2.2 Master Office/Meeting Room: Minimum four (4) duplex RJ45 CAT6 data outlets, including one at the meeting table location and one at the desk area location.

8.2.5.2.3 Outlet Type: Each duplex outlet should support RJ45 Ethernet + power (duplex receptacle with data port).

8.2.5.2.4 Data Outlets: All data outlets shall be connected to a wall-mounted patch panel located in a designated telecom cabinet or closet.

8.2.5.2.5 Conduit and pull strings: Provide conduit and pull strings for future cabling as required.

8.2.5.3 Wireless Access Points (WAPs)

8.2.5.3.1 Ceiling-mounted WAPs shall be installed in the master office and hallway to ensure full coverage.

8.2.5.3.2 PoE (Power over Ethernet) capability via CAT6 cabling shall be provided to support WAP's without separate power wiring.

8.2.5.4 Alarm and Security System Provisions

8.2.5.4.1 Control Panel: A security control panel shall be installed near the main entrance.

8.2.5.4.2 Sensors: Pre-wiring shall be completed for door contacts, motion detectors, and glass break sensors in all office areas.

8.2.5.4.3 Power Supply: A dedicated circuit shall be provided for the alarm system. The alarm system shall be equipped with battery backup provisions.

8.2.5.4.4 Surveillance: Conduit and power/data outlets shall be installed for ceiling mounted IP cameras at the hallway and entrances.

8.2.6 PLUMBING FIXTURES FOR BATHROOM

8.2.6.1 GENERAL

8.2.6.1.1 SUMMARY

This section includes plumbing fixtures for two restrooms in a modular building, including water closets, urinals (where required), lavatories, and associated accessories.

8.2.6.1.2 REFERENCES

- 8.2.6.1.2.1 California Plumbing Code (CPC)
- 8.2.6.1.2.2 Americans with Disabilities Act (ADA) Standards
- 8.2.6.1.2.3 ANSI A117.1 – Accessible and Usable Buildings and Facilities
- 8.2.6.1.2.4 ASME A112 Series – Plumbing Fixture Standards
- 8.2.6.1.2.5 ICC/ANSI 117.1 – Accessibility

8.2.6.1.3 SUBMITTALS

8.2.6.1.3.1 Product Data: Manufacturer’s data for each fixture and accessory.

8.2.6.1.3.2 Shop Drawings: Fixture locations, rough-in dimensions, and mounting heights.

8.2.6.1.3.3 Certificates: ADA compliance documentation.

8.2.6.1.4 QUALITY ASSURANCE

8.2.6.1.4.1 Fixtures shall be listed and labeled by a recognized testing agency.

8.2.6.1.4.2 Installation by California Licensed Plumbing Contractor per the California Plumbing Code.

8.2.6.2 PRODUCTS

8.2.6.2.1 WATER CLOSETS

8.2.6.2.1.1 Type: Floor-mounted, vitreous china, elongated bowl.

8.2.6.2.2 Flush: 1.28 GPF maximum, gravity tank or flushometer valve.

8.2.6.2.3 ADA: The restroom servicing the one small office and the large office/meeting room is to meet CBC 11B-604.

8.2.6.2.4 Accessories: Open-front seat with cover, heavy-duty hinges.

8.2.6.2.2 URINAL (ONLY ONE)

8.2.6.2.2.1 *Location:* A urinal is to be placed in the bathroom servicing the large office/meeting room.

8.2.6.2.2.2 *Type:* Wall-hung, vitreous china.

8.2.6.2.2.3 *Flush:* 0.125 – 0.5 GPF flushometer valve.

8.2.6.2.3 LAVATORIES

8.2.6.2.3.1 *Type*: Wall-mounted or counter-mounted, vitreous china.

8.2.6.2.3.2 *Faucet*: Single-lever or sensor-operated, 0.5 GPM max.

8.2.6.2.3.3 *ADA*: Knee clearance and reach ranges per CBC 11B-606.

8.2.6.2.4 WATER HEATER

8.2.6.2.4.1 *Type*: Electric, point-of-use, 6 gallon capacity.

8.2.6.2.4.2 *Features*: ASME-rated, pressure relief valve, thermostatic mixing valve.

8.2.6.2.5 BATHROOM ACCESSORIES

8.2.6.2.5.1 *Toilet Paper Dispenser*: Surface-mounted, dual roll.

8.2.6.2.5.2 *Paper Towel Dispenser*: Manual, wall mounted.

8.2.6.2.5.3 *Soap Dispenser*: Wall-mounted, push type.

8.2.6.2.5.4 *Mirror*: Tempered glass, ADA-compliant height.

8.2.6.2.5.5 *Grab Bars*: Stainless steel, 1.25" – 1.5" diameter, 36" rear and 42" side.

8.2.6.2.5.6 *Sanitary Napkin Disposal*: Covered, wall mounted

8.2.6.2.5.7 *Waste Receptacle*: Covered, wall or floor mounted.

8.2.6.2.5.8 *Coat Hook*: Installed at 48” AFF.

8.2.6.2.5.9 *Signage*: ADA – compliant tactile signs with Braille and geometric symbols.

8.2.6.3 EXECUTION

8.2.6.3.1 INSTALLATION

8.2.6.3.1.1 Install per manufacturer’s instructions and CPC.

8.2.6.3.1.2 Coordinate rough-in locations with modular building layout plan.

8.2.6.3.1.3 Seal joints watertight and test all connections.

8.2.6.3.2 ADJUSTING AND CLEANING

8.2.6.3.2.1 Adjust fixtures for proper operation.

8.2.6.3.2.2 Clean all surfaces and remove debris.

8.2.7 PLUMBING PIPING FOR BATHROOMS

8.2.7.1 GENERAL

8.2.7.1.1 SUMMARY

This section includes domestic water, sanitary sewer, and vent piping systems for modular restrooms.

8.2.7.1.2 REFERENCES

- 8.2.7.1.2.1 California Plumbing Code (CPC)
- 8.2.7.1.2.2 ASTM Standards for piping materials
- 8.2.7.1.2.3 Title 24, Part 6 – California Energy Code

8.2.7.1.3 SUBMITTALS

- 8.2.7.1.3.1 Product Data: Pipe, fittings, valves, insulation
- 8.2.7.1.3.2 Test Reports: Pressure and leak testing results

8.2.7.2 PRODUCTS

8.2.7.2.1 DOMESTIC WATERING PIPING

- 8.2.7.2.1.1 Above Grade: Type L copper tubing with wrought copper fittings.
- 8.2.7.2.1.2 Below Grade: PEX-A with ASTM F1960 fittings or copper.
- 8.2.7.2.1.3 Joints: Soldered (lead-free) or crimped.
- 8.2.7.2.1.4 Insulation: Closed-cell foam, min R-4.2, per Title 24.

8.2.7.2.2 SANITARY SEWER PIPING

- 8.2.7.2.2.1 Above Grade: ABS-DWV or cast iron (hubless).
- 8.2.7.2.2.2 Below Grade: ABS or PVC Schedule 40
- 8.2.7.2.2.3 Joints: Solvent-welded or no-hub couplings.

8.2.7.2.3 VENT PIPING

- 8.2.7.2.3.1 Material: Same as sanitary piping.
- 8.2.7.2.3.2 Termination: Extend through roof with flashing and bird screen.

8.2.7.2.4 VALVES AND ACCESSORIES

- 8.2.7.2.4.1 Ball Valves: Full-port, bronze body, threaded ends.
- 8.2.7.2.4.2 Backflow Preventers: As required by CPC.
- 8.2.7.2.4.3 Cleanouts: Full-size, accessible, brass or ABS.

8.2.7.3 EXECUTION

8.2.7.3.1 INSTALLATION

- 8.2.7.3.1.1 Install piping true to line and grade.
- 8.2.7.3.1.2 Provide unions, cleanouts, and supports per CPC
- 8.2.7.3.1.3 Coordinate with modular building penetrations.

8.2.7.3.2 TESTING

- 8.2.7.3.2.1 Water Piping: Hydrostatic test at 150 PSI for 2 hours.
- 8.2.7.3.2.2 Drainage: Air test at 5 PSI or water test per CPC.

8.2.7.3.3 IDENTIFICATION

- 8.2.7.3.3.1 Label piping per ANSI A13.1
- 8.2.7.3.3.1 Color code domestic hot/cold and sanitary lines.

8.2.8 PLUMBING PIPING INSULATION FOR BATHROOMS

8.2.8.1 GENERAL

8.2.8.1.1 SUMMARY

This section includes thermal insulation for domestic water piping systems in modular restroom facilities.

8.2.8.1.2 REFERENCES

- 8.2.8.1.2.1 California Energy Code (Title 24, Part 6)
- 8.2.8.1.2.2 ASTM C177, C518 – Thermal Conductivity
- 8.2.8.1.2.3 ASTM C534 – Flexible Elastomeric Cellular Materials
- 8.2.8.1.2.4 ASHRAE 90.1 – Energy Standard for Buildings

8.2.8.1.3 SUBMITTALS

- 8.2.8.1.3.1 Product Data: Manufacturer’s specifications for insulation materials.
- 8.2.8.1.3.2 Installation Instructions: Detailing adhesive, fittings, and vapor barrier applications.

8.2.8.1.4 QUALITY ASSURANCE

8.2.8.1.4.1 Insulation shall be UL-listed and comply with Title 24 minimum R-values.

8.2.8.1.4.2 Installer shall be qualified and experienced in mechanical insulation.

8.2.8.2 PRODUCTS

8.2.8.2.1 INSULATION MATERIALS

8.2.8.2.1.1 Type: Closed-cell flexible elastomeric foam or fiberglass with vapor barrier.

8.2.8.2.1.2 Thickness

8.2.8.2.1.2.1 Domestic Hot Water: Minimum 1” thick, R-4.2 or greater.

8.2.8.2.1.2.2 Cold Water: Minimum 0.5” thick, R-2.1 or greater.

8.2.8.2.1.3 Jacket: All exposed insulation shall have a washable, durable jacket.

8.2.8.2.2 ACCESSORIES

8.2.8.2.2.1 Adhesive: Non-toxic, water-resistant contact adhesive.

8.2.8.2.2.2 Tape: Matching insulation tape for seams and joints.

8.2.8.2.2.3 Vapor Barrier: Polyethylene or aluminum foil facing for humid areas.

8.2.8.3 EXECUTION

8.2.8.3.1 INSTALLATION

8.2.8.3.1.1 Apply insulation to all hot and cold water piping, including fittings and valves.

8.2.8.3.1.2 Maintain continuity of insulation through pipe supports.

8.2.8.3.1.3 Seal all joints and seams to prevent condensation.

8.2.8.3.2 PROTECTION AND IDENTIFICATION

8.2.8.3.2.1 Protect insulation from damage during construction.

8.2.8.3.2.2 Label piping per ANSI A13.1 with directional flow arrows and service identification.

8.2.9 SIGNAGE

8.2.9.1 GENERAL

8.2.9.1.1 SUMMARY

This section includes tactile and visual signage for restroom identification in compliance with ADA and CBC.

8.2.9.1.2 REFERENCES

8.2.9.1.2.1 California Building Code (CBC) Chapter 11B

8.2.9.1.2.2 ADA Standards for Accessible Design

8.2.9.1.2.3 ICC A117.1 – Accessibility

8.2.9.1.2.4 ANSI Z535 – Safety Signage

8.2.9.1.3 SUBMITTALS

8.2.9.1.3.1 Product Data: Signage dimensions, materials, mounting details.

8.2.9.1.3.2 Samples: One tactile sign for approval.

8.2.9.1.4 QUALITY ASSURANCE

8.2.9.1.4.1 Signs shall be fabricated by a licensed sign manufacturer.

8.2.9.1.4.2 All signage shall comply with CBC 11B-703 and ADA 703.

8.2.9.2 PRODUCTS

8.2.9.2.1 RESTROOM SIGNS

8.2.9.1.1 Type: Wall-mounted tactile signs with Braille.

8.2.9.1.2 Symbols:

8.2.9.1.2.1 Men's: Equilateral triangle.

8.2.9.1.2.2 Women's: Circle.

8.2.9.1.2.3 Unisex: Triangle superior imposed on circle.

8.2.9.1.3 Text: Raised sans-serif lettering, 5/8" to 2" high.

8.2.9.2.2 MATERIALS

8.2.9.2.2.1 Substrate: Acrylic or photopolymer, matte finish.

8.2.9.2.2.2 Color: High contrast (e.g., white on blue or black on white).

8.2.9.2.2.3 Mounting: Adhesive or mechanical fasteners.

8.2.9.3 EXECUTION

8.2.9.3.1 INSTALLATION

8.2.9.3.1.1 Mount signs on latch side of door, 60" AFF to centerline.

8.2.9.3.1.2 Ensure signs are not on door leaf.

8.2.9.3.1.3 Coordinate with door hardware and wall finishes.

8.2.9.3.2 FINAL ADJUSTMENTS

8.2.9.3.2.1 Clean signage surfaces.

8.2.9.3.2.2 Verify tactile and Braille legibility.

8.2.10 FACILITY SANITARY SEWERAGE (DRAINAGE AND VENT PIPING) FOR BATHROOMS

8.2.10.1 GENERAL

8.2.10.1.1 SUMMARY

This section includes materials and installation for sanitary drainage and vent piping systems serving modular restroom facilities.

8.2.10.1.2 REFERENCES

- 8.2.10.1.2.1 California Plumbing Code (CPC)
- 8.2.10.1.2.2 ASTM D2665 – PVC DWV Pipe
- 8.2.10.1.2.3 ASTM D3965 – ABS Pipe
- 8.2.10.1.2.4 ASTM A74 – Cast Iron Soil Pipe
- 8.2.10.1.2.5 ASTM C564 – Rubber Gaskets for DWV

8.2.10.1.3 SUBMITTALS

- 8.2.10.1.3.1 Product Data: Pipe, fittings, cleanouts, supports.
- 8.2.10.1.3.2 Test Reports: Air or water test results per CPC

8.2.10.1.4 Quality Assurance

- 8.2.10.1.4.1 All piping shall be listed and labeled by recognized agencies.
- 8.2.10.1.4.2 Installation by licensed plumbing contractor per CPC.

8.2.10.2 PRODUCTS

8.2.10.2.1 SANITARY DRAINAGE PIPING

8.2.10.2.1.1 Above Grade:

- 8.2.10.2.1.1.1 ABS-DWV or cast iron (no-hub).
- 8.2.10.2.1.1.2 Joints: Solvent-welded (ABS) or stainless steel couplings (cast iron).

8.2.10.2.1.2 Below Grade:

- 8.2.10.2.1.3 PVC Schedule 40 or ABS-DWV.
- 8.2.10.2.1.4 Joints: Solvent-welded.

8.2.10.2.2 VENT PIPING

- 8.2.10.2.2.1 Material: Same as sanitary piping.
- 8.2.10.2.2.2 Size: Minimum 1-1/2" diameter, sized per CPC Chapter 9.

8.2.10.2.2.3 Termination: Extend through roof with flashing and screen.

8.2.10.2.3 CLEANOUTS

8.2.10.2.3.1 Type: Full-size, threaded brass or ABS.

8.2.10.2.3.2 Location: At base of vertical stacks, every 100ft in horizontal runs, and at direction changes > 135°.

8.2.10.2.4 SUPPORTS AND HANGERS

8.2.10.2.4.1 Type: Adjustable clevis hangers, straps, and clamps.

8.2.10.2.4.2 Spacing: Per CPC and manufacturer's recommendations.

8.2.10.3 EXECUTION

8.2.10.3.1 INSTALLATION

8.2.10.3.1.1 Install piping true to line and grade.

8.2.10.3.1.2 Provide cleanouts at accessible locations.

8.2.10.3.1.3 Coordinate with modular building penetrations.

8.2.10.3.2 TESTING

8.2.10.3.2.1 Drainage: Air test at 5 PSI or water test per CPC.

8.2.10.3.2.2 Vent: Verify continuity and termination.

8.2.10.3.3 IDENTIFICATION

8.2.10.3.3.1 Label piping per ANSI A13.1.

8.2.10.3.3.2 Color-code sanitary and vent lines.

8.2.11 TOILET COMPARTMENTS FOR BATHROOMS

8.2.11.1 GENERAL

8.2.11.1.1 SUMMARY

This section includes toilet partitions and accessories for modular restrooms facilities.

8.2.11.1.2 REFERENCES

8.2.11.1.2.1 ADA Standards for Accessible Design

8.2.11.1.2.2 California Building Code (CBC) Chapter 11B

8.2.11.1.2.3 ANSI A117.1 – Accessibility

8.2.11.1.2.4 ASTM E84 – Surface Burning Characteristics

8.2.11.1.3 SUBMITTALS

8.2.11.1.3.1 Product Data: Partition materials, hardware, and accessories.

8.2.11.1.3.2 Shop Drawings: Layout, dimensions, and mounting details.

8.2.11.1.4 QUALITY ASSURANCE

8.2.11.1.4.1 Manufacturer shall have a minimum of 5 years of experience.

8.2.11.1.4.2 Installer shall be certified or factory trained.

8.2.11.2 PRODUCTS

8.2.11.2.1 TOILET COMPARTMENTS

8.2.11.2.1.1 Type: Floor-mounted, overhead braced.

8.2.11.2.1.2 Material: Solid phenolic or powder-coated steel.

8.2.11.2.1.3 Color: Neutral tone (e.g., gray, beige).

8.2.11.2.1.4 Hardware: Stainless steel hinges, latches, coat hooks.

8.2.11.2.2 COMPLIANT COMPARTMENT

8.2.11.2.2.1 Width: Minimum 60” clear.

8.2.11.2.2.2 Depth: Minimum 56” (wall-mounted toilet) or 59” (floor-mounted).

8.2.11.2.2.3 Door: Outward swinging with pull hardware.

8.2.11.2.3 ACCESSORIES

8.2.11.2.3.1 Grab Bars: 36” rear and 42” side, 1.25”-1.5” diameter.

8.2.11.2.3.2 Toilet Paper Dispenser: Mounted per CBC 11B-604.7.

8.2.11.3 EXECUTION

8.2.11.3.1 INSTALLATION

8.2.11.3.1.1 Install partitions plumb and level.

8.2.11.3.1.2 Anchor securely to floor and walls.

8.2.11.3.1.3 Coordinate with plumbing fixture locations.

8.2.11.3.2 ADJUSTING AND CLEANING

8.2.11.3.2.1 Adjust doors and hardware for smooth operation.

8.2.11.3.2.2 Clean surfaces and remove protective film.

8.2.12 DOMESTIC WATER DISTRIBUTION FOR BATHROOMS

8.2.12.1 GENERAL

8.2.12.1.1 SUMMARY

This section includes materials, installation, and testing of domestic cold and hot water distribution systems serving modular restroom facilities.

8.2.12.1.2 REFERENCES

8.2.12.1.2.1 California Plumbing Code (CPC)

8.2.12.1.2.2 California Energy Code (Title 24, Part 6)

8.2.12.1.2.3 ASTM B88 – Seamless Copper Water Tube

8.2.12.1.2.4 ASTM F876/F877 – PEX Tubing and Fittings

8.2.12.1.2.5 NSF/ANSI 61 – Drinking Water System Components

8.2.12.1.2.6 ASME B16.18/B16.22 – Copper Fittings

8.2.12.1.3 SUBMITTALS

8.2.12.1.3.1 Product Data: Pipe, fittings, valves, insulation.

8.2.12.1.3.2 Test Reports: Hydrostatic pressure test results.

8.2.12.1.3.3 Manufacturer Certifications: NSF/ANSI 61 Compliance.

8.2.12.1.4 Quality Assurance

8.2.12.1.4.1 All Materials shall be listed and labeled by recognized testing agencies.

8.2.12.1.4.2 Installation by licensed plumbing contractor per CPC.

8.2.12.2 PRODUCTS

8.2.12.2.1 WATER PIPING MATERIALS

8.2.12.2.1.1 Above Grade:

8.2.12.1.1.1 Type L copper tubing with wrought copper fittings.

8.2.12.1.1.2 Joints: Lead-free or press-fit.

8.2.12.2.2 Below Grade:

8.2.12.2.2.1 PEX-A tubing with ASTM F1960 expansion fittings or Type L copper.

8.2.12.2.2.2 Joints: Expansion ring or crimped connections.

8.2.12.2.2 VALVES

8.2.12.2.2.1 Ball Valves: Full-port, bronze body threaded ends, rated for 150 PSI.

8.2.12.2.2.2 Check Valves: Swing type bronze body.

8.2.12.2.2.3 Isolation Valves: At each fixture and branch line.

8.2.12.2.3 ACCESSORIES

8.2.12.2.3.1 Dielectric Unions: At dissimilar metal transitions.

8.2.12.2.3.2 Pipe Sleeves: PVC or steel at wall/floor penetrations.

8.2.12.2.3.3 Escutcheons: Chrome-plated, adjustable.

8.2.12.2.4 PRESSURE REGULATION DEVICES

8.2.12.2.4.1 Pressure Reducing Valve (PRV): If incoming pressure exceeds 80 PSI.

8.2.12.2.4.2 Thermostatic Mixing Valve: For lavatories and water heater outlet.

8.2.12.2.5 IDENTIFICATION

8.2.12.2.5.1 Labels: Color-coded per ANSI A13.1.

8.2.12.2.5.2 Tags: Brass or plastic valve tags with engraved identifiers.

8.2.12.3 EXECUTION

8.2.12.3.1 INSTALLATION

8.2.12.3.1.1 Install piping true to line and grade, avoiding unnecessary bends.

8.2.12.3.1.2 Provide unions and isolation valves at equipment and fixture connections.

8.2.12.3.1.3 Coordinate with modular building penetrations and fixture rough-ins.

8.2.12.3.2 TESTING

8.2.12.3.2.1 Hydrostatic Test: 150 PSI for 2 hours, no leakage.

8.2.12.3.2.2 Disinfection: Flush system with chlorinated water per CPC.

8.2.12.3.3 INSULATION

8.2.12.3.3.1 Apply insulation per section 22 07 19.

8.2.12.3.3.2 Maintain continuity through supports and fittings.

8.2.12.3.4 FINAL ADJUSTMENT

8.2.12.3.4.1 Verify flow rates and temperature settings.

8.2.12.3.4.2 Label valves and piping per identification standards.

8.2.13 SYSTEM COMMISSIONING FOR BATHROOMS

8.2.13.1 GENERAL

8.2.13.1.1 SUMMARY

This section includes procedures for commissioning domestic water, sanitary sewer, vent piping, and plumbing fixtures for modular restroom facilities.

8.2.13.1.2 REFERENCES

8.2.13.1.2.1 California Plumbing Code (CPC)

8.2.13.1.2.2 California Energy Code (Title 24, Part 6)

8.2.13.1.2.3 ASHRAE Guideline 0 – Commissioning Process

8.2.13.1.2.4 ASHRAE Guideline 1.1 – HVAC & R System Commissioning

8.2.13.1.2.5 ASTM D5330 – Standard Guide for Plumbing Commissioning.

8.2.13.1.3 SUBMITTALS

8.2.13.1.3.1 Commissioning Plan: Scope, schedule, responsibilities, and verification procedures.

8.2.13.1.3.2 Test Reports: Pressure, flow, temperature, and leak testing results.

8.2.13.1.3.3 Equipment Start-up Logs: Manufacturer checklists and installer verification.

8.2.13.1.3.4 Final Commissioning Report: Summary of Results, deficiencies, and corrective actions.

8.2.13.1.4 QUALITY ASSURANCE

8.2.13.1.4.1 Commissioning Agent: Independent party or qualified contractor not directly involved in installation.

8.2.13.1.4.2 All testing shall be witnessed by Owner's Representative or designated inspector.

8.2.13.2 PRODUCTS

8.2.13.2.1 TEST EQUIPMENT

8.2.13.2.1.1 Pressure Gauges: Calibrated, 0-200 PSI range.

8.2.13.2.1.2 Flow Meters: Portable, ultrasonic or mechanical type.

8.2.13.2.1.3 Thermostatic: Digital or analog, $\pm 1^{\circ}\text{F}$ accuracy.

8.2.13.2.1.4 Chlorination Equipment: For disinfection of portable water systems.

8.2.13.2.2 DOCUMENTATION TOOLS

8.2.13.2.2.1 Checklists: Fixture verification, valve operation, insulation coverage.

8.2.13.2.2.2 Logs: Temperature and pressure readings, valve, settings.

8.2.13.2.2.3 Tags: Valve and equipment identification per ANSI A13.1.

8.2.13.3 EXECUTION

8.2.13.3.1 PRE-COMMISSINING INSPECTION

- 8.2.13.3.1.1 Verify installation per approved drawings and specifications.
- 8.2.13.3.1.2 Confirm fixtures mounting, valve placement, and insulation coverage.
- 8.2.13.3.1.3 Ensure signage and ADA compliance are complete.

8.2.13.3.2 SYSTEM TESTING

8.2.13.3.2.1 DOMESTIC WATER

- 8.2.13.3.2.1.1 Hydrostatic test at 150 PSI for 2 hours.
- 8.2.13.3.2.1.2 Flow verification at each fixture.
- 8.2.13.3.2.1.3 Temperature check at hot water outlets.

8.2.13.3.3 Sanitary Sewer

- 8.2.13.3.3.1 Air Test at 5 PSI or water test per CPC.
- 8.2.13.3.3.2 Verify vent continuity and roof termination.

8.2.13.3.4 Fixture Operation

- 8.2.13.3.4.1 Confirm flush volumes, faucet flow rates, and sensor function.
- 8.2.13.3.4.2 Check Grab bar placement and accessory installation.

8.2.13.4 DISINFECTION AND FLUSHING

- 8.2.13.4.1 Flush domestic water system with chlorinated solution (50-200 ppm).
- 8.2.13.4.2 retain solution for minimum 24 hours, then flush with potable water.

8.2.13.5 FINAL REPORTING

8.2.13.5.1 Compile commissioning checklist and test results.

8.2.13.5.2 Identify deficiencies and corrective actions taken.

8.2.13.5.3 Submit signed commissioning certificate.

CITY OF IMPERIAL WASTEWATER TREATMENT PLANT DEMOLITION PROJECT

LIST OF ELECTRICAL SPECIFICATIONS

SECTION 02 41 26	SELECTIVE ELECTRICAL DEMOLITION
SECTION 26 05 00	BASIC ELECTRICAL REQUIREMENTS
SECTION 26 05 19	LOW VOLTAGE ELECTRICAL POWER CONDUCTORS & CABLES
SECTION 26 05 26	GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
SECTION 26 05 29	FIRESTOPPING, HANGERS & SUPPORTS FOR ELECTRICAL SYSTEMS
SECTION 26 05 33	RACEWAYS & BOXES FOR ELECTRICAL SYSTEMS
SECTION 26 05 53	IDENTIFICATION FOR ELECTRICAL SYSTEMS
SECTION 26 51 00	INTERIOR LIGHTING



SECTION 02 41 26

SELECTIVE ELECTRICAL DEMOLITION

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:

1. Removal of existing electrical equipment, wiring, and conduit in areas to be remodeled; removal of designated construction; dismantling, cutting and alterations for completion of the Work.
2. Disposal of materials.
3. Storage of removed materials.
4. Identification of utilities.
5. Salvaged items.
6. Protection of items to remain as indicated on Drawings.
7. Relocate existing equipment to accommodate construction.

B. Related Sections:

1. Section - Building Demolition: Demolition of utilities and other underground items related to the demolition of the building, submittals, pre-demolition meetings, sequencing, scheduling, and coordination under the supervision of the general contractor.

1.2 CLOSEOUT SUBMITTALS

- ###### A. Project Record Documents: Record actual locations of capped utilities, conduits and equipment abandoned in place, and any field changes or modifications.

1.3 SCHEDULING

- ###### A. Schedule work to coincide with demolition by the general contractor and other trades.
- ###### B. Cease operations immediately when structure appears to be in danger or suspected hazardous materials are discovered and notify Architect/Engineer. Do not resume operations until directed.

1.4 COORDINATION

- ###### A. Conduct demolition to minimize interference with adjacent and occupied building areas.
- ###### B. Coordinate demolition work with general contractor and owner.
- ###### C. Coordinate and sequence demolition so as not to cause shutdown of operation of surrounding areas.
- ###### D. Shut-down Periods:
1. Arrange timing of shut-down periods of in service panels with general contractor and Owner. Do not shut down any utility without prior written approval.
 2. Keep shut-down period to minimum or use intermittent period as directed by general contractor and Owner.

3. Maintain life-safety systems in full operation in occupied facilities, or provide notice minimum 7 days in advance.

- E. Identify salvage items in cooperation with Owner.

PART 2 EXECUTION

2.1 EXAMINATION

- A. Verify wiring and equipment indicated to be demolished serve only abandoned facilities.
- B. Verify termination points for demolished services.

2.2 PREPARATION

- A. Erect, and maintain temporary safeguards, including barricades, and similar measures, for protection of the public, Owner, Contractor's employees, and existing improvements to remain.
- B. Temporary egress signage and emergency lighting.

2.3 DEMOLITION

- A. Demolition Drawings are based on casual field observation and existing record documents. Report discrepancies to Architect/Engineer before disturbing existing installation.
- B. Coordinate with general contractor to remove abandoned equipment, conduit, and wire at buildings and structures scheduled for demolition. Cut conduit flush with walls and floors scheduled to remain.
- C. Remove conduit, wire, boxes, and fastening devices to avoid any interference with new installation.
- D. Disconnect electrical systems in walls, floors, and ceilings scheduled for removal.
- E. Reconnect equipment being disturbed by renovation work and required for continue service to nearest available panel.
- F. Disconnect or shut off service to areas where electrical work is to be removed. Remove electrical fixtures, equipment, and related switches, outlets, conduit and wiring which are not part of final project.
- G. Install temporary wiring and connections to maintain existing systems in service during construction.
- H. Perform work on energized equipment or circuits with experienced and trained personnel.
- I. Remove, relocate, and extend existing installations to accommodate new construction.

- J. Repair adjacent construction and finishes damaged during demolition and extension work.
- K. Remove exposed abandoned grounding and bonding components, fasteners and supports, and electrical identification components. Cut embedded support elements flush with walls and floors.
- L. Clean and repair existing equipment to remain or to be reinstalled.
- M. Protect and retain power to existing active equipment remaining.
- N. Cap abandoned empty conduit at both ends.

2.4 EXISTING PANELBOARDS

- A. Ring out circuits in existing panel affected by the Work. Where additional circuits are needed, reuse circuits available for reuse. Install new breakers.
- B. Tag unused circuits as spare.
- C. Where existing circuits are indicated to be reused, use sensing measuring devices to verify circuits feeding Project area or are not in use.
- D. Remove existing wire no longer in use from panel to equipment.
- E. Provide new updated directories where more than three circuits have been modified or rewired.

2.5 SALVAGE ITEMS

- A. Remove and protect items indicated on Drawings to be salvaged and turn over to Owner.
- B. Items of salvageable value may be removed as work progresses. Transport salvaged items from site as they are removed.

2.6 REUSABLE ELECTRICAL EQUIPMENT

- A. Carefully remove equipment, materials, or fixtures which are to be reused.
- B. Disconnect, remove, or relocate existing electrical material and equipment interfering with new installation.

2.7 CLEANING

- A. Remove demolished materials as work progresses. Legally dispose.
- B. Keep workplace neat.

END OF SECTION

SECTION 26 05 00
BASIC ELECTRICAL REQUIREMENTS

PART 1 GENERAL

1.01 SCOPE OF WORK

- A. Basic Electrical Requirements specifically applicable to Division 26 Sections.
- B. All labor, materials, equipment and services necessary to furnish and install complete electrical systems and related items of work as indicated to Drawings or specified herein.
- C. The work in general shall consist of, but is not limited to the following:
 - 1. Coordination with the general contractor and utility companies to perform selective electrical demolition work in conjunction with the overall demolition work as indicated on the drawings.
 - 2. Outdoor underground electrical feeder, underground trenching and conduit, and accessories as indicated.
 - 3. Modifications to existing distribution panel, conduit, wiring, etc., for all new electrical distribution as indicated.
 - 4. Interior lighting fixtures with lamps and lighting accessories as indicated
- D. Drawings are diagrammatic. Refer to Mechanical and Architectural Drawings and specifications for exact locations for equipment furnished by others.

1.02 WORK SEQUENCE

- A. Install work as scheduled to accommodate Owner's occupancy requirements. During the construction period coordinate electrical schedule and operations with other trades, Owner and/or Engineer.

1.03 REFERENCES AND REGULATORY REQUIREMENTS

- A. Conform to applicable International Building Code.
- B. Workmanship and material of electrical work shall comply with or exceed applicable provisions of the following (most recent additions including addenda and errata):
 - 1. All Local Codes and Ordinances.
 - 2. California/National Electrical Code (NEC) (NFPA 70).
 - 3. California/International Building Code (IBC).
 - 4. California/International Existing Building Code (IEBC).
 - 5. California/International Fire Code (IFC).
 - 6. NFPA 72, Fire Alarm Code.
 - 7. National Bureau of Fire Underwriters (NBFU).
 - 8. American National Standards Institute (ANSI).
 - 9. American Society for Testing and Materials (ASTM).
 - 10. National Electrical Manufacturers Association (NEMA).
 - 11. Standards and requirements for serving utilities.
 - 12. Standards of Installation (NECA).
 - 13. Safety and Health Standards (OSHA).
 - 14. Americans with Disabilities Act (ADA).
 - 15. Factory Mutual (FM).

1.04 SUBMITTALS

- A. Submit shop drawings and product data grouped to include complete submittals of related systems, products, and accessories in a single submittal. Partial submittals will not be reviewed.
- B. Mark dimensions and values in units to match those specified.

1.05 PROJECT/SITE CONDITIONS

- A. Install Work in locations shown on Drawings, unless prevented by Project conditions.
- B. Prepare drawings showing proposed rearrangement of Work to meet Project conditions, including changes to Work specified in other Sections. Obtain permission of Owner and/or Architect before proceeding.
- C. **SITE WORK:** Contractor shall employ an independent locating service to locate and verify all existing services, whether specifically shown on the drawings or not. Location of services shall be recorded on record documents. No trenching or excavation shall commence until locations are verified. The Owner shall be notified in writing prior to any trenching requiring a utility shutdown. Any services interrupted by trenching or excavating shall be repaired by the contractor with no additional cost to the Owner. Existing services not specifically indicated on the drawings to be relocated, which interfere with building components, shall be brought to the Architect's immediate attention. Prepare drawings showing proposed re-routing, area(s) affected, and length of interruption(s).

1.06 SEQUENCING AND SCHEDULING

- A. Construct Work in sequence under provisions of the General Specifications.

END OF SECTION 26 05 00

SECTION 26 05 19
LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes building wire and cable; and wiring connectors and connections.
- B. Related Sections:
 - 1. Section 26 05 53 - Identification for Electrical Systems: Product requirements for wire identification.

1.02 REFERENCES

- A. International Electrical Testing Association:
 - 1. NETA ATS - Acceptance Testing Specifications for Electrical Power Distribution Equipment and Systems.
- B. National Fire Protection Association:
 - 1. NFPA 70 - National Electrical Code.
 - 2. NFPA 262 - Standard Method of Test for Flame Travel and Smoke of Wires and Cables for Use in Air-Handling Spaces.

1.03 SYSTEM DESCRIPTION

- A. Product Requirements: Provide products as follows:
 - 1. Solid conductor for feeders and branch circuits 10 AWG and smaller.
 - 2. Stranded conductors for control circuits.
 - 3. Conductor not smaller than 12 AWG for power and lighting circuits.
 - 4. Conductor not smaller than 16 AWG for control circuits.
 - 5. 10 AWG conductors for 20 ampere, 120 volt branch circuits longer than 75 feet.
- B. Wiring Methods: Provide the following wiring methods:
 - 1. Concealed Dry Interior Locations: Use only building wire, Type THHN/THWN 90 degree C rated insulation, in raceway.
 - 2. Exposed Dry Interior Locations: Use only building wire, Type THHN/THWN 90 degree C rated insulation, in raceway.
 - 3. Above Accessible Ceilings: Use only building wire, Type THHN/THWN 90 degree C rated insulation, in raceway.
 - 4. Wet or Damp Interior Locations: Use only building wire, Type THHN/THWN 90 degree C rated insulation, in raceway.
 - 5. Exterior Locations: Use only building wire, Type THHN/THWN 90 degree C rated insulation, in raceway.
 - 6. Underground Locations: Use only building wire, Type THHN/THWN 90 degree C rated insulation, in raceway.
 - 7. Use wiring and methods indicated on drawings.

1.04 DESIGN REQUIREMENTS

- A. Conductor sizes are based on copper.

1.05 SUBMITTALS

- A. Product Data: Submit for building wire and each cable assembly type.

1.06 CLOSEOUT SUBMITTALS

- A. Project Record Documents: Record actual locations of components and circuits.

1.07 QUALITY ASSURANCE

- A. Provide wiring materials located in plenums with peak optical density not greater than 0.5, average optical density not greater than 0.15, and flame spread not greater than 5 feet (1.5 m) when tested in accordance with NFPA 262.

1.08 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years documented experience.

1.09 FIELD MEASUREMENTS

- A. Verify field measurements are as indicated on Drawings.

1.10 COORDINATION

- A. Where wire and cable destination is indicated and routing is not shown, determine routing and lengths required.
- B. Wire and cable routing indicated is approximate unless dimensioned.

PART 2 - PRODUCTS

2.01 BUILDING WIRE

- A. Manufacturers:
 - 1. Okonite.
 - 2. General Cable Co.
 - 3. Southwire.
 - 4. American.
 - 5. Substitutions: Under provisions of General Specifications.
- B. Product Description: Single conductor insulated wire.
- C. Conductor: Copper.
- D. Insulation: 600 volt rating; material rated 90 degrees C.

2.02 WIRING CONNECTORS

- A. Split Bolt Connectors:
 - 1. Kearney.
 - 2. Teledyne Penn-Union.
- B. Solderless Pressure Connectors:

1. Cadweld.
2. Burndy.
- C. Compression Connectors:
 1. Kearney.
 2. Teledyne- Penn-Union.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify interior of building has been protected from weather.
- B. Verify mechanical work likely to damage wire and cable has been completed.
- C. Verify raceway installation is complete and supported.

3.02 PREPARATION

- A. Completely and thoroughly swab raceway before installing wire.

3.03 INSTALLATION

- A. Route wire and cable to meet Project conditions.
- B. Neatly train and lace wiring inside boxes, equipment, and panelboards.
- C. Identify and color code wire and cable under provisions of Section 26 05 53. Identify each conductor with its circuit number or other designation indicated.
- D. Special Techniques--Building Wire in Raceway:
 1. Pull conductors into raceway at same time.
 2. Install building wire 4 AWG and larger with pulling equipment.
- E. Special Techniques - Cable:
 1. Protect exposed cable from damage.
 2. Support cables above accessible ceiling, using spring metal clips or cable ties to support cables from structure. Do not rest cable on ceiling panels.
 3. Use suitable cable fittings and connectors.
- F. Special Techniques - Wiring Connections:
 1. Clean conductor surfaces before installing lugs and connectors.
 2. Make splices, taps, and terminations to carry full ampacity of conductors with no perceptible temperature rise.
 3. Tape uninsulated conductors and connectors with electrical tape to 150 percent of insulation rating of conductor.
 4. Install split bolt connectors for copper conductor splices and taps, 6 AWG and larger.
 5. Install solderless pressure connectors with insulating covers for copper conductor splices and taps, 8 AWG and smaller.
- G. Install solid conductor for feeders and branch circuits 10 AWG and smaller.

3.04 WIRE COLOR

- A. General:
 1. For wire sizes 10 AWG and smaller, install wire colors in accordance with the following:
 - a. Black and red for single phase circuits at 120/240 volts.
 - b. Black, red, and blue for circuits at 120/240 volts single or three phase.
 - c. Match existing.
 2. For wire sizes 8 AWG and larger, identify wire with colored tape at terminals, splices and boxes. Colors are as follows:
 - a. Black and red for single phase circuits at 120/240 volts.
 - b. Black, red, and blue for circuits at 120/240 volts single or three phase.

- c. Match existing.
- B. Neutral Conductors: White. When two or more neutrals are located in one conduit, individually identify each with proper circuit number.
- C. Branch Circuit Conductors: Install three or four wire home runs with each phase uniquely color coded.
- D. Feeder Circuit Conductors: Uniquely color code each phase.
- E. Ground Conductors:
 - 1. For 6 AWG and smaller: Green.
 - 2. For 4 AWG and larger: Identify with green tape at both ends and visible points including junction boxes.

3.05 FIELD QUALITY CONTROL

- A. Inspect and test in accordance with NETA ATS, except Section 4.
- B. Perform inspections and tests listed in NETA ATS, Section 7.3.1.

END OF SECTION 26 05 19

SECTION 26 05 26
GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Rod electrodes.
 - 2. Wire.
 - 3. Mechanical connectors.
 - 4. Exothermic connections.

1.02 REFERENCES

- A. Institute of Electrical and Electronics Engineers:
 - 1. IEEE 142 - Recommended Practice for Grounding of Industrial and Commercial Power Systems.
 - 2. IEEE 1100 - Recommended Practice for Powering and Grounding Electronic Equipment.
- B. International Electrical Testing Association:
 - 1. NETA ATS - Acceptance Testing Specifications for Electrical Power Distribution Equipment and Systems.
- C. National Fire Protection Association:
 - 1. NFPA 70 - National Electrical Code.

1.03 SYSTEM DESCRIPTION

- A. Grounding systems use the following elements as grounding electrodes:
 - 1. Metal underground water pipe.
 - 2. Metal building frame.
 - 3. Concrete-encased electrode.
 - 4. Rod electrode.

1.04 PERFORMANCE REQUIREMENTS

- A. Grounding System Resistance: 25 ohms maximum.

1.05 SUBMITTALS

- A. Product Data: Submit data on grounding electrodes and connections.
- B. Test Reports: Indicate overall resistance to ground and resistance of each electrode.

1.06 CLOSEOUT SUBMITTALS

- A. Project Record Documents: Record actual locations of components and grounding electrodes.

1.07 QUALITY ASSURANCE

- A. Provide grounding materials conforming to requirements of NEC, IEEE 142, and UL labeled.

1.08 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing Products specified in this section with minimum three years documented experience.

1.09 DELIVERY, STORAGE, AND HANDLING

- A. Accept materials on site in original factory packaging, labeled with manufacturer's identification.
- B. Protect from weather and construction traffic, dirt, water, chemical, and mechanical damage, by storing in original packaging.
- C. Do not deliver items to project before time of installation. Limit shipment of bulk and multiple-use materials to quantities needed for immediate installation.

PART 2 - PRODUCTS

2.01 ROD ELECTRODES

- A. Manufacturers:
 - 1. Apache Grounding/Erico Inc.
 - 2. Copperweld, Inc.
 - 3. Erico, Inc.
 - 4. O-Z Gedney Co.
- B. Product Description:
 - 1. Material: Copper.
 - 2. Diameter: 3/4 inch.
- C. Length: 10 feet.

2.02 WIRE

- A. Material: Stranded copper.
- B. Foundation Electrodes: 4 AWG.
- C. Equipment Grounding Conductor: Copper conductor insulated.
- D. Bonding Conductor: Copper conductor bare or insulated.

2.03 MECHANICAL CONNECTORS

- A. Manufacturers:
 - 1. Apache Grounding/Erico Inc.
 - 2. Copperweld, Inc.
 - 3. ILSCO Corporation.
 - 4. O-Z Gedney Co.
 - 5. Thomas & Betts, Electrical.
- B. Description: Bronze connectors, suitable for grounding and bonding applications, in configurations required for particular installation.

2.04 EXOTHERMIC CONNECTIONS

- A. Manufacturers:
 - 1. Cadweld.
 - 2. Copperweld, Inc.
 - 3. Thermoweld.
- B. Product Description: Exothermic materials, accessories, and tools for preparing and making permanent field connections between grounding system components.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Remove paint, rust, mill oils, and surface contaminants at connection points.

3.02 INSTALLATION

- A. Install in accordance with IEEE and manufacturer instructions.
- B. Install rod electrodes at locations as indicated on Drawings. Install additional rod electrodes to achieve specified resistance to ground.
- C. Install grounding and bonding conductors concealed from view.
- D. Equipment Grounding Conductor: Install separate, insulated conductor within each feeder and branch circuit raceway. Terminate each end on suitable lug, bus, or bushing.
- E. Install 4 AWG bare copper wire in foundation footing as indicated on Drawings or install grounding electrode conductor and connect to reinforcing steel in foundation footing as indicated on Drawings.
- F. Bond together metal siding not attached to grounded structure; bond to ground.
- G. Equipment Grounding Conductor: Install separate, insulated conductor within each feeder and branch circuit raceway. Terminate each end on suitable lug, bus, or bushing.
- H. Permanently ground entire light and power system in accordance with NEC, including service equipment, distribution panels, lighting panelboards, switch and starter enclosures, motor frames, grounding type receptacles, and other exposed non-current carrying metal parts of electrical equipment.
- I. Accomplish grounding of electrical system by using insulated grounding conductor installed with feeders and branch circuit conductors in conduits. Size grounding conductors in accordance with NEC. Install from grounding bus of serving panel to ground bus of served panel, grounding screw of receptacles, lighting fixture housing, light switch outlet boxes or metal enclosures of service equipment. Ground conduits by means of grounding bushings on terminations at panelboards with installed number 12 conductor to grounding bus.
- J. Grounding electrical system using continuous metal raceway system enclosing circuit conductors in accordance with NEC.
- K. Permanently attach equipment and grounding conductors prior to energizing equipment.

3.03 FIELD QUALITY CONTROL

- A. Inspect and test in accordance with NETA ATS, except Section 4.
- B. Grounding and Bonding: Perform inspections and tests listed in NETA ATS, Section 7.13.
- C. Perform ground resistance testing in accordance with IEEE 142.
- D. Perform continuity testing in accordance with IEEE 142.
- E. When improper grounding is found on receptacles, check receptacles in entire project and correct. Perform retest.

END OF SECTION 26 05 26

SECTION 26 05 29
FIRESTOPPING, HANGERS, AND SUPPORTS FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Conduit supports.
 - 2. Formed steel channel.
 - 3. Spring steel clips.
 - 4. Sleeves.
 - 5. Mechanical sleeve seals.
 - 6. Firestopping relating to electrical work.
 - 7. Firestopping accessories.
 - 8. Equipment bases and supports.

1.02 REFERENCES

- A. ASTM International:
 - 1. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
 - 2. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials.
 - 3. ASTM E814 - Standard Test Method for Fire Tests of Through-Penetration Fire Stops.
 - 4. ASTM E1966 - Standard Test Method for Fire-Resistive Joint Systems.
- B. FM Global:
 - 1. FM - Approval Guide, A Guide to Equipment, Materials & Services Approved By Factory Mutual Research For Property Conservation.
- C. National Fire Protection Association:
 - 1. NFPA 70 - National Electrical Code.
- D. Underwriters Laboratories Inc.:
 - 1. UL 263 - Fire Tests of Building Construction and Materials.
 - 2. UL 723 - Tests for Surface Burning Characteristics of Building Materials.
 - 3. UL 1479 - Fire Tests of Through-Penetration Firestops.
 - 4. UL 2079 - Tests for Fire Resistance of Building Joint Systems.
 - 5. UL - Fire Resistance Directory.

1.03 DEFINITIONS

- A. Firestopping (Through-Penetration Protection System): Sealing or stuffing material or assembly placed in spaces between and penetrations through building materials to arrest movement of fire, smoke, heat, and hot gases through fire rated construction.

1.04 SYSTEM DESCRIPTION

- A. Firestopping Materials: ASTM E814 and UL 1479 to achieve fire ratings as noted on Drawings for adjacent construction.

1.05 PERFORMANCE REQUIREMENTS

- A. Firestopping: Conform to applicable code for fire resistance ratings and surface burning characteristics.

1.06 SUBMITTALS

- A. Product Data:
 - 1. Hangers and Supports: Submit manufacturers catalog data including load capacity.
 - 2. Firestopping: Submit data on product characteristics, performance and limitation criteria.
- B. Firestopping Schedule: Submit schedule of opening locations and sizes, penetrating items, and required listed design numbers to seal openings to maintain fire resistance rating of adjacent assembly.
- C. Design Data: Indicate load carrying capacity of hangers and supports.
- D. Manufacturer's Installation Instructions:
 - 1. Hangers and Supports: Submit special procedures and assembly of components.
 - 2. Firestopping: Submit preparation and installation instructions.
- E. Manufacturer's Certificate: Certify products meet or exceed specified requirements.

1.07 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing Products specified in this section with minimum three years documented experience.
- B. Installer: Company specializing in performing work of this section with minimum three years documented experience.

1.08 DELIVERY, STORAGE, AND HANDLING

- A. Accept materials on site in original factory packaging, labeled with manufacturer's identification.
- B. Protect from weather and construction traffic, dirt, water, chemical, and mechanical damage, by storing in original packaging.

1.09 ENVIRONMENTAL REQUIREMENTS

- A. Do not apply firestopping materials when temperature of substrate material and ambient air is below 60 degrees F. Maintain this minimum temperature before, during, and for minimum 3 days after installation of firestopping materials.

PART 2 - PRODUCTS

2.01 CONDUIT SUPPORTS

- A. Manufacturers:
 - 1. Allied Tube & Conduit Corp.
 - 2. Electroline Manufacturing Company.
 - 3. O-Z Gedney Co.
 - 4. Substitutions: Under provisions of General Specifications.
- B. Hanger Rods: Threaded high tensile strength galvanized carbon steel with free running threads.
- C. Beam Clamps: Malleable Iron, with tapered hole in base and back to accept either bolt or hanger rod. Set screw: hardened steel.

- D. Conduit clamps for trapeze hangers: Galvanized steel, notched to fit trapeze with single bolt to tighten.
- E. Conduit clamps - general purpose: One hole malleable iron for surface mounted conduits.
- F. Cable Ties: High strength nylon temperature rated to 185 degrees F. Self locking.

2.02 FORMED STEEL CHANNEL

- A. Manufacturers:
 1. Unistrut Corp.
 2. Allied Tube & Conduit Corp.
 3. B-Line Systems.
 4. Midland Ross Corporation, Electrical Products Division.
 5. Substitutions: Under provisions of General Specifications.
- B. Product Description: Galvanized 12 gage thick steel. With holes 1-1/2 inches on center.

2.03 SPRING STEEL CLIPS

- A. Manufacturers:
 1. O-Z/Gedney.
 2. Spring City Electrical Mfg..
 3. Erico Products.
 4. Substitutions: Under provisions of General Specifications
- B. Product Description: Mounting hole and screw closure.

2.04 FIRESTOPPING

- A. Manufacturers:
 1. Dow Corning Corp..
 2. Fire Trak Corp.
 3. Hilti Corp.
 4. International Protective Coating Corp.
 5. 3M fire Protection Products.
 6. The RectorSeal Corporation Bio Fireshield.
 7. Substitutions: Under provisions of General Specifications
- B. Product Description: Different types of products by multiple manufacturers are acceptable as required to meet specified system description and performance requirements; provide only one type for each similar application.
 1. Silicone Firestopping Elastomeric Firestopping: Single or multiple component silicone elastomeric compound and compatible silicone sealant.
 2. Foam Firestopping Compounds: Single or multiple component foam compound.
 3. Formulated Firestopping Compound of Incombustible Fibers: Formulated compound mixed with incombustible non-asbestos fibers.
 4. Fiber Stuffing and Sealant Firestopping: Composite of mineral fiber stuffing insulation with silicone elastomer for smoke stopping.
 5. Mechanical Firestopping Device with Fillers: Mechanical device with incombustible fillers and silicone elastomer, covered with sheet stainless steel jacket, joined with collars, penetration sealed with flanged stops.
 6. Intumescent Firestopping: Intumescent putty compound which expands on exposure to surface heat gain.
 7. Firestop Pillows: Formed mineral fiber pillows.

2.05 FIRESTOPPING ACCESSORIES

- A. Primer: Type recommended by firestopping manufacturer for specific substrate surfaces and suitable for required fire ratings.
- B. Installation Accessories: Provide clips, collars, fasteners, temporary stops or dams, and other devices required to position and retain materials in place.
- C. General:
 - 1. Furnish UL listed products.
 - 2. Select products with rating not less than rating of wall or floor being penetrated.
- D. Non-Rated Surfaces:
 - 1. Stamped steel, chrome plated, hinged, split ring escutcheons or floor plates or ceiling plates for covering openings in occupied areas where conduit is exposed.
 - 2. For exterior wall openings below grade, furnish modular mechanical type seal consisting of interlocking synthetic rubber links shaped to continuously fill annular space between conduit and cored opening or water-stop type wall sleeve.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify openings are ready to receive firestopping.

3.02 PREPARATION

- A. Clean substrate surfaces of dirt, dust, grease, oil, loose material, or other matter affecting bond of firestopping material.
- B. Remove incompatible materials affecting bond.
- C. Install backing or damming materials to arrest liquid material leakage.
- D. Obtain permission from Architect/Engineer before using powder-actuated anchors.
- E. Obtain permission from Architect/Engineer before drilling or cutting structural members.

3.03 INSTALLATION - HANGERS AND SUPPORTS

- A. Anchors and Fasteners:
 - 1. Concrete Structural Elements: Provide precast inserts, expansion anchors, powder actuated anchors and preset inserts.
 - 2. Steel Structural Elements: Provide beam clamps, spring steel clips, steel ramset fasteners, and welded fasteners.
 - 3. Concrete Surfaces: Provide self-drilling anchors and expansion anchors.
 - 4. Hollow Masonry, Plaster, and Gypsum Board Partitions: Provide toggle bolts and hollow wall fasteners.
 - 5. Solid Masonry Walls: Provide expansion anchors and preset inserts.
 - 6. Sheet Metal: Provide sheet metal screws.
 - 7. Wood Elements: Provide wood screws.
- B. Inserts:
 - 1. Install inserts for placement in concrete forms.
 - 2. Install inserts for suspending hangers from reinforced concrete slabs and sides of reinforced concrete beams.
 - 3. Provide hooked rod to concrete reinforcement section for inserts carrying pipe over 4 inches.
 - 4. Where concrete slabs form finished ceiling, locate inserts flush with slab surface.
 - 5. Where inserts are omitted, drill through concrete slab from below and provide through-bolt with recessed square steel plate and nut above slab.

- C. Install conduit and raceway support and spacing in accordance with NEC.
- D. Do not fasten supports to pipes, ducts, mechanical equipment, or conduit.
- E. Install multiple conduit runs on common hangers.
- F. Supports:
 - 1. Fabricate supports from structural steel or formed steel channel. Install hexagon head bolts to present neat appearance with adequate strength and rigidity. Install spring lock washers under nuts.
 - 2. Install surface mounted cabinets and panelboards with minimum of four anchors.
 - 3. In wet and damp locations install steel channel supports to stand cabinets and panelboards 1 inch off wall.

3.04 INSTALLATION – FIRESTOPPING

- A. Install material at fire rated construction perimeters and openings containing penetrating sleeves, piping, ductwork, conduit and other items, requiring firestopping.
- B. Apply primer where recommended by manufacturer for type of firestopping material and substrate involved, and as required for compliance with required fire ratings.
- C. Apply firestopping material in sufficient thickness to achieve required fire and smoke rating, to uniform density and texture.
- D. Fire Rated Surface:
 - 1. Seal opening at floor, wall, partition, ceiling, and roof as follows:
 - a. Install sleeve through opening and extending beyond minimum of 1 inch on both sides of building element.
 - b. Size sleeve allowing minimum of 1 inch void between sleeve and building element.
 - c. Pack void with backing material.
 - d. Seal ends of sleeve with UL listed fire resistive silicone compound to meet fire rating of structure penetrated.
 - 2. Where cable tray, conduit, and wireway penetrates fire rated surface, install firestopping product in accordance with manufacturer's instructions.
- E. Non-Rated Surfaces:
 - 1. Seal opening through non-fire rated wall, partition, floor, ceiling, and roof opening as follows:
 - a. Install sleeve through opening and extending beyond minimum of 1 inch on both sides of building element.
 - b. Size sleeve allowing minimum of 1 inch void between sleeve and building element.
 - c. Install type of firestopping material recommended by manufacturer.
 - 2. Install escutcheons, floor plates or ceiling plates where conduit, penetrates non-fire rated surfaces in occupied spaces. Occupied spaces include rooms with finished ceilings and where penetration occurs below finished ceiling.
 - 3. Exterior wall openings below grade: Assemble rubber links of mechanical seal to size of conduit and tighten in place, in accordance with manufacturer's instructions.

3.05 FIELD QUALITY CONTROL

- A. Inspect installed firestopping for compliance with specifications and submitted schedule.

3.06 CLEANING AND PROTECTION OF FINISHED WORK

- A. Clean adjacent surfaces of firestopping materials.
- B. Protect adjacent surfaces from damage by material installation.

END OF SECTION 26 05 29

SECTION 26 05 33
RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes conduit and tubing, outlet boxes, and junction boxes.

1.02 REFERENCES

- A. American National Standards Institute:
 - 1. ANSI C80.1 - Rigid Steel Conduit, Zinc Coated.
 - 2. ANSI C80.3 - Specification for Electrical Metallic Tubing, Zinc Coated.
- B. National Electrical Manufacturers Association:
 - 1. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum).
 - 2. NEMA FB 1 - Fittings, Cast Metal Boxes, and Conduit Bodies for Conduit and Cable Assemblies.
 - 3. NEMA OS 1 - Sheet Steel Outlet Boxes, Device Boxes, Covers, and Box Supports.
 - 4. NEMA OS 2 - Nonmetallic Outlet Boxes, Device Boxes, Covers, and Box Supports.
 - 5. NEMA RN 1 - Polyvinyl Chloride (PVC) Externally Coated Galvanized Rigid Steel Conduit and Intermediate Metal Conduit.
 - 6. NEMA TC 2 - Electrical Polyvinyl Chloride (PVC) Tubing and Conduit.
 - 7. NEMA TC 3 - PVC Fittings for Use with Rigid PVC Conduit and Tubing.

1.03 SYSTEM DESCRIPTION

- A. Raceway and boxes located as indicated on Drawings, and at other locations required for splices, taps, wire pulling, equipment connections, and compliance with regulatory requirements. Raceway and boxes are shown in approximate locations unless dimensioned. Provide raceway to complete wiring system.
- B. Outdoor Locations, Above Grade: Use rigid steel, intermediate metal conduit, and electrical metallic tubing. Provide cast metal or nonmetallic outlet, pull, and junction boxes.
- C. Wet and Damp Locations: Provide galvanized rigid steel conduit, intermediate metal conduit and electrical metallic tubing. Provide cast metal or nonmetallic outlet, junction, and pull boxes. Provide flush mounting outlet box in finished areas.
- D. Concealed Dry Locations: Provide rigid steel, intermediate metal conduit, electrical and metallic tubing. Provide sheet-metal boxes. Provide flush mounting outlet box in finished areas. Provide hinged enclosure for large pull boxes.
- E. Exposed Dry Locations: Use rigid steel conduit to 8 feet above flush floor or to first junction box. Use rigid steel conduit, intermediate metal conduit or electrical metallic tubing at other locations. Provide sheet-metal boxes. Provide flush mounting outlet box in finished areas. Provide hinged enclosure for large pull boxes.

1.04 DESIGN REQUIREMENTS

- A. Minimum Raceway Size:
 - 1. Above floor: 1/2 inch unless otherwise specified.
 - 2. Underground: 3/4 inch unless otherwise specified.

1.05 SUBMITTALS

- A. Product Data: Submit for the following:
 - 1. Flexible metal conduit.
 - 2. Liquidtight flexible metal conduit.
 - 3. Nonmetallic conduit.
 - 4. Raceway fittings.
 - 5. Conduit bodies.
 - 6. Surface raceway.
 - 7. Wireway.
 - 8. Pull and junction boxes.
- B. Manufacturer's Installation Instructions: Submit application conditions and limitations of use stipulated by Product testing agency specified under Regulatory Requirements. Include instructions for storage, handling, protection, examination, preparation, and installation of Product.

1.06 CLOSEOUT SUBMITTALS

- A. Project Record Documents:
 - 1. Record actual routing of conduits larger than 2 inch trade size.
 - 2. Record actual locations and mounting heights of outlet, pull, and junction boxes.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Protect conduit from corrosion and entrance of debris by storing above grade. Provide appropriate covering.
- B. Protect PVC conduit from sunlight.

1.08 COORDINATION

- A. Coordinate installation of outlet boxes for equipment connected under Section 26 05 03.
- B. Coordinate mounting heights, orientation and locations of outlets mounted above counters, benches, and backsplashes.

PART 2 - PRODUCTS

2.01 METAL CONDUIT

- A. Manufacturers:
 - 1. Allied Tube and Conduit.
 - 2. Hubbell Inc.
 - 3. AFC.
 - 4. Substitutions: Under provisions of General Specifications.
- B. Rigid Steel Conduit: ANSI C80.1.
- C. Intermediate Metal Conduit (IMC): Rigid steel.
- D. Fittings and Conduit Bodies: NEMA FB 1; material to match conduit.

2.02 PVC COATED METAL CONDUIT

- A. Manufacturers:
 - 1. Occidental Coating.

2. P.C.D.
 3. Robroy Industries.
 4. Substitutions: Under provisions of General Specifications.
- B. Product Description: NEMA RN 1; rigid steel conduit with external PVC coating, 40 mil thick.
- C. Fittings and Conduit Bodies: NEMA FB 1; steel fittings with external PVC coating to match conduit.

2.03 FLEXIBLE METAL CONDUIT

- A. Manufacturers:
1. Acme International.
 2. Electri-Flex Co.
 3. Hubbell Inc.
 4. Substitutions: Under provisions of General Specifications
- B. Product Description: Interlocked steel or aluminum construction.
- C. Fittings: NEMA FB 1.

2.04 LIQUIDTIGHT FLEXIBLE METAL CONDUIT

- A. Manufacturers:
1. Acme International.
 2. Electri-Flex Co.
 3. Hubbell Inc.
 4. Substitutions: Under provisions of General Specifications.
- B. Product Description: Interlocked steel or aluminum construction with PVC jacket.
- C. Fittings: NEMA FB 1.

2.05 ELECTRICAL METALLIC TUBING (EMT)

- A. Manufacturers:
1. Allied Tube and Conduit.
 2. AFC.
 3. Hubbell Inc.
 4. Substitutions: Under provisions of General Specifications.
- B. Product Description: ANSI C80.3; galvanized tubing.
- C. Fittings and Conduit Bodies: NEMA FB 1; steel or malleable iron, compression type.

2.06 NONMETALLIC CONDUIT

- A. Manufacturers:
1. Carlon.
 2. RACO.
 3. Can-Tex.
 4. Substitutions: Under provisions of General Specifications.
- B. Product Description: NEMA TC 2; Schedule 40 or 80 PVC.
- C. Fittings and Conduit Bodies: NEMA TC 3.

2.07 WIREWAY

- A. Manufacturers:
1. Circle AW.
 2. Thomas & Betts Corp.

- 3. Substitutions: Under provisions of General Specifications.
- B. Product Description: General purpose or Raintight type wireway as required.
- C. Knockouts: Manufacturer's standard.
- D. Size: Dimensions as indicated on Drawings or as required by the NEC for the intended application.
- E. Cover: Hinged or screw cover as indicated or as required for the intended applications. Provide with full gaskets when required.
- F. Connector: Flanged.
- G. Fittings: Lay-in type.
- H. Finish: Rust inhibiting primer coating with manufacturer's standard gray enamel finish.

2.08 OUTLET BOXES

- A. Sheet Metal Outlet Boxes: NEMA OS 1, galvanized steel.
 - 1. Luminaire and Equipment Supporting Boxes: Rated for weight of equipment supported; furnish 1/2 inch male fixture studs where required.
 - 2. Concrete Ceiling Boxes: Concrete type.
- B. Nonmetallic Outlet Boxes: NEMA OS 2.
- C. Cast Boxes: NEMA FB 1, Type FD, cast fer alloy. Furnish gasketed cover by box manufacturer. Furnish threaded hubs.
- D. Wall Plates for Finished Areas: As specified in Section 26 27 26.
- E. Wall Plates for Unfinished Areas: Furnish gasketed cover.

2.09 SMALL PULL AND JUNCTION BOXES

- A. Sheet Metal Boxes: NEMA OS 1, galvanized steel.
- B. Hinged Enclosures: As specified.
- C. Surface Mounted Cast Metal Box: NEMA 250, Type 4; flat-flanged, surface mounted junction box:
 - 1. Material: Galvanized cast iron or aluminum.
 - 2. Cover: Furnish with ground flange, neoprene gasket, and stainless steel cover screws.
- D. In-Ground Cast Metal Box: NEMA 250, Type 6, galvanized cast iron, flanged, recessed cover box for flush mounting. Nonskid cover with neoprene gasket and stainless steel cover screws. Cover Legend: "ELECTRIC" or as indicated.
- E. Fiberglass or Concrete Composite Handholes: Die-molded, glass-fiber or concrete composite hand holes. Cable Entrance: Pre-cut 6 inch x 6 inch cable entrance at center bottom of each side. Cover: Glass-fiber or concrete composite, weatherproof cover with nonskid finish. Cover Legend: "ELECTRIC" or as indicated.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify outlet locations and routing and termination locations of raceway prior to rough-in.

3.02 INSTALLATION

- A. Ground and bond raceway and boxes in accordance with Section 26 05 26.
- B. Fasten raceway and box supports to structure and finishes in accordance with Section 26 05 29.
- C. Identify raceway and boxes in accordance with Section 26 05 53.
- D. Arrange raceway and boxes to maintain headroom and present neat appearance.

3.03 INSTALLATION - RACEWAY

- A. Install conduit in accordance with NECA "Standard of Installation".
- B. Raceway routing is shown in approximate locations unless dimensioned. Route to complete wiring system.
- C. Arrange raceway supports to prevent misalignment during wiring installation.
- D. Support raceway using coated steel or malleable iron straps, lay-in adjustable hangers, clevis hangers, and split hangers.
- E. Group related raceway; support using conduit rack. Construct rack using steel channel specified in Section 16070; provide space on each for 25 percent additional raceways.
- F. Do not support raceway with wire or perforated pipe straps. Remove wire used for temporary supports
- G. Do not attach raceway to ceiling support wires or other piping systems.
- H. Construct wireway supports from steel channel specified in Section 26 05 29.
- I. Route exposed raceway parallel and perpendicular to walls.
- J. Route raceway installed above accessible ceilings parallel and perpendicular to walls.
- K. Maintain clearance between raceway and piping for maintenance purposes.
- L. Maintain 12 inch clearance between raceway and surfaces with temperatures exceeding 104 degrees F.
- M. Cut conduit square using saw or pipe cutter; de-burr cut ends.
- N. Bring conduit to shoulder of fittings; fasten securely.
- O. Join nonmetallic conduit using cement as recommended by manufacturer. Wipe nonmetallic conduit dry and clean before joining. Apply full even coat of cement to entire area inserted in fitting. Allow joint to cure for minimum 20 minutes.
- P. Install conduit hubs or sealing locknuts to fasten conduit to sheet metal boxes in damp and wet locations and to cast boxes.
- Q. Install no more than equivalent of three 90 degree bends between boxes. Install conduit bodies to make sharp changes in direction, as around beams. Install hydraulic one-shot bender to fabricate or factory elbows for bends in metal conduit larger than 2 inch size.
- R. Avoid moisture traps; install junction box with drain fitting at low points in conduit system.
- S. Install fittings to accommodate expansion and deflection where raceway crosses seismic, control and expansion joints.
- T. Install suitable pull string or cord in each empty raceway except sleeves and nipples.
- U. Install suitable caps to protect installed conduit against entrance of dirt and moisture.
- V. Surface Raceway: Install flat-head screws, clips, and straps to fasten raceway channel to surfaces; mount plumb and level. Install insulating bushings and inserts at connections to outlets and corner fittings.
- W. Close ends and unused openings in wireway.
- X. Exposed conduit floor penetrations shall be plastic coated steel or intermediate metal conduit or PVC wrapped (10 mil tape with 1/2 lap) galvanized rigid steel or intermediate metal conduit. Concealed floor penetrations in a finished wall or chase may be thickwall Schedule 80 non-metallic conduit. Extend non-metallic conduit to nearest junction box.

3.04 INSTALLATION - BOXES

- A. Install wall mounted boxes at elevations to accommodate mounting heights as indicated on Drawings.
- B. Adjust box location up to 5 feet prior to rough-in to accommodate intended purpose.
- C. Orient boxes to accommodate wiring devices oriented as specified in Section 26 27 26.
- D. Install pull boxes and junction boxes above accessible ceilings and in unfinished areas only.
- E. In Accessible Ceiling Areas: Install outlet and junction boxes no more than 6 inches from ceiling access panel or from removable recessed luminaire.
- F. Locate flush mounting box in masonry wall to require cutting of masonry unit corner only. Coordinate masonry cutting to achieve neat opening.
- G. Do not install flush mounting box back-to-back in walls; install with minimum 6 inches separation. Install with minimum 24 inches separation in acoustic rated walls.

- H. Secure flush mounting box to interior wall and partition studs. Accurately position to allow for surface finish thickness.
- I. Install stamped steel bridges to fasten flush mounting outlet box between studs.
- J. Install flush mounting box without damaging wall insulation or reducing its effectiveness.
- K. Install adjustable steel channel fasteners for hung ceiling outlet box.
- L. Do not fasten boxes to ceiling support wires or other piping systems.
- M. Support boxes independently of conduit.
- N. Install gang box where more than one device is mounted together. Do not use sectional box.
- O. Install gang box with plaster ring for single device outlets.
- P. Set floor boxes level.

3.05 INTERFACE WITH OTHER PRODUCTS

- A. Install conduit to preserve fire resistance rating of partitions and other elements, using materials and methods in accordance with General Specifications.
- B. Route conduit through roof openings for piping and ductwork or through suitable roof jack with pitch pocket. Coordinate location with roofing installation specified in Specifications.
- C. Locate outlet boxes to allow luminaires positioned as indicated on Drawings.
- D. Align adjacent wall mounted outlet boxes for switches, thermostats, and similar devices.

3.06 ADJUSTING

- A. Adjust flush-mounting outlets to make front flush with finished wall material.
- B. Install knockout closures in unused openings in boxes.

3.07 CLEANING

- A. Clean interior of boxes to remove dust, debris, and other material.
- B. Clean exposed surfaces and restore finish.

END OF SECTION 26 05 33

SECTION 26 05 53
IDENTIFICATION FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes building wire and cable; metal clad cable; and wiring connectors and connections.
- B. Section Includes:
 - 1. Nameplates.
 - 2. Labels.
 - 3. Wire markers.
 - 4. Conduit markers.
 - 5. Stencils.
 - 6. Underground Warning Tape.
 - 7. Lockout Devices.
- C. Related Sections:
 - 1. Section - Paints and Coatings: Execution requirements for painting specified by this section.

1.02 SUBMITTALS

- A. Product Data:
 - 1. Submit manufacturer's catalog literature for each product required.
 - 2. Submit electrical identification schedule including list of wording, symbols, letter size, color coding, tag number, location, and function.
- B. Samples:
 - 1. Submit two tags, actual size.
 - 2. Submit two labels, actual size.
- C. Manufacturer's Installation Instructions: Indicate installation instructions, special procedures, and installation.

1.03 CLOSEOUT SUBMITTALS

- A. Project Record Documents: Record actual locations of tagged devices; include tag numbers.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Accept identification products on site in original containers. Inspect for damage.
- B. Accept materials on site in original factory packaging, labeled with manufacturer's identification, including product density and thickness.
- C. Protect insulation from weather and construction traffic, dirt, water, chemical, and mechanical damage, by storing in original wrapping.

1.05 ENVIRONMENTAL REQUIREMENTS

- A. Install labels and nameplates only when ambient temperature and humidity conditions for adhesive are within range recommended by manufacturer.

1.06 EXTRA MATERIALS

- A. Furnish two containers of spray-on adhesive.

PART 2 - PRODUCTS

2.01 NAMEPLATES

- A. Product Description: Laminated three-layer plastic with engraved white letters on black contrasting background color.
- B. Letter Size:
 - 1. 1/8 inch high letters for identifying individual equipment and loads.
 - 2. 1/4 inch high letters for identifying grouped equipment and loads.
- C. Minimum nameplate thickness: 1/8 inch.

2.02 LABELS

- A. Labels: Embossed adhesive tape, with 3/16 inch white letters on black background.

2.03 WIRE MARKERS

- A. Description: Cloth tape, split sleeve, or tubing type wire markers.
- B. Legend:
 - 1. Power and Lighting Circuits: Branch circuit or feeder number.
 - 2. Control Circuits: Control wire number as indicated on shop drawings.

2.04 CONDUIT AND RACEWAY MARKERS

- A. Description: Labels fastened with adhesive.
- B. Color:
 - 1. 480 Volt System: Black lettering on white background.
 - 2. 208 or 240 Volt System: Black lettering on white background.
 - 3. Fire Alarm System: Red lettering on white background.
 - 4. Telephone System: Blue lettering on white background.
- C. Legend:
 - 1. Fire Alarm System: FIRE ALARM.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Degrease and clean surfaces to receive adhesive for identification materials.

3.02 INSTALLATION

- A. Install identifying devices after completion of painting.
- B. Nameplate Installation:
 - 1. Install nameplate parallel to equipment lines.

2. Install nameplate for each electrical distribution and control equipment enclosure with corrosive-resistant mechanical fasteners, or adhesive.
 3. Install nameplates for each control panel and major control components located outside panel with corrosive-resistant mechanical fasteners, or adhesive.
 4. Secure nameplate to equipment front using screws, rivets, or adhesive.
 5. Secure nameplate to inside surface of door on recessed panelboard in finished locations.
 6. Install nameplates for the following:
 - a. Switchboards.
 - b. Panelboards.
 - c. Service Disconnects.
- C. Label Installation:
1. Install label parallel to equipment lines.
 2. Install label for identification of individual control device stations.
 3. Install labels for permanent adhesion and seal with clear lacquer.
- D. Wire Marker Installation:
1. Install wire marker for each conductor at panelboard, pull boxes, outlet and junction boxes, and each load connection.
 2. Mark data cabling at each end. Install additional marking at accessible locations along the cable run.
 3. Install labels at data outlets identifying patch panel and port designation.
- E. Conduit Marker Installation:
1. Install conduit marker for each conduit longer than 6 feet.
 2. Conduit Marker Spacing: 20 feet on center.

END OF SECTION 26 05 53

**SECTION 26 51 00
INTERIOR LIGHTING**

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes interior luminaires, lamps, ballasts, and accessories.
- B. Related Sections:
 - 1. Section 26 05 26 - Grounding and Bonding for Electrical Systems.
 - 2. Section 26 05 33 - Raceway and Boxes for Electrical Systems.

1.02 SUBMITTALS

- A. Shop Drawings: Indicate dimensions and components for each luminaire not standard product of manufacturer.
- B. Product Data: Submit manufacturer standard submittal data to include product data, dimensions, ratings, and performance data.

1.03 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years documented experience.

1.04 FIELD MEASUREMENTS

- A. Verify field measurements prior to fabrication.

PART 2 - PRODUCTS

2.01 INTERIOR LUMINAIRES

- A. Product Description: Complete interior luminaire assemblies, with features, options, and accessories as scheduled.

2.02 LED LIGHT FIXTURES

- A. General:
 - 1. LED light fixtures shall be in accordance with IES, NFPA, UL, as shown on the drawings, and as specified.
 - 2. LED light fixtures shall be Reduction of Hazardous Substances (RoHS)-compliant.
 - 3. LED drivers shall include the following features unless otherwise indicated:
 - a. Minimum efficiency: 85% at full load.
 - b. Minimum Operating Ambient Temperature: -20° C. (-4° F.)
 - c. Input Voltage: 120 - 277V (±10%) at 60 Hz.

- d. Integral short circuit, open circuit, and overload protection.
 - e. Power Factor: ≥ 0.95 .
 - f. Total Harmonic Distortion: $\leq 20\%$.
 - g. Comply with FCC 47 CFR Part 15.
 - h. Manufacturer minimum 5-year standard warranty.
4. LED modules shall include the following features unless otherwise indicated:
- a. Comply with IES LM-79 and LM-80 requirements.
 - b. Minimum CRI 80 and color temperature 3000° K unless otherwise specified in LIGHTING FIXTURE SCHEDULE.
 - c. Minimum Rated Life: 50,000 hours per IES L70.
 - d. Light output lumens as indicated in the LIGHTING FIXTURE SCHEDULE.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Install surface mounted luminaires plumb and adjust to align with building lines and with each other. Secure to prevent movement.
- B. Install wall-mounted luminaires at height as indicated on Drawings.
- C. Install accessories furnished with each luminaire.
- D. Connect luminaires to branch circuit outlets provided under Section 26 05 33 as indicated on Drawings.
- E. Make wiring connections to branch circuit using building wire with insulation suitable for temperature conditions within luminaire.
- F. Install specified lamps in each luminaire.
- G. Ground and bond interior luminaires in accordance with Section 26 05 26.

3.02 FIELD QUALITY CONTROL

- A. Operate each luminaire after installation and connection. Inspect for proper connection and operation.

3.03 ADJUSTING

- A. Aim and adjust luminaires as indicated on Drawings.

3.04 CLEANING

- A. Remove dirt and debris from enclosures.
- B. Clean photometric control surfaces as recommended by manufacturer.
- C. Clean finishes and touch up damage.

3.05 PROTECTION OF FINISHED WORK

- A. Relamp or replace luminaires having failed lamps at Substantial Completion.

END OF SECTION 26 51 00

CITY OF IMPERIAL
WASTEWATER TREATMENT
PLANT DEMOLITION PROJECT



SPECIAL CONDITIONS

APPENDIX B
OCTOBER 24, 2025



CITY OF IMPERIAL BID NO. 2025-019
THG PROJECT NUMBER: 173.138

SPECIAL CONDITIONS

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1. PROJECT DESCRIPTION

The City of Imperial Wastewater Treatment Plant Demolition Project is primarily being completed to allow the area currently occupied by existing structures no longer used or minimally used to be occupied by new wastewater units or facilities. The City of Imperial is planning to construct a new wastewater influent pump station and headworks structure in the demolition area currently occupied by the non-used or minimally used wastewater structures. In addition, a new modular office is to be placed in the demolition area at the conclusion of the project. The following existing wastewater structures or ancillary items are to undergo minor, major or total demolition. Refer to plan sheet number 2 to observe the locations of the existing wastewater structures or ancillary items.

1. Operations Building – Minor Demolition – Also includes the installation of new light fixtures
2. Clarifier Number 1 – Total Demolition
3. Clarifier Number 2 – Major Demolition
4. Sludge Pump Station Building including Scum Pit – Major Demolition - Also includes installation of new lighting within the building, refurbishing emergency light fixtures, backfilling the scum pit and installation of pcc slab at the top of the scum pit and similar improvements.
5. Septic Dump Structure – Total Demolition
6. PCC Retaining Wall – Total Demolition
7. Sidewalk and A.C. Pavement near Structures – Total Demolition
8. Existing Crushed Rock east of Septic Dump Structure – Demolition Salvage – To be removed and placed at another location at the wastewater treatment plant

This project also includes other non-demolition improvements as follows:

1. Installation of a modular office building with approximate dimensions of 12 feet x 60 feet within the demolition area after demolition activities are completed.
2. Sealing a cracked opening along a construction cold joint at the pcc wall and channel of the *Ultraviolet Disinfection Facility* to stop an existing wastewater effluent leak.
3. 3. Completing site grading within a portion of the demolition area after demolition work is completed. This item includes obtaining, transporting and placing native material obtained at the City of Imperial Water Treatment Plant as borrow material to complete the site grading work.

Refer to the improvement plans and specifications to determine the complete demolition scope of work and any improvements associated with the above listed items.

The demolition area is located within the existing City of Imperial Wastewater Treatment Plant Site. The demolition limits are illustrated on the plans. Demolition excavations are to be completed within the demolition limit lines illustrated on the plans. There are existing underground pipelines and utilities outside of the demolition lines. The location of many of the existing underground pipelines and utilities outside of the demolition lines is not known. It shall therefore be required that all demolition excavations remain inside of the demolition boundary lines illustrated on the plans.

A lead and asbestos survey was completed by Nicklaus Engineering, Inc. for Clarifier Number 1, Clarifier Number 2 and the Operation Building in October 2025. The Nicklaus Engineering asbestos and lead based paint survey report identified asbestos and lead in primarily the Operations Building. A metal standpipe at Clarifier Number 1 was identified to contain lead. Only a limited amount of demolition work is being completed in the Operations Building as illustrated on plan sheets 3 and 20. The contractor shall include

the demolition removal and disposal of lead and asbestos items in the Operations Building for those items “called out” for demolition on the plans. If items identified as containing asbestos or lead in the Nicklaus Engineering Report are not “called out” for demolition on improvement plans 3 and 20 then those items shall be “left in place” and remain. The metal stand pipe at Clarifier Number 1 is to be removed and disposed of as a demolition item. The Contractor shall remove and dispose of asbestos and lead items in accordance with the recommendations contained in the Nicklaus Engineering, Inc. October 2025 Report.

An Imperial County Air Pollution Control District Construction/Demolition Notification Form and a U.S Environmental Protection Agency (EPA) Notification of Demolition and Renovation Form are to be submitted to the appropriate agencies prior to the commencement of construction activities. The forms have been included in items 9 and 10 of this document. Both forms require that the demolition contractor be listed on the forms. Since the contractor to complete the demolition project will not be known until the processing of the contract documents between the City of Imperial and the Contractor is finished, it will be necessary for the forms to be completed by the City of Imperial Construction Manager and Contractor and submitted to the appropriate agencies after the agreement between the City of Imperial and Contractor is fully executed.

This project shall be completed in conformance with the improvement plans, technical specifications, special conditions and contract documents. The improvement plans technical specifications and special conditions were prepared specifically for this project and supersede the City of Imperial municipal construction and demolition recycling program requirements. The Technical Specifications and Special Conditions were prepared in accordance with the California Code of Regulations (CCR's) including the California Green Building Standards Code. A detailed explanation of demolition requirements, demolition material diversion requirements and demolition material recycling, reuse, salvage and disposal requirements are contained in the Technical Specifications. The Contractor shall obtain a demolition permit from the City of Imperial prior to the commencement of construction activities.

2. CONSTRUCTION WATER

The Contractor can obtain potable construction water for the project from the City of Imperial Wastewater Treatment plant facility at a location designated by the City of Imperial Wastewater Plant Chief Operator. The contractor shall provide any required connection fittings, as designated by the Chief Operator, including but not limited to pipe fittings, reducers, flowmeters, backflow preventors and similar items.

3. CITY OF IMPERIAL WASTEWATER TREATMENT PLANT ARCHIVE IMPROVEMENT PLANS

There are two (2) sets of archived City of Imperial Wastewater Treatment Plant improvement plans which illustrate a portion of the facilities and structures to undergo demolition. It was not possible to excavate the below grade portions of structures and facilities during the preparation of the design documents. The archived plans illustrate a portion of the existing below grade structures and facilities to undergo demolition. The contractor is encouraged during bid preparation to determine the configuration and quantity of demolition material illustrated on the archived plans.

An archived set of City of Imperial Wastewater Treatment Plant improvement plans prepared by Wisley & Ham dated 1976 is comprised of 46 plan sheets. An archived set of City of Imperial Wastewater Treatment Plant improvement plans prepared by Black and Veatch dated 1994/1995 is comprised of 47 plan sheets.

The archived plans have been included with the electronic documents advertised for bidding. Hard copy archived plans can be obtained for \$120 per set of archived plans (\$240 for both sets of archived plans) by contacting the City of Imperial Public Services Director at phone number (760) 355-3336 or by e-mail at ddale@imperial.ca.gov

4. NATIVE EARTH BORROW MATERIAL

It was estimated that it will require 3,606 cubic yards of native earth to backfill the demolition excavations at the Imperial WWTP and complete the final site grading per plan sheet 30. The 3,606 cubic yards of imported native material was based on a 20 percent shrinkage factor after the imported material is placed and compacted. The native earth estimate completed by the design engineer is included in the Special Conditions Section Table D quantity estimates. The contractor is responsible for completing his/her own native earth import estimate including shrinkage during the bidding phase and be responsible for determining the quantity of native earth import yardage required to complete the demolition excavation backfilling and site grading work. The contractor shall rely on his/her estimated native earth import yardage number and shall not be allowed additional compensation by claiming the native earth import yardage assumed during the bidding period was less than the native earth import yardage required during the construction period.

There is a sufficient quantity of native earth borrow material at the City of Imperial Water Treatment Plant to backfill the demolition excavations and complete the final native earth site grading as illustrated on plan sheet 30. The Contractor shall contact the City of Imperial Wastewater Operator, City of Imperial Public Services Director and Construction Manager prior to commencing transporting the native borrow material from the City of Imperial Water Treatment Plant to the City of Imperial Wastewater Treatment Plant. Entrance and truck routing through the Water and Wastewater Treatment Plants, daily time schedule for entering and exiting the Water and Wastewater Treatment Plants, location of native borrow material to be transported and other issues shall be reviewed.

The City of Imperial Water Treatment Plant is located at 201 South B Street, Imperial, CA 92251. The City of Imperial Wastewater Treatment Plant is located at 701 West 14th Street Imperial CA, 92251. The suggested routing summary between the City of Imperial Water Treatment Plant and City of Imperial Wastewater Treatment Plant is as follows:

Starting Point: 201 South B Street, Imperial, CA 92251 (Water Treatment Plant)

Ending Point: 701 West 14th Street, Imperial, CA 92251 (Wastewater Treatment Plant)

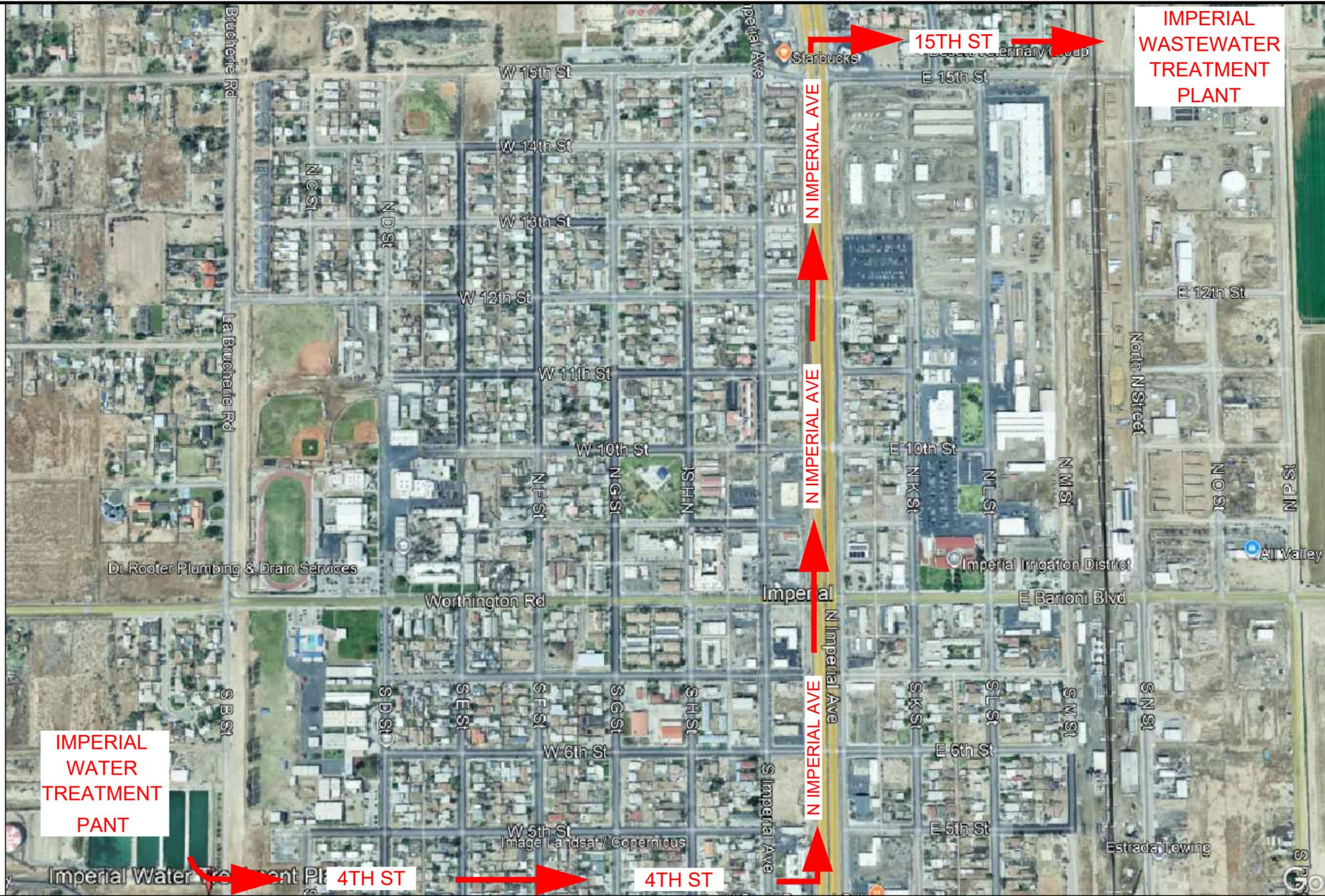
Estimated Roadway Distance from WTP to WWTP: Approximately 1.2 miles

Estimated Travel Time: About 6 minutes by truck under normal traffic conditions.

Suggested Route:

1. Head north on B Street toward 2nd Street
2. Turn left onto 2nd Street
3. Turn right onto Imperial Avenue
4. Turn left onto 14th Street
5. Continue west to 701 West 14th Street (WWTP)

The contractor shall be allowed to use other routes; however, the streets used on the other routes shall be required to be along truck routes. Other routes may prove more favorable and may be slightly shorter or longer in terms of distance and may be slightly shorter or longer in terms of time. See the attached google earth-based map illustrating the suggested truck route on the following page.



The Holt Group
ENGINEERING PLANNING SURVEYING

1601 N. Imperial Ave. El Centro, Ca 92243 760.337.3883
201 E. Hobsonway Blythe, Ca 92225 760.922.4658

EXHIBIT: **CITY OF IMPERIAL – WASTEWATER TREATMENT PLANT DEMOLITION PROJECT**
HAUL ROUTE FROM IMPERIAL WATER TREATMENT PLANT TO IMPERIAL WASTE WATER TREATMENT PLANT

CLIENT: CITY OF IMPERIAL

SHEET: 1
OF 1 SHEETS

DATE: 10-24-2025
THG JOB NUMBER: 173.138

5. GEOTECHNICAL TESTING

The contractor shall provide the Geotechnical Testing required for this project. The Geotechnical Testing shall consist of obtaining compaction tests for backfilling demolition excavations, final site grading, filling portions of existing structures with compacted native earth and class 2 base installation as required by the plans. The Geotechnical Testing shall include the preparation of proctor curves to determine the maximum density of native import material and completion of compaction testing. See Grading Plan Sheet 30 and other plan sheets for the native earth backfill placement, compaction and testing requirements.

No concrete testing is required for this project; however, the Contractor shall be required to forward all concrete truck delivery slips to the Construction Manager. The Construction Manager will verify that the sacks of cement per cubic yard of concrete and the compressive strength psi information on the concrete truck delivery slips is compliant with the concrete specification requirements.

6. IMPERIAL COUNTY SOLID WASTE SITES, INERT DEBRIS RECYCLING CENTERS AND SCRAP METAL RECYCLING VENDOR

To assist the Contractor in identifying Solid Waste Sites, Inert Debris Recycling Centers and reuse or recycling vendors in Imperial County research of establishments was conducted during the project design with the assistance of the Local Enforcement Agency (LEA). The establishment list following this paragraph is not intended to be all inclusive and the contractor is encouraged to identify any other establishments in Imperial County, or other Counties, as the Contractor deems appropriate, however; all establishments shall be approved by the Local Enforcement Agency (LEA) and confirmed to be approved by the LEA by the Construction Manager prior to delivering demolition debris to the establishments. The Local Enforcement Agency is the Imperial County Public Health Department – Environmental Health Division. Following is the list of establishments identified during the project design period:

1. Salton City Solid Waste Site (Operated by Burrtec Waste Industries)

1.1 Address: 935 West Highway 86, Salton City, CA 92275

1.2 Contact: David Brischke, (909) 429-4200

1.3 SWIS Number: 13-AA-0011

1.4 Permit Status: This facility is permitted to operate as a C&D/inert debris recycling facility through its Solid Waste Facility Permit. It accepts source separated material and comingled C&D debris, along with inert debris.

2. Imperial Landfill (Operated by Republic Services)

2.1 Address: 3354 Dogwood Road, Imperial, CA 92251

2.2 Contact: Steven Hall, (760) 355-0004

2.3 SWIS Number: 13-AA-0019

2.4 Permit Status: This facility is permitted to operate as a C&D/inert debris processing facility through its Solid Waste Facility Permit. It accepts source separated material and comingled C&D waste, along with inert debris.

3. Elms Equipment Inert Debris Recycling Center

3.1 Addresses:

3.1.1 330 West Aten Road, Imperial, CA 92251

3.1.2 4201 Dogwood Road, Brawley, CA 92227

3.2 Contact: Alan Huber, Cell (760) 427-4074; Office (760) 356-6200

3.3 SWIS Number: N/A

3.4 Permit Status: The LEA determined these two sites meet the definition of an *inert debris recycling center*, and are exempt from a Solids Waste Facility Permit, as outlined in California Code of Regulations (CCR) Title 14, Section 17381.1. This facility is allowed to accept only inert debris, as defined by CCR Title 14, Section 17381.1. No C&D debris is allowed at this facility.

3.5 Specific Requirements: Material brought on-site must be allowed under CCR 17381(k)(1), it must be source separated, the residual amount of solid waste shall be less than 10 percent of the amount of source separated material received by weight, and the amount of putrescible waste in the source separated material shall be less than 1 percent of the amount of source separated material received by weight.

4. SA Recycling – Scrap Metal Recycling

4.1 Address: 460 East Holton Road

4.2 Contact: Freddie Reyes

4.3 SWIS Number: N/A

4.4 Permit Status: SA Recycling has been determined by the LEA as an acceptable facility to take iron and steel items for reuse or recycling.

7. DIVERSION GUIDELINE NON-COMPLIANCE DEMOLITION TONNAGE DEDUCTION

The City of Imperial could face substantial fines for not meeting the required diversion requirements of 100 percent of inert material and a minimum of 65 percent of C & D debris (non-inert material) as required by Technical Condition Section 4. The contractor shall be fined \$500/ton for each ton of demolition material which is not in compliance with the diversion requirements. The fine shall be implemented by means of a negative change order in which the fine amount will be deducted from the contractor's contract amount per the agreement between the City of Imperial and the Contractor.

8. LEAD AND ASBESTOS SURVEY

A lead and asbestos survey was completed by Nicklaus Engineering, Inc. for Clarifier Number 1, Clarifier Number 2 and the Operations Building in October 2025. The Nicklaus Engineering asbestos and lead based paint survey report identified asbestos and lead primarily in the Operation Building. A metal standpipe at Clarifier Number 1 was identified to contain lead. Only a limited amount of demolition work is being completed in the Operations Building as illustrated on plan sheets 3 and 20. The contractor shall include the demolition removal and disposal of lead and asbestos items in the Operations Building for those items “called out” for demolition on the plans. If items identified as containing asbestos or lead in the Nicklaus Engineering Report are not “called out” for demolition on improvement plans 3 and 20 then those items shall be “left in place” and remain. The metal standpipe at Clarifier Number 1 is to be removed and disposed of as a demolition item. The Contractor shall remove and dispose of asbestos and lead items in accordance with the recommendations contained in the Nicklaus Engineering, Inc. October 2025 Report.

The Asbestos and Lead Based Paint Survey Report prepared by Nicklaus Engineering, Inc. dated October 2025 follows this Special Conditions Section.

Asbestos and Lead Based Paint Survey Report

Imperial Wastewater Treatment Plant

Imperial, California

October 2025

Prepared for:

The Holt Group
1601 North Imperial Avenue
El Centro, CA 92243

Prepared by:

Nicklaus Engineering, Inc.
1851 W. 24th St.
Yuma, AZ 85364

NICKLAUS
ENGINEERING, INC.

Project: 025-0258.0000000

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1.0 INTRODUCTION

Nicklaus Engineering (Nicklaus) was contracted by The Holt Group (Holt) to conduct a survey to identify asbestos containing materials (ACM) and lead based paint (LBP) at the Imperial Wastewater Treatment Plant in Imperial, California. The survey is to support planned demolition activities at the facility. The survey was conducted on September 10, 2025.

2.0 BACKGROUND

The Imperial Wastewater Treatment Plant is an approximately 18-acre site located at 701 East 14th Street in the City of Imperial in Imperial County, California. Several upgraded facilities have recently been constructed at the plant to implement newer treatment technologies and increase the plant's treatment capacity. As part of the plant upgrade, older buildings at the facility are planned for demolition or renovation. This survey was conducted on the office/laboratory building (approximately 1,450 square feet) and two adjacent clarifiers.

2.1 Regulatory Background

Asbestos is a naturally occurring fibrous mineral that has been widely used in thousands of building materials. Historically, asbestos was added to building products due to its fire resistant, anti-corrosive, anti-oxidizing, and strengthening properties. ACM is defined by the California Code of Regulations (CCR) Title 17 as materials that contain 1% asbestos content or more. CCR Title 17 further defines materials containing asbestos in amounts less than 1% as asbestos containing construction material (ACCM). ACM and ACCM may release asbestos fibers if damaged or improperly cut, sanded, or graded. Inhalation of asbestos fibers may cause diseases such as asbestosis, mesothelioma, and lung cancer. Although asbestos has been used in building products throughout human history, use of asbestos peaked in the mid-20th century. Starting in the 1980s, many asbestos products were banned. However, asbestos products could still be imported and installed. Therefore, US Environmental Protection Agency (EPA) and the California Department of Environmental Protection (Cal/EPA) requires assessment for asbestos prior to demolition, even in newer buildings.

In the United States, LBP is defined as paint or other surface coating that contains 0.5% lead by dry weight or more. Exposure to lead dust from damaged LBP or through improper renovation/demolition techniques affecting building components with LBP can cause developmental damage to children as well as respiratory issues and cancer to workers and building tenants. All use of LBP was banned in the United States in 1978. However, LBP may still be present in buildings that predate the ban. In addition, lead may be present within certain materials such as porcelain and ceramics (known as lead containing materials). Improper demolition of these materials may also present health hazards. In

addition, some unpainted materials (such as ceramic and porcelain) may contain lead in glazing and are classified as lead containing materials (LCM). While not LBP, these materials may require special handling during demolition and/or disposal.

3.0 METHODS

The buildings were assessed for ACM/ACCM according to methods defined in the Asbestos Hazard and Emergency Response Act (AHERA). Materials that potentially contain asbestos were visually identified. The condition, friability, and approximate quantity was determined for each identified material. Representative bulk samples were then collected of each material. The number of samples collected from each material was determined using the “3-5-7” rule defined in AHERA. Samples collected were submitted to EMSL laboratories for analysis for asbestos content by polarized light microscopy (PLM) using EPA method 600/R-93/116. EMSL is certified by the National Voluntary Laboratory Accreditation Program (NVLAP) for asbestos analysis by PLM.

The buildings were assessed for LBP by analyzing painted and coated surfaces *in situ* using a handheld x-ray fluorescence (XRF) analyzer. All painted/coated building components in the buildings were analyzed systematically by building side going room to room (the north side of the building was designated as side “A,” with sides “B,” “C,” and “D” proceeding in a clockwise fashion). The color, condition, and substrate were recorded for each building component assessed. In accordance with CCR Title 8, surfaces with an XRF result of 1.0 milligrams per square centimeter (mg/cm²) were identified as building components containing LBP.

4.0 FINDINGS

The following section summarizes observations and analytical results resulting from the survey.

4.1 Asbestos

During the asbestos survey, seventeen (17) homogenous materials of suspected ACM were identified. A total for forty-six (46) bulk samples of these materials were collected, thirteen (13) of which contained asbestos. Materials identified as ACM include:

- Black Sink Undercoat (HM-5) (laboratory only): contains 2% chrysotile
- Gray Epoxy Floor Coat (HM-7): contains 5% chrysotile
- Residual Floor Tile Mastic (HM-8): contains 4% chrysotile
- Laboratory Benchtops (HM-9): contains 15% chrysotile

- Mortar (HM-12): contains 2% chrysotile

Table 1 provides a log of all asbestos samples collected and their laboratory results. Figure 1 shows the samples that were identified through laboratory analysis as ACM and/or non-ACM for the identified sampling locations. Appendix A provides the complete laboratory report.

4.2 Lead Based Paint

During the LBP survey, one hundred forty-seven (147) building components were assessed by XRF analysis for lead content. Of these, three (3) building components were identified as containing LBP:

- Red painted metal drawers in laboratory
- Yellow painted metal drawers in laboratory (note: yellow drawers contained 0.9 mg/cm² of lead. Although this is below the 1.0 mg/cm² LBP threshold, it is within the XRF margin of error of ± 0.1 mg/cm² of the threshold and is recommended to be considered LBP.)
- Yellow metal stand pipe at Clarifier #1

In addition, two (2) materials were identified as LCM:

- 4" Blue Ceramic Wall Tile
- 6" Blue Ceramic Wall Tile

Figure 2 shows the location of materials identified as containing LBP or as LCM. Appendix B provides the complete XRF log of the lead survey.

5.0 Recommendations

The following section provides recommendations for abatement, removal, and/or disposal of identified ACM and LBP/LCM that should be considered during the demolition or renovations.

5.1 Asbestos

All identified ACM must be removed prior to commencing any demolition or renovation activities and disposed of in accordance with CCR Title 17. Gray epoxy floor coat, residual floor mastic, and mortar is considered Class II OSHA work and must be abated using enclosures and wet methods. Removal of sink undercoat and laboratory benchtops is considered Class III OSHA work. These materials may be removed as whole pieces,

without cutting or damaging them, and wrapped in polyvinyl sheeting. If removed and wrapped properly, these materials may typically be disposed of in municipal landfills. It is recommended that disposal facilities be identified and contacted prior to beginning abatement activities to determine their acceptance criteria. Abatement of these materials must be performed by personnel that have obtained AHERA certification in the class of work that is to be performed and licensed (as applicable) in California.

5.2 Lead Based Paint

All identified building components with LBP were intact and do not require stabilization prior to removal. It is recommended that these building components be removed without damaging their painted surfaces and wrapped in polyvinyl sheeting. It is recommended that disposal facilities be identified and contacted prior to beginning abatement activities to determine their acceptance criteria. However, it is likely that a toxic characteristic leaching procedure (TCLP) or similar analysis to determine toxicity will be required.

Identified LCM is not subject to CCR Title 8 removal requirements or the EPA Lead Renovation, Repair, and Painting Rule (RRP) and may be disposed of as general construction debris. However, dust generated from these materials during demolition activities may pose a risk to workers. Furthermore, if co-mingled with general construction debris waste streams, degraded LCM may raise the toxicity of those waste streams to a level that would require special and more costly disposal requirements. Therefore, it is recommended that damage to the ceramic tile be minimized during removal. It is further recommended that the tile be segregated from the general construction debris waste stream. A TCLP or similar test may then be conducted to determine if the tile may be disposed of in a municipal landfill.

Table 1
Asbestos Sample Log
Imperial Wastewater Treatment Plant
Imperial, California

HM#	Material Description	Sample ID	Condition	Friability	Quantity	Location	Sample Layers	Results
1	Drywall/Joint Compound	IWWTP-A-01	Good	NF	N/A	Breakroom Northeast corner behind door	3	None Detected (Drywall)
								None Detected (Joint Compound)
								None Detected (Tape)
1	Drywall/Joint Compound	IWWTP-A-02	Good	NF	N/A	Restroom foyer, South wall	1	None Detected (Joint Compound)
1	Drywall/Joint Compound	IWWTP-A-03	Good	NF	N/A	Breakroom Southwest corner	3	None Detected (Drywall)
								None Detected (Joint Compound)
								None Detected (Tape)

HM#	Material Description	Sample ID	Condition	Friability	Quantity	Location	Sample Layers	Results
2	Black Covebase/Mastic	IWWTP-A-04	Good	NF	N/A	Breakroom by door to storage room	2	None Detected (Covebase)
								None Detected (Mastic)
2	Black Covebase/Mastic	IWWTP-A-05	Good	NF	N/A	Breakroom by South door	2	None Detected (Covebase)
								None Detected (Mastic)
2	Black Covebase/Mastic	IWWTP-A-06	Good	NF	N/A	Breakroom East Wall	2	None Detected (Covebase)
								None Detected (Mastic)
3	2'x4' Ceiling Panel with Fissures	IWWTP-A-07	Good	F	N/A	Breakroom South side	1	None Detected
3	2'x4' Ceiling Panel with Fissures	IWWTP-A-08	Good	F	N/A	Breakroom West side	1	None Detected
3	2'x4' Ceiling Panel with Fissures	IWWTP-A-09	Good	F	N/A	Breakroom East side	1	None Detected
4	12" Beige Floor Tile/Mastic	IWWTP-A-10	Good	NF	N/A	Breakroom by door to office	2	None Detected (Tile)

HM#	Material Description	Sample ID	Condition	Friability	Quantity	Location	Sample Layers	Results
4	12" Beige Floor Tile/Mastic	IWWTP-A-10	Good	NF	N/A	Breakroom by door to office	2	None Detected (Mastic)
4	12" Beige Floor Tile/Mastic	IWWTP-A-11	Good	NF	N/A	Breakroom by door to storage room	2	None Detected (Tile)
								None Detected (Mastic)
4	12" Beige Floor Tile/Mastic	IWWTP-A-12	Good	NF	N/A	Breakroom by north exit door	2	None Detected (Tile)
								None Detected (Mastic)
5	Black Sink Undercoat	IWWTP-A-13	Good	NF	N/A	Breakroom sink	1	None Detected
5	Black Sink Undercoat	IWWTP-A-14	Good	NF	6 Ft ²	Lab Sink	1	2% Chrysotile
5	Black Sink Undercoat	IWWTP-A-15	Good	NF		Lab Sink	1	2% Chrysotile
6	2'x4' Ceiling Panel with Gouges	IWWTP-A-16	Good	F	N/A	Office north side by corridor to breakroom/restroom	1	None Detected
6	2'x4' Ceiling Panel with Gouges	IWWTP-A-17	Good	F	N/A	Office west side	1	None Detected

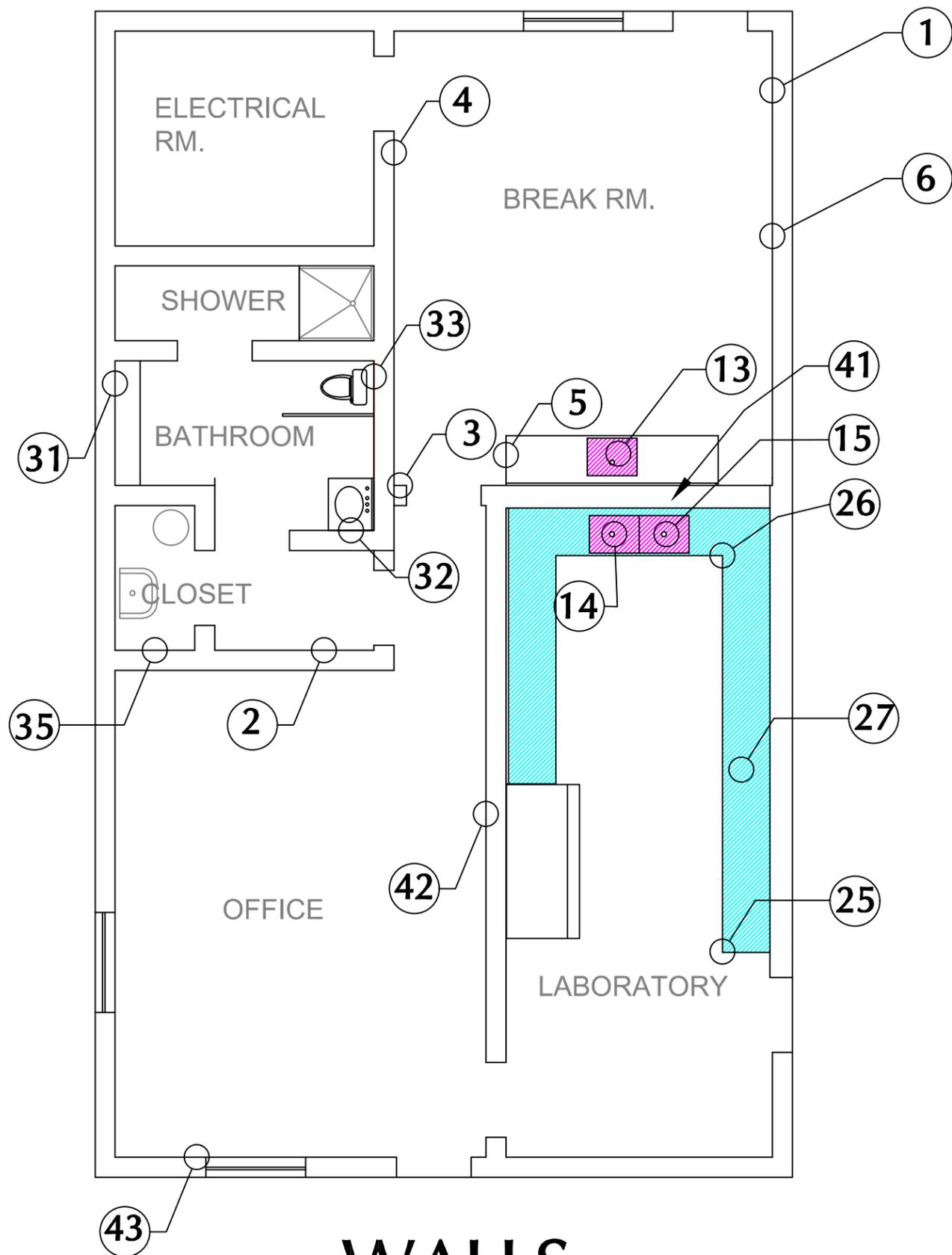
HM#	Material Description	Sample ID	Condition	Friability	Quantity	Location	Sample Layers	Results
6	2'x4' Ceiling Panel with Gouges	IWWTP-A-18	Good	F	N/A	Office East Side	1	None Detected
7	Gray Epoxy Floorcoat	IWWTP-A-19	Significantly Damaged	NF	294 Ft ²	Office north side	1	None Detected
7	Gray Epoxy Floorcoat	IWWTP-A-20	Significantly Damaged	NF		Office middle	1	5% Chrysotile
7	Gray Epoxy Floorcoat	IWWTP-A-21	Significantly Damaged	NF		Office south side	1	4% Chrysotile
8	Residual Floor Tile Mastic	IWWTP-A-22	Significantly Damaged	NF	342 Ft ²	Restroom foyer near door	1	3% Chrysotile
8	Residual Floor Tile Mastic	IWWTP-A-23	Significantly Damaged	NF		Restroom foyer near door	1	3% Chrysotile
8	Residual Floor Tile Mastic	IWWTP-A-24	Significantly Damaged	NF		Restroom foyer near door	1	4% Chrysotile
9	Lab Benchtops	IWWTP-A-25	Good	NF	72 Ft ²	Lab SE corner	1	15% Chrysotile
9	Lab Benchtops	IWWTP-A-26	Good	NF		Lab near sink	1	15% Chrysotile

HM#	Material Description	Sample ID	Condition	Friability	Quantity	Location	Sample Layers	Results
9	Lab Benchtops	IWWTP-A-27	Good	NF	72 Ft ²	Lab middle of bench	1	15% Chrysotile
10	1" Blue Ceramic Tile/Grout	IWWTP-A-28	Good	NF	N/A	Restroom near door	2	None Detected (Tile)
								None Detected (Grout)
10	1" Blue Ceramic Tile/Grout	IWWTP-A-29	Good	NF	N/A	Restroom in shower	2	None Detected (Tile)
								None Detected (Grout)
10	1" Blue Ceramic Tile/Grout	IWWTP-A-30	Good	NF	N/A	Restroom north corner	2	None Detected (Tile)
								None Detected (Grout)
11	6" Blue Ceramic Tile/Grout	IWWTP-A-31	Good	NF	N/A	Restroom west wall	2	None Detected (Tile)
								None Detected (Grout)

HM#	Material Description	Sample ID	Condition	Friability	Quantity	Location	Sample Layers	Results
11	6" Blue Ceramic Tile/Grout	IWWTP-A-32	Good	NF	N/A	Restroom near sink	2	None Detected (Tile)
								None Detected (Grout)
11	6" Blue Ceramic Tile/Grout	IWWTP-A-33	Good	NF	N/A	Restroom next to toilet	2	None Detected (Tile)
								None Detected (Grout)
12	Mortar	IWWTP-A-34	Good	NF	2,004 Ft ²	Lab SE Wall	1	2% Chrysotile
12	Mortar	IWWTP-A-35	Good	NF		Janitor closet S wall	1	2% Chrysotile
12	Mortar	IWWTP-A-36	Good	NF		Exterior east wall by door	1	2% Chrysotile
13	White Duct Mastic	IWWTP-A-37	Good	NF	N/A	Breakrom above sink	1	None Detected
13	White Duct Mastic	IWWTP-A-38	Good	NF	N/A	Breakroom near door to storage room	1	None Detected
13	White Duct Mastic	IWWTP-A-39	Good	NF	N/A	Breakroom near east wall	1	None Detected

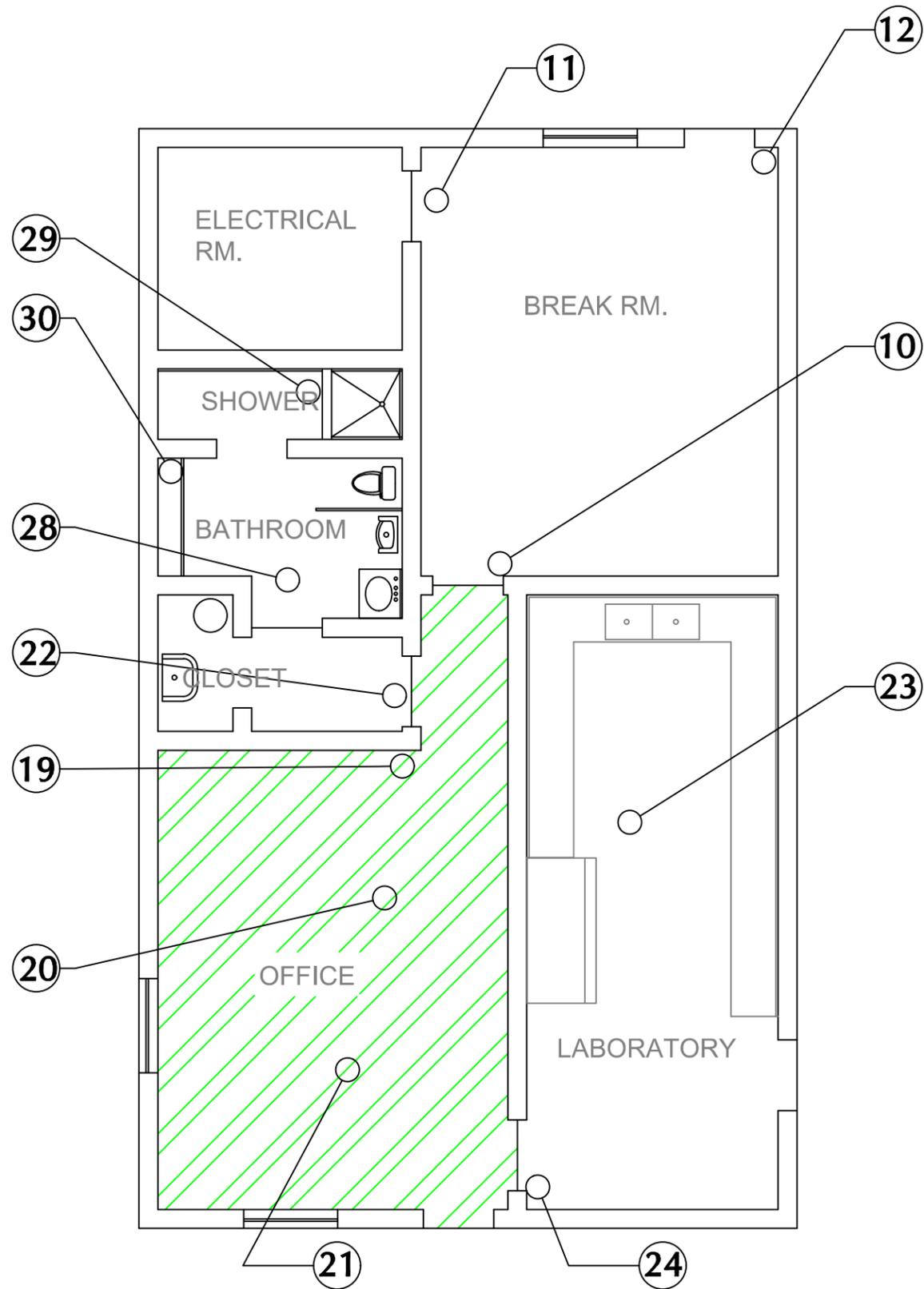
HM#	Material Description	Sample ID	Condition	Friability	Quantity	Location	Sample Layers	Results
14	Exterior Wall Sealant	IWWTP-A-40	Good	NF	N/A	West electrical box on South wall	1	None Detected
15	Plaster Wall	IWWTP-A-41	Good	NF	N/A	Lab north wall	1	None Detected
15	Plaster Wall	IWWTP-A-42	Good	NF	N/A	Office east wall	1	None Detected
15	Plaster Wall	IWWTP-A-43	Good	NF	N/A	Office south wall	1	None Detected
16	Roofing Material	IWWTP-A-44	Good	NF	N/A	East roof	1	None Detected
17	Concrete	IWWTP-A-47	Good	NF	N/A	Clarifier #1	1	None Detected
17	Concrete	IWWTP-A-48	Good	NF	N/A	Clarifier #2	1	None Detected

Figures



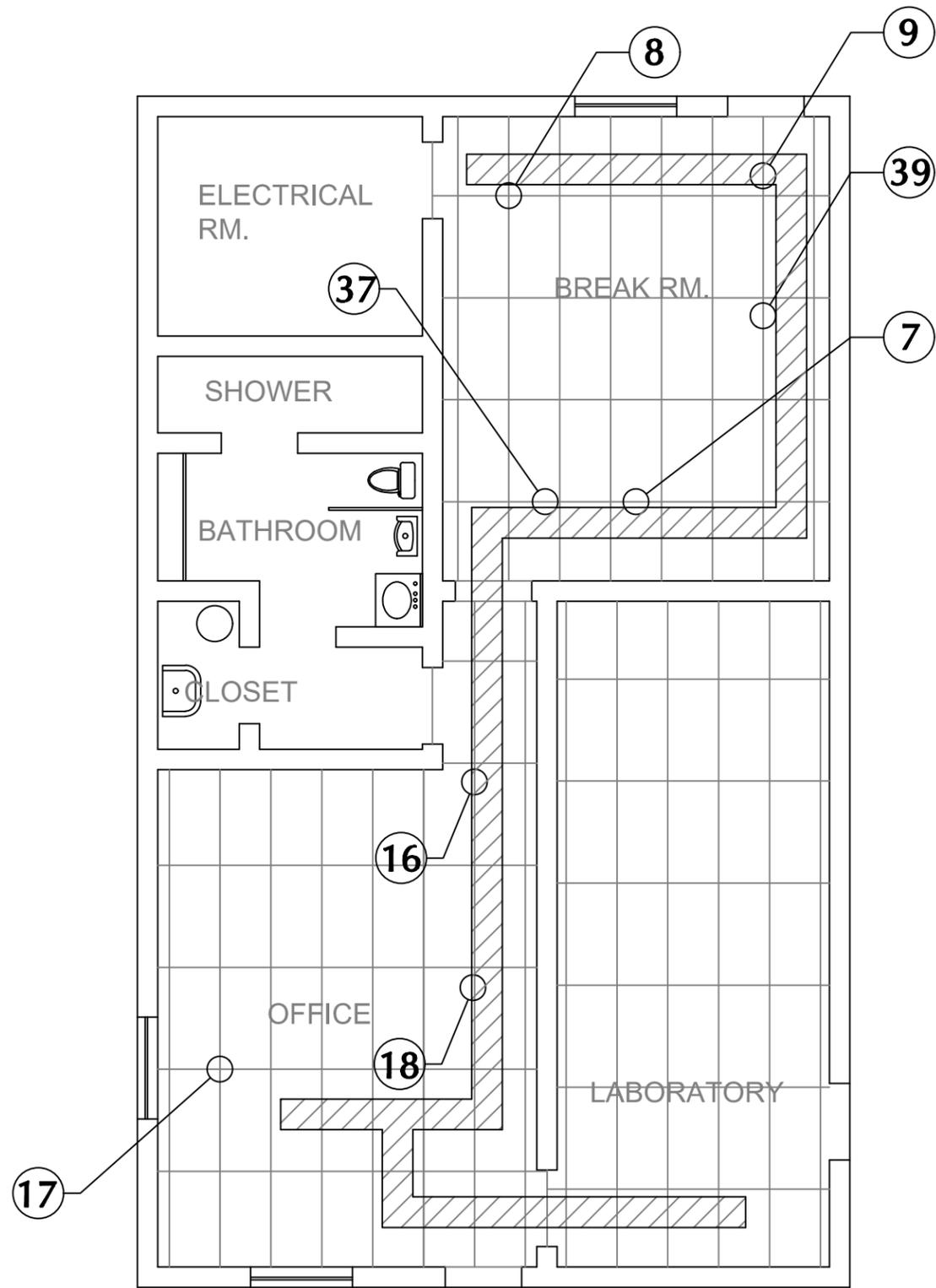
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	DRAWN BY: XXX
	SURVEYED BY: XXX
	JOB. No.: XXX
	SHEET 2 OF 6
A-2	



FLOORING

IWWTP-ASBESTOS	
FLOORING	SCALE: NOT TO SCALE
NICKLAUS ENGINEERING, INC. 1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.nelaw.com	DATE: OCT, 2025
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	DRAWN BY: XXX
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	JOB. No.: XXX
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A-3	



CEILING

IWWTP-ASBESTOS

CEILING

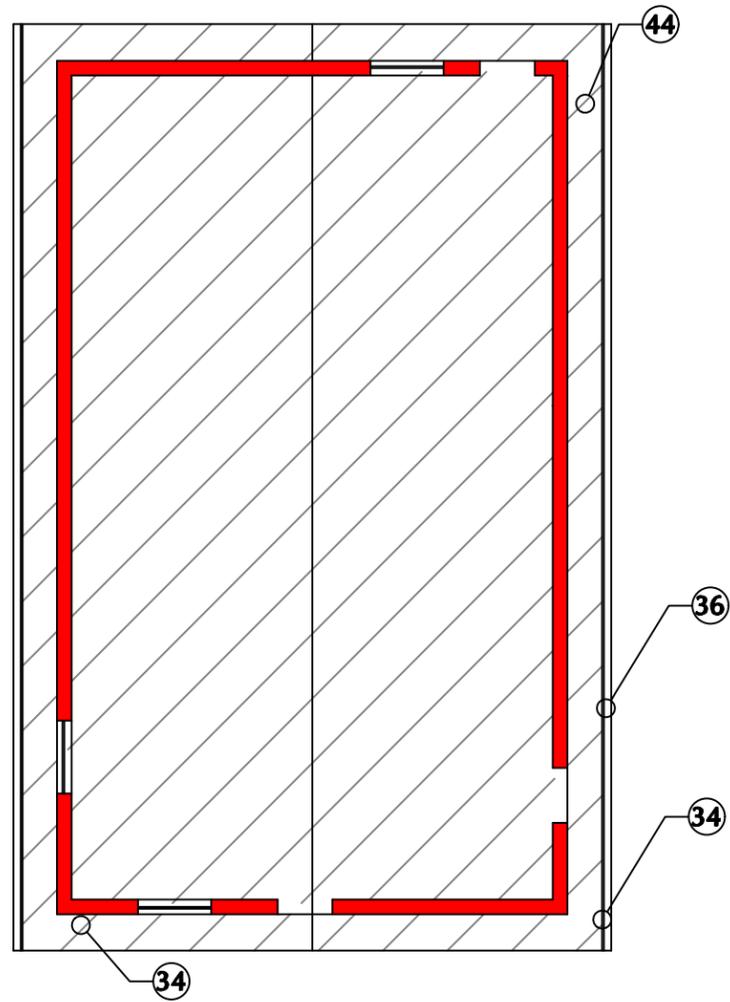
NICKLAUS
ENGINEERING, INC.

1851 West 24th Street Yuma, Arizona 85364
Phone: (928) 344-8374
www.nelaw.com

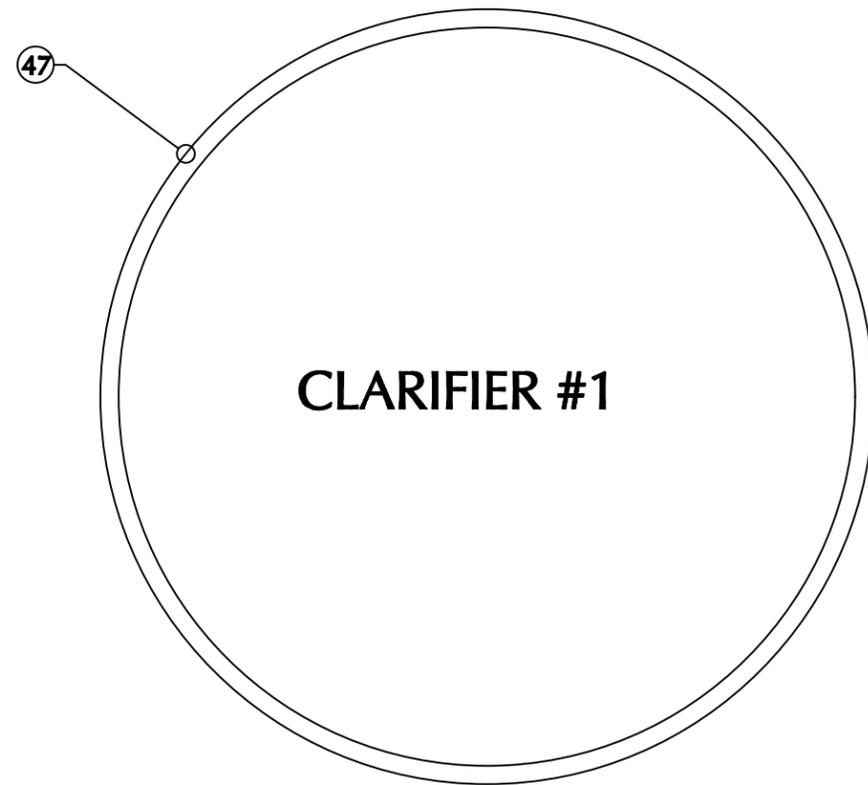
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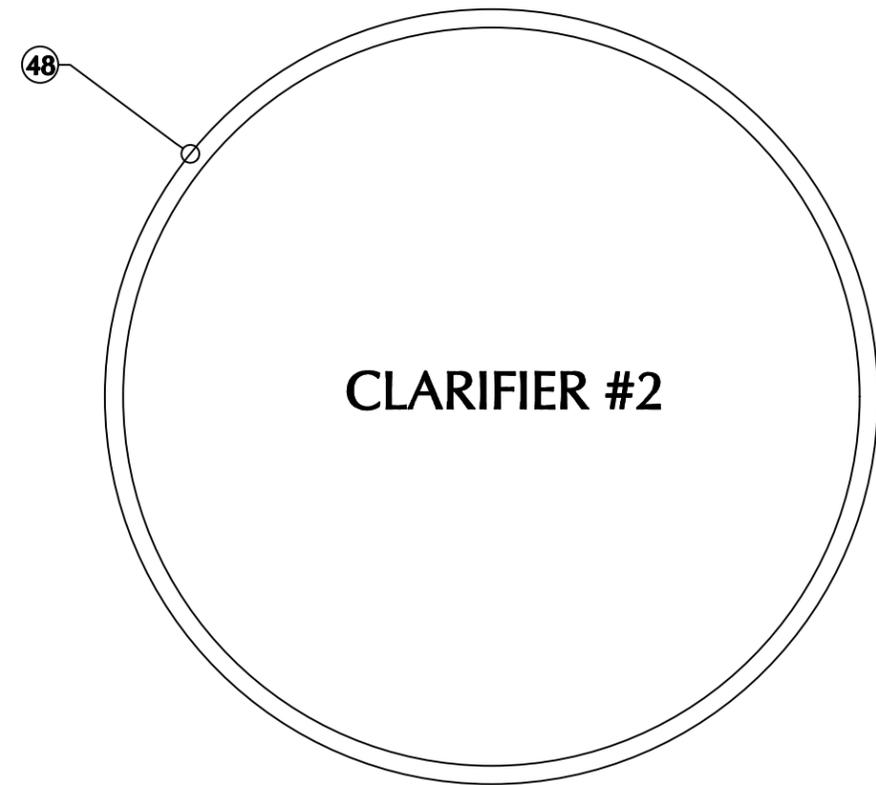
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ROOF & EXTERIOR



CLARIFIER #1



CLARIFIER #2



IWWTP-ASBESTOS

ROOF-EXTERIOR

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DATE: OCT, 2025
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DRAWN BY: XXX
SURVEYED BY: XXX
JOB. No.: XXX
SHEET 5 OF 6

A-5

LEGEND: ASBESTOS

HM1: DRYWALL/JOINT COMPOUND

HM2: BLACK COVE BASE/MASTIC

HM3: 2'x4' CEILING PANEL WITH FISSURES

HM4: 12" BEIGE FLOOR TILE/MASTIC

—  HM5: BLACK SINK UNDERCOAT (WALL PLAN)

HM6: 2'x4' CEILING PANEL WITH GOUGES (CEILING PLAN)

—  HM7: GRAY EPOXY FLOOR COAT (FLOOR PLAN)

—  HM8: RESIDUAL FLOOR TILE MASTIC (FLOOR PLAN)

—  HM9: LAB BENCH TOPS (WALL PLAN)

HM10: 1" BLUE CERAMIC TILE/GROUT

HM11: 6" BLUE CERAMIC TILE/GROUT

—  HM12: MORTAR (EXTERIOR PLAN)

HM13: WHITE DUCT MASTIC

HM14: EXTERIOR WALL SEALANT

HM15: PLASTER WALL

HM16: ROOFING MATERIAL

HM17: CONCRETE

IWWTP-ASBESTOS

LEGEND-ASBESTOS

NICKLAUS
ENGINEERING, INC.

1851 West 24th Street Yuma, Arizona 85364
Phone: (928) 344-8374
www.neiaw.com

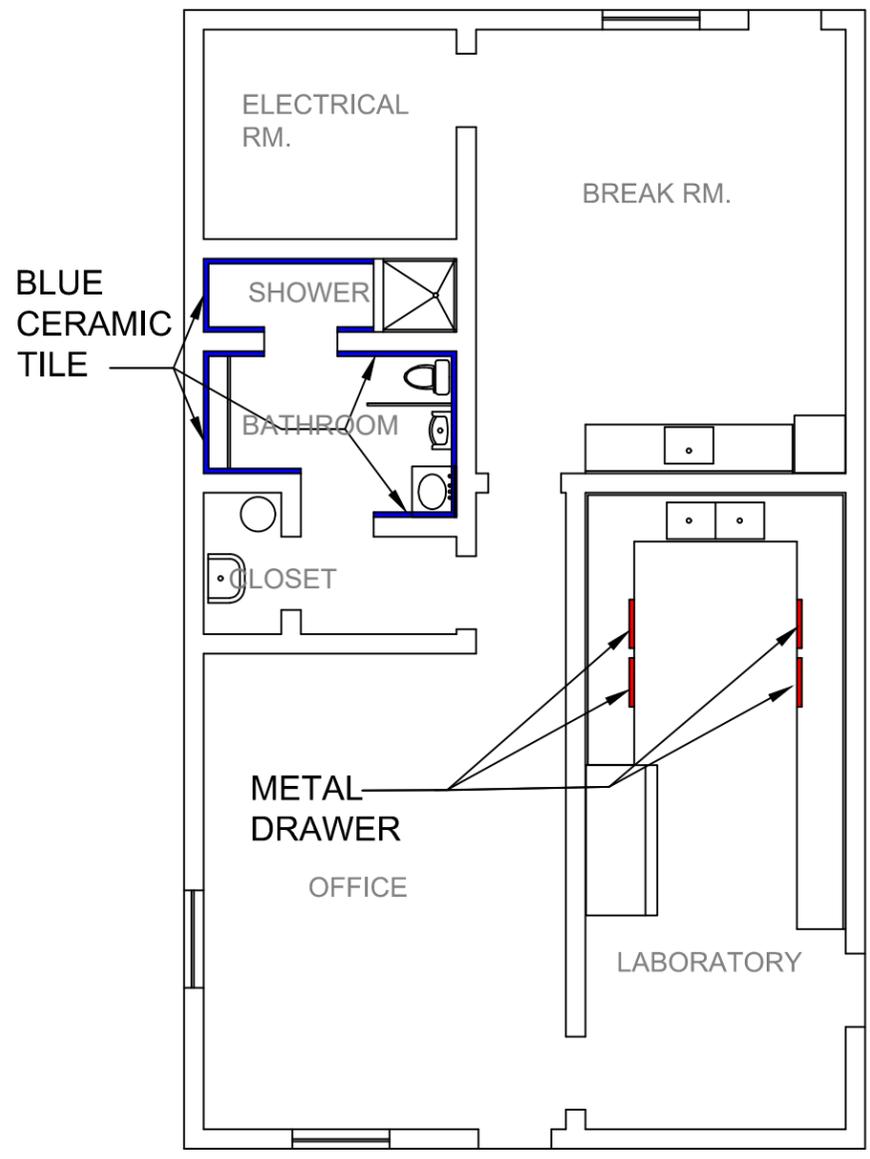
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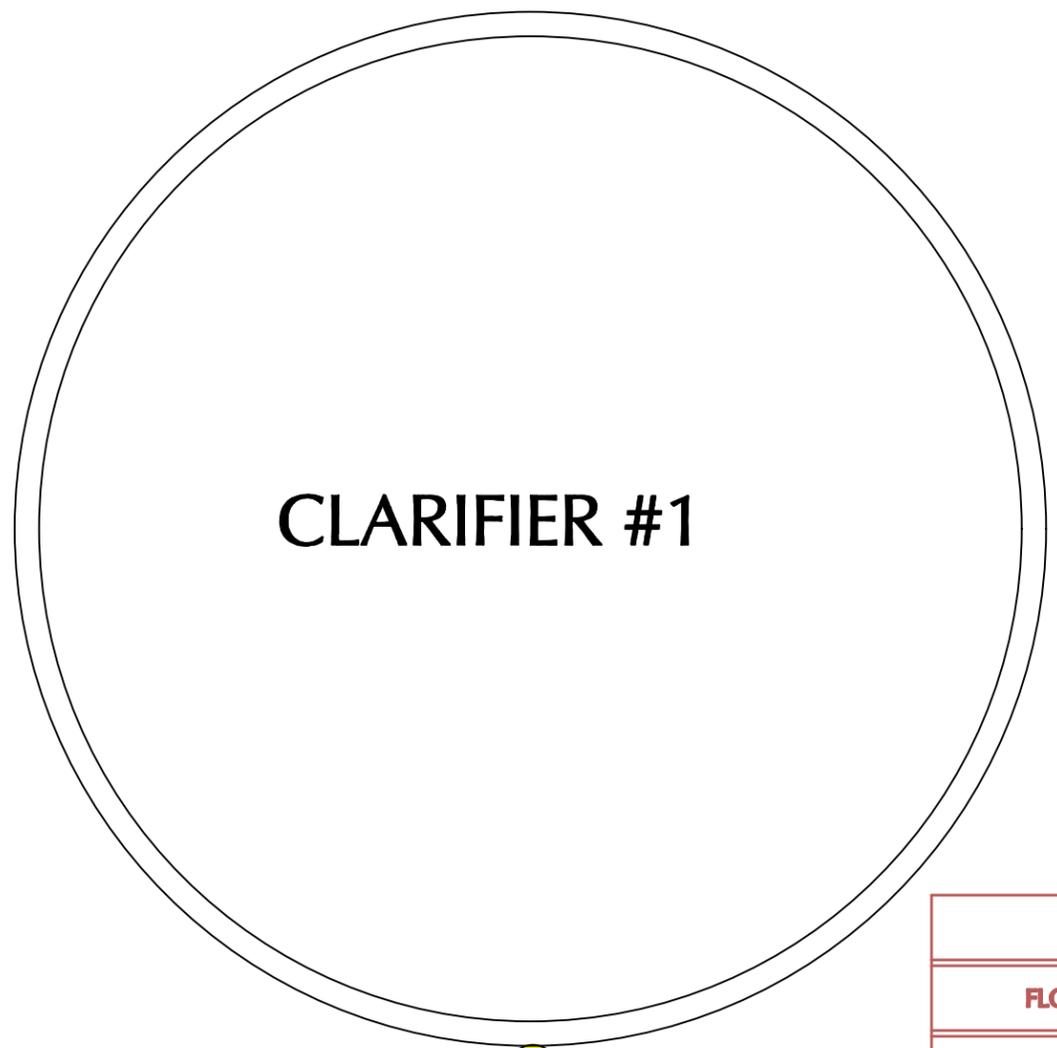
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LEGEND: LEAD BASE PAINT

-  LBP: METAL DRAWERS (RED & YELLOW)
-  LBP: BLUE CERAMIC TILE
-  LBS: YELLOW STAND PIPE



FLOOR PLAN



CLARIFIER #1

YELLOW STAND PIPE

IWWTP-LBP	
FLOOR-EXTERIOR	
NICKLAUS ENGINEERING, INC.	
1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com	
<small>SCALE: NOT TO SCALE DATE: OCT, 2025 DES. BY: XXX DRAWN BY: XXX SURVEYED BY: XXX JOB. No.: XXX SHEET 1 OF 6</small>	
A-1	

Appendix A
Asbestos Laboratory Report

Appendix B
XRF Log

Lead Based Paint Inspection						
XRF Inspection Log						
Site Name:	Imperial Wastewater Treatment Plant					
Inspector:	Scott Brown			Date:	9/10/2025	
Room	Side	Component	Condition	Color	Substrate	XRF Result
N/A	N/A	Calibration	N/A	N/A	N/A	1.0
N/A	N/A	Calibration	N/A	N/A	N/A	1.0
N/A	N/A	Calibration	N/A	N/A	N/A	1.0
Lab	A	Wall	Intact	White	Plaster	0.4
Lab	B	Wall	Intact	White	Plaster	0.4
Lab	C	Wall	Intact	White	Concrete	0.1
Lab	D	Wall	Intact	White	Plaster	0.3
Lab	A	Drawer	Intact	Red	Metal	1.0
Lab	A	Drawer	Intact	Blue	Metal	0.1
Lab	B	Drawer	Intact	Red	Metal	0.9
Lab	B	Drawer	Intact	White	Metal	0.2
Lab	B	Drawer	Intact	Green	Metal	0.1
Lab	B	Drawer	Intact	Blue	Metal	0.1
Lab	D	Drawer	Intact	Red	Metal	1.1
Lab	D	Drawer	Intact	Yellow	Metal	0.9
Lab	D	Drawer	Intact	Blue	Metal	0.1
Lab	D	Drawer	Intact	Green	Metal	0.0
Lab	D	Door	Intact	Brown	Metal	0.0
Lab	D	Door Frame	Intact	Brown	Metal	0.6
Lab	C	Electrical Panel	Intact	White	Metal	0.2
Lab	C	Electrical Panel	Intact	Green	Metal	0.1
Lab	C	Conduit	Intact	White	Metal	0.5
Office	A	Wall	Intact	White	Plaster	0.4
Office	A	Wall	Intact	White	Concrete	0.4
Office	B	Wall	Intact	White	Plaster	0.3
Office	C	Wall	Intact	White	Plaster	0.4
Office	D	Wall	Intact	White	Plaster	0.4
Office	D	Door	Intact	Brown	Metal	0.1
Office	D	Door Frame	Intact	Brown	Metal	0.4
Office	N/A	Ceiling	Intact	White	Drywall	0.2
Foyer	A	Wall	Intact	White	Plaster	0.3
Foyer	B	Wall	Intact	White	Plaster	0.2
Foyer	C	Wall	Intact	White	Plaster	0.1
Foyer	D	Wall	Intact	White	Plaster	0.2
Foyer	D	Door	Intact	Brown	Metal	0.1

Room	Side	Component	Condition	Color	Substrate	XRF Result
Foyer	D	Door Frame	Intact	Brown	Metal	0.5
Janitor	A	Wall	Intact	White	Concrete	0.0
Janitor	B	Wall	Intact	White	Concrete	0.1
Janitor	C	Wall	Intact	White	Concrete	0.1
Janitor	D	Wall	Intact	White	Concrete	0.2
Janitor	N/A	Ceiling	Intact	White	Wood	0.1
Janitor	A	Shelve	Intact	White	Wood	0.1
Janitor	D	Shelve	Intact	White	Wood	0.1
N/A	N/A	Calibration	N/A	N/A	N/A	1.1
N/A	N/A	Calibration	N/A	N/A	N/A	1.1
N/A	N/A	Calibration	N/A	N/A	N/A	1.1
Restroom	A	Wall	Intact	White	Plaster	0.4
Restroom	A	Wall	Intact	Blue	Ceramic	19.8
Restroom	B	Wall	Intact	Blue	Ceramic	20.0
Restroom	B	Wall	Intact	White	Plaster	0.4
Restroom	C	Wall	Intact	White	Plaster	0.3
Restroom	D	Wall	Intact	White	Plaster	0.2
Restroom	C	Wall	Intact	Blue	Ceramic	20.2
Restroom	D	Shelve	Intact	White	Wood	0.1
Restroom	N/A	Ceiling	Intact	White	Drywall	0.0
Restroom	B	Urinal	Intact	White	Porcelain	0.2
Restroom	B	Toilet	Intact	White	Porcelain	0.4
Restroom	B	Sink	Intact	White	Porcelain	0.3
Restroom	N/A	Floor	Intact	Blue	Ceramic	0.2
Restroom	A	6" Wall Tile	Intact	Blue	Ceramic	15.9
Restroom	B	6" Wall Tile	Intact	Blue	Ceramic	16.5
Restroom	C	6" Wall Tile	Intact	Blue	Ceramic	16.3
Restroom	D	6" Wall Tile	Intact	Blue	Ceramic	21.8
Office	N/A	Floor	Damaged	Blue	Concrete	0.3
Breakroom	A	Wall	Intact	White	Drywall	0.2
Breakroom	B	Wall	Intact	White	Drywall	0.1
Breakroom	C	Wall	Intact	White	Drywall	0.1
Breakroom	D	Wall	Intact	White	Drywall	0.1
Breakroom	A	Door	Intact	Brown	Metal	0.1
Breakroom	A	Door Frame	Intact	Brown	Metal	0.4
Breakroom	C	Door Frame	Intact	Brown	Metal	0.0
Breakroom	C	Door Frame	Intact	Brown	Metal	0.5
Breakroom	C	Upper Cabinet	Intact	N/A	Wood	0.2
Breakroom	C	Lower Cabinet	Intact	N/A	Wood	0.1

Room	Side	Component	Condition	Color	Substrate	XRF Result
Breakroom	D	Cabinet	Intact	N/A	Wood	0.1
Breakroom	C	Counertop	Intact	N/A	Wood	0.0
Breakroom	C	Shelves	Intact	N/A	Wood	0.0
Electrical	A	Wall	Intact	White	Concrete	0.0
Electrical	B	Wall	Intact	White	Concrete	0.0
Electrical	C	Wall	Intact	White	Concrete	0.2
Electrical	D	Wall	Intact	White	Concrete	0.2
Electrical	N/A	Ceiling	Intact	White	Drywall	0.0
Electrical	D	Electrical Panel	Intact	Gray	Metal	0.1
Electrical	A	Electrical Panel	Intact	Gray	Metal	0.1
N/A	N/A	Calibration	N/A	N/A	N/A	1.1
N/A	N/A	Calibration	N/A	N/A	N/A	1.1
N/A	N/A	Calibration	N/A	N/A	N/A	1.0
Exterior	A	Wall	Intact	White	Concrete	0.0
Exterior	A	Foundation	Intact	White	Concrete	0.0
Exterior	A	Window Frame	Intact	White	Metal	0.2
Exterior	A	Door	Intact	White	Metal	0.1
Exterior	A	Door Frame	Intact	White	Metal	0.5
Exterior	B	Wall	Intact	White	Concrete	0.2
Exterior	B	Foundation	Intact	White	Concrete	0.1
Exterior	B	Downspout	Intact	White	Metal	0.2
Exterior	B	Electrical Box	Intact	White	Metal	0.1
Exterior	B	Conduit	Intact	White	Metal	0.2
Exterior	B	Hose Reel	Intact	White	Metal	0.3
Exterior	B	Door	Intact	White	Metal	0.0
Exterior	B	Door Frame	Intact	White	Metal	0.5
Exterior	B	Downspout	Intact	White	Metal	0.2
Exterior	C	Wall	Intact	White	Concrete	0.0
Exterior	C	Foundation	Intact	White	Concrete	0.2
Exterior	C	Door	Intact	White	Metal	0.1
Exterior	C	Door Frame	Intact	White	Metal	0.4
Exterior	C	Window Frame	Intact	White	Metal	0.1
Exterior	C	Electrical Box	Intact	White	Metal	0.0
Exterior	C	Conduit	Intact	White	Plastic	0.1
Exterior	D	Wall	Intact	White	Concrete	0.3
Exterior	D	Foundation	Intact	White	Concrete	0.2
Exterior	D	Downspout	Intact	White	Metal	0.2
Exterior	D	Window Frame	Intact	White	Metal	0.1
Exterior	D	Electrical Box	Intact	White	Metal	0.1

Room	Side	Component	Condition	Color	Substrate	XRF Result
Exterior	D	Downspout	Intact	White	Metal	0.1
Exterior	A	Eave	Significant Damage	Blue	Wood	0.1
Exterior	A	Crossbeam	Significant Damage	Blue	Wood	0.0
Exterior	A	Fascia	Significant Damage	Blue	Wood	0.0
Exterior	A	Fascia	Significant Damage	White	Wood	0.0
Exterior	B	Eave	Significant Damage	Blue	Wood	0.1
Exterior	B	Crossbeam	Significant Damage	Blue	Wood	0.1
Exterior	B	Fascia	Significant Damage	Blue	Wood	0.2
Exterior	B	Gutter	Intact	White	Metal	0.1
Exterior	B	Attic Vent	Intact	White	Metal	0.0
Exterior	C	Eave	Intact	Blue	Wood	0.1
Exterior	C	Crossbeam	Intact	Blue	Wood	0.1
Exterior	C	Fascia	Intact	Blue	Wood	0.1
Exterior	C	Fascia	Intact	White	Wood	0.0
Exterior	D	Eave	Intact	Blue	Wood	0.1
Exterior	D	Crossbeam	Intact	Blue	Wood	0.1
Exterior	D	Fascia	Intact	Blue	Wood	0.1
Exterior	D	Gutter	Intact	White	Metal	0.1
Exterior	C	Backflow Pipes	Intact	Blue	Metal	0.1
Clarifier #1	A	Clarifier	Intact	White	Concrete	0.3
Clarifier #1	D	Hose Reel	Intact	Red	Metal	0.3
Clarifier #1	D	Stand Pipe	Intact	Yellow	Metal	8.6
Clarifier #1	A	Stairs	Intact	Gray	Metal	0.1
Clarifier #1	A	Catwalk	Intact	Gray	Metal	0.1
Clarifier #1	C	Hose Reel	Intact	Red	Metal	0.2
Clarifier #1	C	Hose Bib	Intact	Red	Metal	0.1
Clarifier #2	A	Clarifier	Intact	White	Concrete	0.0
Clarifier #2	C	Stand Pipe	Intact	Red	Metal	0.0

Appendix C

Survey Photographs

	
<p>HM-1: Drywall/Joint Compound</p>	<p>HM-2: Black Covebase Mastic</p>
	
<p>HM-3: 2'x4' Ceiling Panel with Fissures</p>	<p>HM-4: 12" Beige Floor Tile/Mastic</p>
	
<p>HM-5: Black Sink Undercoat (ACM)</p>	<p>HM-6: 2'x4' Ceiling Panel with Gouges</p>



HM-7: Gray Epoxy Floor Coat (ACM)



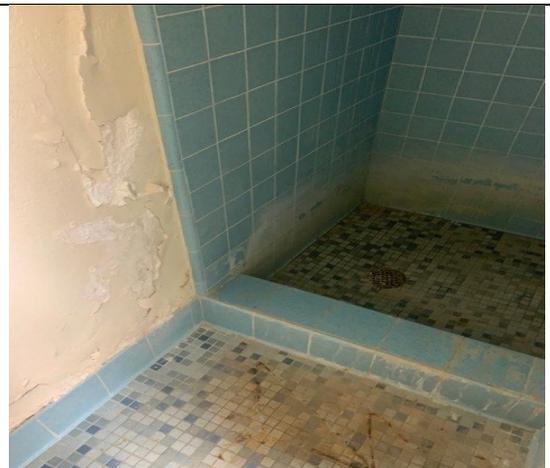
HM-8: Residual Floor Tile Mastic (ACM)



HM-9: Laboratory Benchtops (ACM)



HM-10: 1" Blue Ceramic Floor Tile/Grout



HM-11: 6" Blue Ceramic Tile/Grout



HM-12: Mortar (ACM)



HM-13: White Duct Mastic



HM-14: Exterior Wall Sealant



HM-15: Plaster Wall



HM-16: Roofing Material



HM-17: Concrete



Red Metal Drawer (LBP)



Yellow Metal Drawer (LBP)



Yellow Stand Pipe (LBP)



4" and 6" Ceramic Tile (LCM)

**9. IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT (ICAPCD)
CONSTRUCTION/DEMOLITION NOTIFICATION FORM**

An Imperial County Air Pollution Control District Construction/Demolition Notification Form is to be completed and forwarded to ICAPCD prior to the commencement of physical demolition work at the City of Imperial Wastewater Treatment Facility. *The Construction Manager will assist the Contractor in preparing and submitting the form to the ICAPCD.* The contractor shall be responsible for paying any fee associated with the Construction/Demolition Notification Form. The contractor shall be reimbursed for any fee associated with the Construction/Demolition Notification Form with a positive change order. A copy of the ICAPCD Construction/Demolition Notification Form follows this Special Conditions Section.

Imperial County Air Pollution Control District Construction/Demo Notification Form

PROJECT INFORMATION

Project: _____	Assessor's Parcel _____
Project Address: _____	Number(s) _____
City: _____	Building Permit # _____
Expected Construction Start Date: _____	Total project site area: _____ Acres/Sq Feet
End Date: _____	Total disturbed surface area: _____ Acres/Sq Feet
The project is:	
Residential	Name of Subdivision _____
Non-residential (commercial, industrial, institutional, public, etc.) _____	

A Dust Control Plan is required on any site of ten acres or more of disturbed surface area for residential developments, or five acres or more for non-residential developments which shall be made available to the APCD upon request. The Construction Notification Form may not be used to circumvent any Dust Control Plan requirement.

CONTACTS

Owner/Developer: _____		
Address: _____		
City / State / Zip: _____		
Phone: _____	Fax: _____	Cell: _____
Contractor: _____		Indicate General or Sub _____
Address: _____		
City / State / Zip: _____		
Contact Person: _____		
Phone: _____	Fax: _____	Cell: _____
Who is responsible for mitigation of construction emissions? _____		

DESCRIBE THE NATURE OF THE WORK (MAP REQUIRED)

--	--

LIST THE TYPE & QUANTITY OF EQUIPMENT TO BE USED

**Mailing Address: 150 South 9th Street
El Centro, CA 92243
Office: (442) 265-1800**

EMAIL NOTICES TO ALL: monicasoucier@co.imperial.ca.us
curtisblondell@co.imperial.ca.us
ismaelgarcia@co.imperial.ca.us

10. UNITED STATES ENVIRONMENTAL PROTECTION AGENCY NOTIFICATION OF DEMOLITION AND RENOVATION FORM

The United States Environmental Protection Agency (EPA) requires owners and operators conducting regulated demolition and renovation activities to provide written notification with the submittal of a United States Environmental Protection Agency Notification of Demolition and Renovation Form. The instructions and e-mail addresses to distribute the completed United States Environmental Protection Agency Notification of Demolition and Renovation Form including the Environmental Protection Agency, California Air Resources Board (CARB) and Imperial County Air Pollution Control District are listed in the compliance section of the Imperial County Air Pollution Control District website. *The Construction Manager will assist the Contractor in preparing and submitting the form to the prior noted agencies.* The contractor shall be responsible for paying any fee associated with the United States Environmental Protection Agency Notification of Demolition and Renovation Form. The contractor shall be reimbursed for any fee associated with the United States Environmental Protection Agency Notification of Demolition and Renovation Form with a positive change order. A copy of the United States Environmental Protection Agency Notification of Demolition and Renovation Form follows this Special Conditions Section.

U.S. EPA NOTIFICATION OF DEMOLITION AND RENOVATION

Operator Project #	Postmark	Date Received	Notification #				
I. Type of Notification (check one): <input type="checkbox"/> Original <input type="checkbox"/> Revised <input type="checkbox"/> Canceled							
II. Facility Description Building Name: _____ Address: _____ City: _____ State: _____ Zip Code: _____ County: _____ Site Location : _____ Building Size (square feet): _____ # of Floors: _____ Age in Years: _____ Present Use: _____ Prior Use: _____							
III. Type of Operation (check one): <input type="checkbox"/> Demo <input type="checkbox"/> Ordered Demo <input type="checkbox"/> Renovation <input type="checkbox"/> Emergency Renovation <input type="checkbox"/> Fire Training							
IV. Is Asbestos Present? (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No							
V. Facility Information Owner Name: _____ Address: _____ City: _____ State: _____ Zip Code: _____ Contact: _____ Telephone: (____) _____ Fax: _____ Removal Contractor Name: _____ Address: _____ City: _____ State: _____ Zip Code: _____ Contact: _____ Telephone: (____) _____ Fax: _____ Other Operator (demolition/general): _____ Address: _____ City: _____ State: _____ Zip Code: _____ Contact: _____ Telephone: (____) _____ Fax: _____							
VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II non-friable ACM:							
VII. Approximate Amount of Asbestos Materials:							
	RACM to be Removed	Non-friable Asbestos Material to be Removed		Non-friable Asbestos Material NOT to be Removed			
		Category I	Category II	Category I	Category II		
Pipes (linear feet)							
Surface Area (square feet)							
Facility Components (cubic feet)							
VIII. Scheduled Dates Demolition or Renovation:		Start:	Complete:				
IX. Dates for Asbestos Removal (MM/DD/YY)		Start:	Complete:				
Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:							

11. CITY OF IMPERIAL BUILDING PERMIT APPLICATION FORM

The contractor shall prepare and submit a Building Permit Application Form to the City of Imperial for the new lighting improvements at the Operations Building and Sludge Pump Station Building and for the construction of a new Modular Building. The contractor shall not commence work at the project site until the Building Permit is issued to the Contractor by the City of Imperial. The contractor shall be responsible for paying any fee associated with the Building Permit. The contractor shall be reimbursed for any fee associated with the Building Permit Application Form with a positive change order. A copy of the City of Imperial Building Permit Application Form follows this Special Conditions Section.



BUILDING PERMIT APPLICATION FORM

CITY OF IMPERIAL

Planning and Development
Building and Safety Division

420 South Imperial Avenue

Imperial, CA 92251

Phone (760)355-1152 | Fax (760)355-4718

Permit Number (Office Use): _____

Applicant/Owner Information

Applicant: _____
Contact Person: _____
Mailing Address: _____
Phone: _____
Fax: _____
E-mail: _____

Owner Name(s): _____
Mailing Address: _____
Phone: _____
Fax: _____
E-mail: _____

Contractor Information

CA Licensed Class: _____
CA License Number: _____
Business Name: _____
Business License Number: _____

I hereby affirm that I am licensed under provisions of Chapter 9 of Division 3 of the state of California Business and Professions Code, commencing with Sec. 7000. and my licensed is full force and effect.

Signature _____ Date: _____

Owner-Builder Declaration

I, as owner of the property, building or improving structure thereon, or appurtenances thereto, will do the work myself or through my own employees with wages as their sole compensation. None of the structures, with or without the appurtenances thereto, are intended or offered for sale (Sec. 7044(a), Business and Professions Code). **NOTICE TO APPLICANT:** In all actions brought in the Contractor's State License Law, proof of sale or offering for sale of any structure by the owner-builder within one year after completion of same constitutes a rebuttable presumption affecting the burden of proof that such structure was undertaken for purpose of sale.

Signature _____ Date _____

Workers' Compensation Declaration

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agreed that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Signature _____ Date _____

Project Information

Project Location (address): _____

Assessor's Parcel Number(s): _____

Existing Zoning: _____

Parcel/Lot Size: _____

Valuation: _____

Building Sq Ft: _____

Detailed Project Description (attach additional sheets if necessary):

Use/Cost of Consultants

The Community Development department, at the discretion of the Community Development Director, may use or employ outside independent consultants to assist in processing applications, conduct special studies or provide expertise not available within the department. The cost for such consultants shall be a charge against the project and is in addition to the City's fees. As consultant fees are paid, the applicant may be required to maintain the deposit at a level determined by the Community Development Director. Failure to maintain the required deposit shall result in a cessation in the processing of the subject application. The City shall return that portion of the deposit, if any, remaining at project completion. In accordance with City policy to ensure cost recovery, Staff time spent on these projects will be tracked, and developers will be billed based on actual labor, material, equipment and the indirect cost rate. The deposit amount will be maintained in a City Trust Fund account and used to pay for staff and consultant services on a time-and -materials basis. If the consultant's services amount exceeds the deposit, the applicant will be billed for the difference. The deposit must be maintained in the full amount as directed by the Community Development Director.

Applicant is responsible for any fees associated with the City of Imperials' City Clerk office and any department required for processing the said application from the Imperial County.

Fire Department Fees are paid and processed separately from the Community Development Department.

Executed at _____ California on _____, 20 _____

Applicant

Property Owner

(If different from Applicant)

By: Signature: _____

By: Signature: _____

Printed Name _____

Printed Name _____

Title: _____

Title: _____

Indemnification Agreement

Applicant and Owner agree, as part of and in connection with each and any of the application(s), to defend, indemnify, and hold harmless the City of Imperial ("City") and its officers, contractors, consultants, attorneys, employees and agents from any and all claim(s), action(s), or proceeding(s) (collectively referred to as "proceeding") brought against City or its officers, contractors, consultants, attorneys, employees, or agents to challenge, attack, set aside, void, or annul. Any approvals issued in connection with any of the above described application(s) by City. Applicant's defense and indemnification of City set forth herein shall remain in full force and effect throughout all stages of litigation including any and all appeals of any lower court judgments rendered in the proceeding. After review and consideration of all of the foregoing terms and conditions, Applicant, by its signature below, hereby agrees to be bound by and to fully and timely comply with all of the foregoing terms and conditions.

Executed at _____ California on _____, 20 _____

Applicant

Property Owner

(If different from Applicant)

By: Signature: _____

By: Signature: _____

Printed Name _____

Printed Name _____

Title: _____

Title: _____

Signatures

The undersigned hereby declare and certify that they are all the owners of the property described in this application and that the information stated above and on forms, plans and other materials submitted herewith in support of the application is true and correct to the best of our knowledge.

Applicant

Property Owner

(If different from Applicant)

By: Signature: _____

By: Signature: _____

Printed Name _____

Printed Name _____

Title: _____

Title: _____

12. CITY OF IMPERIAL ASBESTOS DEMOLITION DECLARATION

The contractor shall prepare and submit an Asbestos Demolition Declaration to the City of Imperial prior to commencing work at the project site. The contractor shall be responsible for paying any fee associated with the Asbestos Demolition Declaration. The contractor shall be reimbursed for any fee associated with the Asbestos Demolition Declaration with a positive change order. A copy of the City of Imperial Asbestos Demolition Declaration Form follows this Special Conditions Section.



BUILDING AND SAFETY DIVISION
420 SOUTH IMPERIAL AVE., IMPERIAL, CA 92251
PHONE (760) 355-1152
Fax (760) 355-4718
BuildingSafetyDivision@cityofimperial.org

ASBESTOS DEMOLITION DECLARATION

Pursuant to Section 19827.5 of the State H&S code and Part 61, Title 40 CFR, every applicant for a demolition permit must complete this declaration relevant to Hazardous Air Pollutants upon application for demolition or renovation permit.

Applicant: _____ Permit #: _____

Property Owner: _____ APN: _____

Check one: Owner Contractor C.S.L. # _____

For the Demolition or Renovation of single family residences or apartment buildings with four or fewer units or accessory structures to residential buildings. This does not include structures utilized for fire training, former residences used for commercial purposes, or being demolished for a private commercial or public project.

I hereby declare that a written Asbestos Demolition/Renovation Notification to the United States Environmental Protection Agency is not applicable to this demolition project. I hereby authorize representatives from this City to enter upon the property for inspection purposes. I declare under penalty of perjury that the foregoing is true and correct.

Signature of Property owner or Licensed Contractor

Date

For the Demolition/Renovation of ALL OTHER STRUCTURES.

_____ I have attached a copy of the Asbestos Demolition/Renovation Notification that was sent to U.S. EPA and California ARB.

I have read this declaration and state that the information is correct. I agree to comply with all City ordinances, State and Federal laws relating to demolition or renovation and hereby authorize representatives of this City to enter upon the property for inspection purposes. I declare under penalty of perjury that the foregoing is true and correct.

Signature of Property Owner or Licensed Contractor

Date:

13. CITY OF IMPERIAL DEMOLITION PERMIT

The Contractor shall obtain a City of Imperial Demolition Permit from the City of Imperial prior to the start of construction activities. The Construction Manager shall assist the contractor in preparing the Demolition Permit Application. The contractor shall be responsible for paying any fee associated with the Demolition Permit Application. The contractor shall be reimbursed for any fee associated with obtaining the Demolition Permit.

14. TABLE A – WASTE MANAGEMENT REPORT IDENTIFICATION OF CONSTRUCTION AND DEMOLITION DEBRIS (WMRIC&D) CHART

During the preparation of the project design documents a Waste Management Report Identification of Construction and Demolition Debris (WMRIC&D) Chart was prepared. THE WMRIC&D Chart lists the known items comprising the different structures to undergo demolition. Separate WMRIC&D Charts were prepared for each structure to undergo demolition. The Table A WMRIC&D Charts are included on the following pages.

TABLE A
WASTE MANAGEMENT REPORT
IDENTIFICATION OF CONSTRUCTION AND DEMOLITION DEBRIS
OPERATIONS BUILDING

Project: City of Imperial - Wastewater Treatment Plant Demolition Project - THG #173.138				
Project Address: 701 East 14th Street, Imperial, CA 92251				
CITY OF IMPERIAL DEMOLITION PERMIT NUMBER:				
I. Operation Building.				
1	2	3	4	5
Item	Description	Estimated Weight	Inert Material	Not Inert Material
Masonry Walls	See Plan Sheet 3	2.5 Tons	X	
PCC Concrete including retaining wall and steps	See Plan Sheet 3	30 Tons	X	
Drywall in door open	See Plan Sheet 3	TBD		X
Wood Cabinets – Formica Countertops	See Plan Sheet 3. Break Room, Laboratory Room and Bathroom	TBD		X
Water Heater	See Plan Sheet 3	TBD		X
PVC Piping	See Plan Sheet 3	TBD		X
Eye Wash Station	See Plan Sheet 3	TBD		X
Sinks	See Plan Sheet 3	TBD		X
<p>NOTES:</p> <p>1. TO BE DETERMINED (TBD) – The contractor will not be required to determine the weight of each demolition item on the Table “A” Waste Management Report prior to starting demolition activities, however; the contractor will be required to determine the weight of each material load leaving the project site by weighing the material at vendors scale or a California Certified Public Scale. See Technical Condition Sections 5, 6 and 7.</p> <p>2. The weight of some items illustrated on Table “A” were calculated from as-built plans and measurements in the field during the project design phase. The weight calculations of those items is included in Table “D”. Unknown changes during the construction of the item which were not documented or illustrated on the as-built plans, additions to the item during other improvements which were not documented, or similar circumstances could add significantly to the actual weight of a demolition item. Given these unknowns, the weights illustrated on Table “A” are assumed to be within 40 percent of the actual weight of the demolition item removed from the project site. The contractor is responsible for completing his/her own volume and weight calculations of all items during the project bidding phase. The contractor shall be responsible for removing all of a particular item from the project site for recycling, reuse, salvage or disposal, regardless of the volume or weight of the item. No additional compensation shall be due to the contractor for removing the additional weight or volume of an item greater than what the contractor had anticipated prior to the removal of the item.</p>				

TABLE A
WASTE MANAGEMENT REPORT
IDENTIFICATION OF CONSTRUCTION AND DEMOLITION DEBRIS
OPERATIONS BUILDING

Project: City of Imperial - Wastewater Treatment Plant Demolition Project - THG #173.138				
Project Address: 701 East 14th Street, Imperial, CA 92251				
CITY OF IMPERIAL DEMOLITION PERMIT NUMBER:				
I. Operation Building.				
1	2	3	4	5
Item	Description	Estimated Weight	Inert Material	Not Inert Material
Ceiling Lights	See Plan Sheet 20	TBD		X
VCT Floor	See Plan Sheet 3. Break Room Floor	TBD		X
Refrigerator	See Plan Sheet 3	TBD		X
Oven	See Plan Sheet 3	TBD		X
Bathroom	Miscellaneous Items including mirrors, soap, dispensers, Toilet paper Holder, Paper Towel Dispensers.	TBD		X
Water Closet & Urinals	See Plan Sheet 3	TBD		X
Water Closet Partitions	See Plan Sheet 3	TBD		X
Aluminum and glass cabinets	See Plan Sheet 3	TBD		X
<p>NOTES:</p> <p>1. TO BE DETERMINED (TBD) – The contractor will not be required to determine the weight of each demolition item on the Table “A” Waste Management Report prior to starting demolition activities, however; the contractor will be required to determine the weight of each material load leaving the project site by weighing the material at vendors scale or a California Certified Public Scale. See Technical Condition Sections 5, 6 and 7.</p> <p>2. The weight of some items illustrated on Table “A” were calculated from as-built plans and measurements in the field during the project design phase. The weight calculations of those items is included in Table “D”. Unknown changes during the construction of the item which were not documented or illustrated on the as-built plans, additions to the item during other improvements which were not documented, or similar circumstances could add significantly to the actual weight of a demolition item. Given these unknowns, the weights illustrated on Table “A” are assumed to be within 40 percent of the actual weight of the demolition item removed from the project site. The contractor is responsible for completing his/her own volume and weight calculations of all items during the project bidding phase. The contractor shall be responsible for removing all of a particular item from the project site for recycling, reuse, salvage or disposal, regardless of the volume or weight of the item. No additional compensation shall be due to the contractor for removing the additional weight or volume of an item greater than what the contractor had anticipated prior to the removal of the item.</p>				

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Project: City of Imperial - Wastewater Treatment Plant Demolition Project - THG #173.138				
Project Address: 701 East 14th Street, Imperial, CA 92251				
CITY OF IMPERIAL DEMOLITION PERMIT NUMBER:				
I. Operation Building.				
1	2	3	4	5
Item	Description	Estimated Weight	Inert Material	Not Inert Material
Bathroom Tiles	See Plan Sheet 3	TBD		X
Aluminum and glass cabinets	See Plan Sheet 3	TBD		X
Bathroom Tiles	See Plan Sheet 3	TBD		X
Bathroom Partitions Walls	See Plan Sheet 3	TBD		X
Bathroom Doors	See Plan Sheet 3	TBD		X
Toilet	See Plan Sheet 3	TBD		X
All other Items in the Bathroom Area and Laboratory Room	See Plan Sheet 3 and 20	TBD		X
<p>NOTES:</p> <p>1. TO BE DETERMINED (TBD) – The contractor will not be required to determine the weight of each demolition item on the Table “A” Waste Management Report prior to starting demolition activities, however; the contractor will be required to determine the weight of each material load leaving the project site by weighing the material at vendors scale or a California Certified Public Scale. See Technical Condition Sections 5, 6 and 7.</p> <p>2. The weight of some items illustrated on Table “A” were calculated from as-built plans and measurements in the field during the project design phase. The weight calculations of those items is included in Table “D”. Unknown changes during the construction of the item which were not documented or illustrated on the as-built plans, additions to the item during other improvements which were not documented, or similar circumstances could add significantly to the actual weight of a demolition item. Given these unknowns, the weights illustrated on Table “A” are assumed to be within 40 percent of the actual weight of the demolition item removed from the project site. The contractor is responsible for completing his/her own volume and weight calculations of all items during the project bidding phase. The contractor shall be responsible for removing all of a particular item from the project site for recycling, reuse, salvage or disposal, regardless of the volume or weight of the item. No additional compensation shall be due to the contractor for removing the additional weight or volume of an item greater than what the contractor had anticipated prior to the removal of the item.</p>				

TABLE A
WASTE MANAGEMENT REPORT
IDENTIFICATION OF CONSTRUCTION AND DEMOLITION DEBRIS
CLARIFIER NO 1

Project: City of Imperial - Wastewater Treatment Plant Demolition Project - THG #173.138				
Project Address:701 East 14th Street, Imperial, CA 92251				
CITY OF IMPERIAL DEMOLITION PERMIT NUMBER:				
II. Clarifier Number 1.				
1	2	3	4	5
Item	Description	Estimated Weight	Inert Material	Not Inert Material
PCC Reinforced Concrete	A PCC quantity estimate for Clarifier No.1 completed by the Design Engineer during the project design phase and is included with Table D information. See plan sheet 4.	456 Tons	X	
Asphalt	An Asphalt quantity estimate for Clarifier No.1 was completed by the design engineer during the design phase and is included with Table D information. Quantity Estimate is approximate. See Plan Sheet 2 an 4.	10 Tons	X	
Steel Raker Arm	See plan sheets 4 and 13.	TBD		X
Steel Raker arm shaft	See plan sheets 4 and 13.	TBD		X
Steel Clarifier motor	See plan sheets 4 and 13.	TBD		X
Steel Gear reduction box	See plan sheets 4 and 13.	TBD		X
<p>NOTES:</p> <p>1. TO BE DETERMINED (TBD) – The contractor will not be required to determine the weight of each demolition item on the Table “A” Waste Management Report prior to starting demolition activities, however; the contractor will be required to determine the weight of each material load leaving the project site by weighing the material at vendors scale or a California Certified Public Scale. See Technical Condition Sections 5, 6 and 7.</p> <p>2. The weight of some items illustrated on Table “A” were calculated from as-built plans and measurements in the field during the project design phase. The weight calculations of those items is included in Table “D”. Unknown changes during the construction of the item which were not documented or illustrated on the as-built plans, additions to the item during other improvements which were not documented, or similar circumstances could add significantly to the actual weight of a demolition item. Given these unknowns, the weights illustrated on Table “A’ are assumed to be within 40 percent of the actual weight of the demolition item removed from the project site. The contractor is responsible for completing his/her own volume and weight calculations of all items during the project bidding phase. The contractor shall be responsible for removing all of a particular item from the project site for recycling, reuse, salvage or disposal, regardless of the volume or weight of the item. No additional compensation shall be due to the contractor for removing the additional weight or volume of an item greater than what the contractor had anticipated prior to the removal of the item.</p>				

TABLE A
WASTE MANAGEMENT REPORT
IDENTIFICATION OF CONSTRUCTION AND DEMOLITION DEBRIS
CLARIFIER NO 1

Project: City of Imperial - Wastewater Treatment Plant Demolition Project - THG #173.138				
Project Address:701 East 14th Street, Imperial, CA 92251				
CITY OF IMPERIAL DEMOLITION PERMIT NUMBER:				
II. Clarifier Number 1.				
1	2	3	4	5
Item	Description	Estimated Weight	Inert Material	Not Inert Material
Steel Skimmer arm	See plan sheets 4 and 13.	TBD		X
Steel bridge	See plan sheets 4,13 and 19.	TBD		X
Electrical EMT conduit and conductors for the clarifier motor and Clarifier Motor	See plan sheets 4,13 and 19.	TBD		X
Electrical disconnect switch near the electrical	See plan sheets 4,13 and 19.	TBD		X
Steel Electrical light pole and all other electrical related facilities.	See plan sheets 4,13 and 19.	TBD		X
<p>NOTES:</p> <p>1. TO BE DETERMINED (TBD) – The contractor will not be required to determine the weight of each demolition item on the Table “A” Waste Management Report prior to starting demolition activities, however; the contractor will be required to determine the weight of each material load leaving the project site by weighing the material at vendors scale or a California Certified Public Scale. See Technical Condition Sections 5, 6 and 7.</p> <p>2. The weight of some items illustrated on Table “A” were calculated from as-built plans and measurements in the field during the project design phase. The weight calculations of those items is included in Table “D”. Unknown changes during the construction of the item which were not documented or illustrated on the as-built plans, additions to the item during other improvements which were not documented, or similar circumstances could add significantly to the actual weight of a demolition item. Given these unknowns, the weights illustrated on Table “A’ are assumed to be within 40 percent of the actual weight of the demolition item removed from the project site. The contractor is responsible for completing his/her own volume and weight calculations of all items during the project bidding phase. The contractor shall be responsible for removing all of a particular item from the project site for recycling, reuse, salvage or disposal, regardless of the volume or weight of the item. No additional compensation shall be due to the contractor for removing the additional weight or volume of an item greater than what the contractor had anticipated prior to the removal of the item.</p>				

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CLARIFIER NO 1

Project: City of Imperial - Wastewater Treatment Plant Demolition Project - THG #173.138				
Project Address: 701 East 14th Street, Imperial, CA 92251				
CITY OF IMPERIAL DEMOLITION PERMIT NUMBER:				
II. Clarifier Number 1.				
1	2	3	4	5
Item	Description	Estimated Weight	Inert Material	Not Inert Material
Steel Handrail	There is steel handrail along the steel bridge and PCC stairway . See Plan Sheet 4 and 13	TBD		X
Underground piping including water faucet	See plan sheets 4 and 13.	TBD		X
Underground electrical conduit	See plan sheets 4,13 and 19.	TBD		X
Aluminum Effluent Box Grating	See plan sheets 4 and 13.	TBD		X
All other items illustrated on As Built Plans and within the demolition area.	See As-built Plans. Review items in demolition area during bidding phase site visit.	TBD		X
<p>NOTES:</p> <p>1. TO BE DETERMINED (TBD) – The contractor will not be required to determine the weight of each demolition item on the Table “A” Waste Management Report prior to starting demolition activities, however; the contractor will be required to determine the weight of each material load leaving the project site by weighing the material at vendors scale or a California Certified Public Scale. See Technical Condition Sections 5, 6 and 7.</p> <p>2. The weight of some items illustrated on Table “A” were calculated from as-built plans and measurements in the field during the project design phase. The weight calculations of those items is included in Table “D”. Unknown changes during the construction of the item which were not documented or illustrated on the as-built plans, additions to the item during other improvements which were not documented, or similar circumstances could add significantly to the actual weight of a demolition item. Given these unknowns, the weights illustrated on Table “A” are assumed to be within 40 percent of the actual weight of the demolition item removed from the project site. The contractor is responsible for completing his/her own volume and weight calculations of all items during the project bidding phase. The contractor shall be responsible for removing all of a particular item from the project site for recycling, reuse, salvage or disposal, regardless of the volume or weight of the item. No additional compensation shall be due to the contractor for removing the additional weight or volume of an item greater than what the contractor had anticipated prior to the removal of the item.</p>				

TABLE A
WASTE MANAGEMENT REPORT
IDENTIFICATION OF CONSTRUCTION AND DEMOLITION DEBRIS
CLARIFIER NO 1

Project: City of Imperial - Wastewater Treatment Plant Demolition Project - THG #173.138				
Project Address: 701 East 14th Street, Imperial, CA 92251				
CITY OF IMPERIAL DEMOLITION PERMIT NUMBER:				
II. Clarifier Number 1.				
1	2	3	4	5
Item	Description	Estimated Weight	Inert Material	Not Inert Material
All other items illustrated on As Built Plans and other	See As-built Plans. Review items in demolition area during bidding phase site visit.	TBD		X
Crush Rock	See Plan Sheet 2 and 4. Existing rock salvaged relocated and placed in an area within the City of Imperial Water Treatment Plant determined by the Chief Plant Operator. It is not necessary for weigh the rock.	52 Tons	X	
<p>NOTES:</p> <p>1. TO BE DETERMINED (TBD) – The contractor will not be required to determine the weight of each demolition item on the Table “A” Waste Management Report prior to starting demolition activities, however; the contractor will be required to determine the weight of each material load leaving the project site by weighing the material at vendors scale or a California Certified Public Scale. See Technical Condition Sections 5, 6 and 7.</p> <p>2. The weight of some items illustrated on Table “A” were calculated from as-built plans and measurements in the field during the project design phase. The weight calculations of those items is included in Table “D”. Unknown changes during the construction of the item which were not documented or illustrated on the as-built plans, additions to the item during other improvements which were not documented, or similar circumstances could add significantly to the actual weight of a demolition item. Given these unknowns, the weights illustrated on Table “A’ are assumed to be within 40 percent of the actual weight of the demolition item removed from the project site. The contractor is responsible for completing his/her own volume and weight calculations of all items during the project bidding phase. The contractor shall be responsible for removing all of a particular item from the project site for recycling, reuse, salvage or disposal, regardless of the volume or weight of the item. No additional compensation shall be due to the contractor for removing the additional weight or volume of an item greater than what the contractor had anticipated prior to the removal of the item.</p>				

TABLE A
WASTE MANAGEMENT REPORT
IDENTIFICATION OF CONSTRUCTION AND DEMOLITION DEBRIS
CLARIFIER NO 2

Project: City of Imperial - Wastewater Treatment Plant Demolition Project - THG #173.138				
Project Address: 701 East 14th Street, Imperial, CA 92251				
CITY OF IMPERIAL DEMOLITION PERMIT NUMBER:				
II. Clarifier Number 2.				
1	2	3	4	5
Item	Description	Estimated Weight	Inert Material	Not Inert Material
PCC Concrete	A PCC quantity estimate for Clarifier No.2 completed by the Design Engineer during the project design phase and is included with Table D information. See plan sheet 5.	158 Tons	X	
Steel Handrail	There is steel handrail along the steel bridge and PCC stairway	TBD	X	
Steel bridge	See plan sheets 5 and 14.	TBD		X
Steel supports	See plan sheets 5 and 14.	TBD		X
Steel Center well	See plan sheets 5 and 14.	TBD		X
Steel Vertical shaft	See plan sheets 5 and 14.	TBD		X
<p>NOTES:</p> <p>1. TO BE DETERMINED (TBD) – The contractor will not be required to determine the weight of each demolition item on the Table “A” Waste Management Report prior to starting demolition activities, however; the contractor will be required to determine the weight of each material load leaving the project site by weighing the material at vendors scale or a California Certified Public Scale. See Technical Condition Sections 5, 6 and 7.</p> <p>2. The weight of some items illustrated on Table “A” were calculated from as-built plans and measurements in the field during the project design phase. The weight calculations of those items is included in Table “D”. Unknown changes during the construction of the item which were not documented or illustrated on the as-built plans, additions to the item during other improvements which were not documented, or similar circumstances could add significantly to the actual weight of a demolition item. Given these unknowns, the weights illustrated on Table “A’ are assumed to be within 40 percent of the actual weight of the demolition item removed from the project site. The contractor is responsible for completing his/her own volume and weight calculations of all items during the project bidding phase. The contractor shall be responsible for removing all of a particular item from the project site for recycling, reuse, salvage or disposal, regardless of the volume or weight of the item. No additional compensation shall be due to the contractor for removing the additional weight or volume of an item greater than what the contractor had anticipated prior to the removal of the item.</p>				

TABLE A
WASTE MANAGEMENT REPORT
IDENTIFICATION OF CONSTRUCTION AND DEMOLITION DEBRIS
CLARIFIER NO 2

Project: City of Imperial - Wastewater Treatment Plant Demolition Project - THG #173.138				
Project Address: 701 East 14th Street, Imperial, CA 92251				
CITY OF IMPERIAL DEMOLITION PERMIT NUMBER:				
II. Clarifier Number 2.				
1	2	3	4	5
Item	Description	Estimated Weight	Inert Material	Not Inert Material
Steel Gear reduction assembly	See plan sheets 5 and 14.	TBD		X
Steel Skimmer arm and scum box	See plan sheets 5 and 14.	TBD		X
Steel Raker arms	See plan sheets 5 and 14.	TBD		X
Electrical EMT Conduit and conductors	See plan sheets 5, 14 and 19.	TBD		X
Steel Electrical Motors	See plan sheets 5 and 14.	TBD		X
Flex conduit	See plan sheets 5, 14 and 19.	TBD		X
<p>NOTES:</p> <p>1. TO BE DETERMINED (TBD) – The contractor will not be required to determine the weight of each demolition item on the Table “A” Waste Management Report prior to starting demolition activities, however; the contractor will be required to determine the weight of each material load leaving the project site by weighing the material at vendors scale or a California Certified Public Scale. See Technical Condition Sections 5, 6 and 7.</p> <p>2. The weight of some items illustrated on Table “A” were calculated from as-built plans and measurements in the field during the project design phase. The weight calculations of those items is included in Table “D”. Unknown changes during the construction of the item which were not documented or illustrated on the as-built plans, additions to the item during other improvements which were not documented, or similar circumstances could add significantly to the actual weight of a demolition item. Given these unknowns, the weights illustrated on Table “A” are assumed to be within 40 percent of the actual weight of the demolition item removed from the project site. The contractor is responsible for completing his/her own volume and weight calculations of all items during the project bidding phase. The contractor shall be responsible for removing all of a particular item from the project site for recycling, reuse, salvage or disposal, regardless of the volume or weight of the item. No additional compensation shall be due to the contractor for removing the additional weight or volume of an item greater than what the contractor had anticipated prior to the removal of the item.</p>				

TABLE A
 WASTE MANAGEMENT REPORT
 IDENTIFICATION OF CONSTRUCTION AND DEMOLITION DEBRIS
 CLARIFIER NO 2

Project: City of Imperial - Wastewater Treatment Plant Demolition Project - THG #173.138				
Project Address: 701 East 14th Street, Imperial, CA 92251				
CITY OF IMPERIAL DEMOLITION PERMIT NUMBER:				
II. Clarifier Number 2.				
1	2	3	4	5
Item	Description	Estimated Weight	Inert Material	Not Inert Material
Electrical disconnect switches	See plan sheets 5, 14 and 19.	TBD		X
Electrical junction boxes and all other electrical componets	See plan sheets 5, 14 and 19.	TBD		X
Fiberglass weirs and baffles	See plan sheets 5 and 14.	TBD		X
<p>NOTES:</p> <p>1. TO BE DETERMINED (TBD) – The contractor will not be required to determine the weight of each demolition item on the Table “A” Waste Management Report prior to starting demolition activities, however; the contractor will be required to determine the weight of each material load leaving the project site by weighing the material at vendors scale or a California Certified Public Scale. See Technical Condition Sections 5, 6 and 7.</p> <p>2. The weight of some items illustrated on Table “A” were calculated from as-built plans and measurements in the field during the project design phase. The weight calculations of those items is included in Table “D”. Unknown changes during the construction of the item which were not documented or illustrated on the as-built plans, additions to the item during other improvements which were not documented, or similar circumstances could add significantly to the actual weight of a demolition item. Given these unknowns, the weights illustrated on Table “A” are assumed to be within 40 percent of the actual weight of the demolition item removed from the project site. The contractor is responsible for completing his/her own volume and weight calculations of all items during the project bidding phase. The contractor shall be responsible for removing all of a particular item from the project site for recycling, reuse, salvage or disposal, regardless of the volume or weight of the item. No additional compensation shall be due to the contractor for removing the additional weight or volume of an item greater than what the contractor had anticipated prior to the removal of the item.</p>				

TABLE A
WASTE MANAGEMENT REPORT
IDENTIFICATION OF CONSTRUCTION AND DEMOLITION DEBRIS
CLARIFIER NO 2

Project: City of Imperial - Wastewater Treatment Plant Demolition Project - THG #173.138				
Project Address:701 East 14th Street, Imperial, CA 92251				
CITY OF IMPERIAL DEMOLITION PERMIT NUMBER:				
II. Clarifier Number 2.				
1	2	3	4	5
Item	Description	Estimated Weight	Inert Material	Not Inert Material
Underground piping including water faucet , 8" scum pipeline, rotating weir and other pipeline above elevation 934.55	See plan sheets 5 and 14.	TBD		X
Underground electrical conduit and conductors.	See plan sheets 5,14 and 19.	TBD		X
Aluminum Effluent Box Grating	See plan sheets 5,14 and 19.	TBD		X
NOTES:				
<p>1. TO BE DETERMINED (TBD) – The contractor will not be required to determine the weight of each demolition item on the Table “A” Waste Management Report prior to starting demolition activities, however; the contractor will be required to determine the weight of each material load leaving the project site by weighing the material at vendors scale or a California Certified Public Scale. See Technical Condition Sections 5, 6 and 7.</p> <p>2. The weight of some items illustrated on Table “A” were calculated from as-built plans and measurements in the field during the project design phase. The weight calculations of those items is included in Table “D”. Unknown changes during the construction of the item which were not documented or illustrated on the as-built plans, additions to the item during other improvements which were not documented, or similar circumstances could add significantly to the actual weight of a demolition item. Given these unknowns, the weights illustrated on Table “A’ are assumed to be within 40 percent of the actual weight of the demolition item removed from the project site. The contractor is responsible for completing his/her own volume and weight calculations of all items during the project bidding phase. The contractor shall be responsible for removing all of a particular item from the project site for recycling, reuse, salvage or disposal, regardless of the volume or weight of the item. No additional compensation shall be due to the contractor for removing the additional weight or volume of an item greater than what the contractor had anticipated prior to the removal of the item.</p>				

TABLE A
 WASTE MANAGEMENT REPORT
 IDENTIFICATION OF CONSTRUCTION AND DEMOLITION DEBRIS
 CLARIFIER NO 2

Project: City of Imperial - Wastewater Treatment Plant Demolition Project - THG #173.138				
Project Address: 701 East 14th Street, Imperial, CA 92251				
CITY OF IMPERIAL DEMOLITION PERMIT NUMBER:				
II. Clarifier Number 2.				
1	2	3	4	5
Item	Description	Estimated Weight	Inert Material	Not Inert Material
All other items illustrated on As Built Plans and other above grade items and below grade items evident at the project site.	See plan sheets 5, 14 and 19.	TBD		X
<p>NOTES:</p> <p>1. TO BE DETERMINED (TBD) – The contractor will not be required to determine the weight of each demolition item on the Table “A” Waste Management Report prior to starting demolition activities, however; the contractor will be required to determine the weight of each material load leaving the project site by weighing the material at vendors scale or a California Certified Public Scale. See Technical Condition Sections 5, 6 and 7.</p> <p>2. The weight of some items illustrated on Table “A” were calculated from as-built plans and measurements in the field during the project design phase. The weight calculations of those items is included in Table “D”. Unknown changes during the construction of the item which were not documented or illustrated on the as-built plans, additions to the item during other improvements which were not documented, or similar circumstances could add significantly to the actual weight of a demolition item. Given these unknowns, the weights illustrated on Table “A” are assumed to be within 40 percent of the actual weight of the demolition item removed from the project site. The contractor is responsible for completing his/her own volume and weight calculations of all items during the project bidding phase. The contractor shall be responsible for removing all of a particular item from the project site for recycling, reuse, salvage or disposal, regardless of the volume or weight of the item. No additional compensation shall be due to the contractor for removing the additional weight or volume of an item greater than what the contractor had anticipated prior to the removal of the item.</p>				

TABLE A
WASTE MANAGEMENT REPORT
IDENTIFICATION OF CONSTRUCTION AND DEMOLITION DEBRIS
SLUDGE PUMP STATION BUILDING

Project: City of Imperial - Wastewater Treatment Plant Demolition Project - THG #173.138				
Project Address: 701 East 14th Street, Imperial, CA 92251				
CITY OF IMPERIAL DEMOLITION PERMIT NUMBER:				
IV. Sludge Pump Station Building.				
1	2	3	4	5
Item	Description	Estimated Weight	Inert Material	Not Inert Material
Handrail for Scum Pit	Remove aluminum hand rail at top wall of scum pit. See Sheet 7 and 16.	TBD		X
Ductile Iron Piping, pipe hanger supports and miscellaneous piping	See plan sheets 7,16 and 17.	TBD		X
Electrical Panels	See plan sheets 24,25,26 and 27.	TBD		X
Ductile iron fittings, reducers, transition coupling, etc.	See plan sheets 7,16 and 17.	TBD		X
Steel pipe supports	See plan sheets 7,16 and 17.	TBD		X
Ductile iron valves	See plan sheets 7,16 and 17.	TBD		X
<p>NOTES:</p> <p>1. TO BE DETERMINED (TBD) – The contractor will not be required to determine the weight of each demolition item on the Table “A” Waste Management Report prior to starting demolition activities, however; the contractor will be required to determine the weight of each material load leaving the project site by weighing the material at vendors scale or a California Certified Public Scale. See Technical Condition Sections 5, 6 and 7.</p> <p>2. The weight of some items illustrated on Table “A” were calculated from as-built plans and measurements in the field during the project design phase. The weight calculations of those items is included in Table “D”. Unknown changes during the construction of the item which were not documented or illustrated on the as-built plans, additions to the item during other improvements which were not documented, or similar circumstances could add significantly to the actual weight of a demolition item. Given these unknowns, the weights illustrated on Table “A” are assumed to be within 40 percent of the actual weight of the demolition item removed from the project site. The contractor is responsible for completing his/her own volume and weight calculations of all items during the project bidding phase. The contractor shall be responsible for removing all of a particular item from the project site for recycling, reuse, salvage or disposal, regardless of the volume or weight of the item. No additional compensation shall be due to the contractor for removing the additional weight or volume of an item greater than what the contractor had anticipated prior to the removal of the item.</p>				

Sludge Pump Station Building.

TABLE A
WASTE MANAGEMENT REPORT
IDENTIFICATION OF CONSTRUCTION AND DEMOLITION DEBRIS
SLUDGE PUMP STATION BUILDING

Project: City of Imperial - Wastewater Treatment Plant Demolition Project - THG #173.138				
Project Address: 701 East 14th Street, Imperial, CA 92251				
CITY OF IMPERIAL DEMOLITION PERMIT NUMBER:				
IV. Sludge Pump Station Building.				
1	2	3	4	5
Item	Description	Estimated Weight	Inert Material	Not Inert Material
Steel and ductile iron pumps	See plan sheets 7,16 and 17.	TBD		X
Electrical Lights	See plan sheets 24,25,26,27 and 28.	TBD		X
<p>NOTES:</p> <p>1. TO BE DETERMINED (TBD) – The contractor will not be required to determine the weight of each demolition item on the Table “A” Waste Management Report prior to starting demolition activities, however; the contractor will be required to determine the weight of each material load leaving the project site by weighing the material at vendors scale or a California Certified Public Scale. See Technical Condition Sections 5, 6 and 7.</p> <p>2. The weight of some items illustrated on Table “A” were calculated from as-built plans and measurements in the field during the project design phase. The weight calculations of those items is included in Table “D”. Unknown changes during the construction of the item which were not documented or illustrated on the as-built plans, additions to the item during other improvements which were not documented, or similar circumstances could add significantly to the actual weight of a demolition item. Given these unknowns, the weights illustrated on Table “A” are assumed to be within 40 percent of the actual weight of the demolition item removed from the project site. The contractor is responsible for completing his/her own volume and weight calculations of all items during the project bidding phase. The contractor shall be responsible for removing all of a particular item from the project site for recycling, reuse, salvage or disposal, regardless of the volume or weight of the item. No additional compensation shall be due to the contractor for removing the additional weight or volume of an item greater than what the contractor had anticipated prior to the removal of the item.</p>				

TABLE A
 WASTE MANAGEMENT REPORT
 IDENTIFICATION OF CONSTRUCTION AND DEMOLITION DEBRIS
 SLUDGE PUMP STATION BUILDING

Project: City of Imperial - Wastewater Treatment Plant Demolition Project - THG #173.138				
Project Address: 701 East 14th Street, Imperial, CA 92251				
CITY OF IMPERIAL DEMOLITION PERMIT NUMBER:				
IV. Sludge Pump Station Building.				
1	2	3	4	5
Item	Description	Estimated Weight	Inert Material	Not Inert Material
Electrical equipment including Conduit & Conductors, float switches, junction boxes, smoke detectors, disconnect switches, control dampers, flow meter transmitters, equipment supports, control and instrumentation equipment and all other items.	See plan sheets 24,25,26,27 and 28.	TBD		X
<p>NOTES:</p> <p>1. TO BE DETERMINED (TBD) – The contractor will not be required to determine the weight of each demolition item on the Table “A” Waste Management Report prior to starting demolition activities, however; the contractor will be required to determine the weight of each material load leaving the project site by weighing the material at vendors scale or a California Certified Public Scale. See Technical Condition Sections 5, 6 and 7.</p> <p>2. The weight of some items illustrated on Table “A” were calculated from as-built plans and measurements in the field during the project design phase. The weight calculations of those items is included in Table “D”. Unknown changes during the construction of the item which were not documented or illustrated on the as-built plans, additions to the item during other improvements which were not documented, or similar circumstances could add significantly to the actual weight of a demolition item. Given these unknowns, the weights illustrated on Table “A” are assumed to be within 40 percent of the actual weight of the demolition item removed from the project site.</p> <p>The contractor is responsible for completing his/her own volume and weight calculations of all items during the project bidding phase. The contractor shall be responsible for removing all of a particular item from the project site for recycling, reuse, salvage or disposal, regardless of the volume or weight of the item. No additional compensation shall be due to the contractor for removing the additional weight or volume of an item greater than what the contractor had anticipated prior to the removal of the item.</p>				

TABLE A
WASTE MANAGEMENT REPORT
IDENTIFICATION OF CONSTRUCTION AND DEMOLITION DEBRIS
SLUDGE PUMP STATION BUILDING

Project: City of Imperial - Wastewater Treatment Plant Demolition Project - THG #173.138				
Project Address: 701 East 14th Street, Imperial, CA 92251				
CITY OF IMPERIAL DEMOLITION PERMIT NUMBER:				
IV. Sludge Pump Station Building.				
1	2	3	4	5
Item	Description	Estimated Weight	Inert Material	Not Inert Material
PCC Concrete.	A PCC quantities estimated for the Sludge Pump Station Building was completed by the Design Engineer and is included with Table D information. The pump PCC pedestal bases and concrete piping supports shall be undergo demolition and removal. See plan sheets 7,16, and 17.	TBD		X
Modular scrubber and chorine facility including electrical demolition work.	See plan sheets 6,7,16,24, and 27.	TBD		X
<p>NOTES:</p> <p>1. TO BE DETERMINED (TBD) – The contractor will not be required to determine the weight of each demolition item on the Table “A” Waste Management Report prior to starting demolition activities, however; the contractor will be required to determine the weight of each material load leaving the project site by weighing the material at vendors scale or a California Certified Public Scale. See Technical Condition Sections 5, 6 and 7.</p> <p>2. The weight of some items illustrated on Table “A” were calculated from as-built plans and measurements in the field during the project design phase. The weight calculations of those items is included in Table “D”. Unknown changes during the construction of the item which were not documented or illustrated on the as-built plans, additions to the item during other improvements which were not documented, or similar circumstances could add significantly to the actual weight of a demolition item. Given these unknowns, the weights illustrated on Table “A” are assumed to be within 40 percent of the actual weight of the demolition item removed from the project site.</p> <p>The contractor is responsible for completing his/her own volume and weight calculations of all items during the project bidding phase. The contractor shall be responsible for removing all of a particular item from the project site for recycling, reuse, salvage or disposal, regardless of the volume or weight of the item. No additional compensation shall be due to the contractor for removing the additional weight or volume of an item greater than what the contractor had anticipated prior to the removal of the item.</p>				

Sludge Pump Station Building.

TABLE A
WASTE MANAGEMENT REPORT
IDENTIFICATION OF CONSTRUCTION AND DEMOLITION DEBRIS
SLUDGE PUMP STATION BUILDING

Project: City of Imperial - Wastewater Treatment Plant Demolition Project - THG #173.138				
Project Address: 701 East 14th Street, Imperial, CA 92251				
CITY OF IMPERIAL DEMOLITION PERMIT NUMBER:				
IV. Sludge Pump Station Building.				
1	2	3	4	5
Item	Description	Estimated Weight	Inert Material	Not Inert Material
All other items not specifically noted on the plans per prior listed items.	See plan sheets 7,16,17,24,25,26,27, and 28	TBD		X
<p>NOTES:</p> <p>1. TO BE DETERMINED (TBD) – The contractor will not be required to determine the weight of each demolition item on the Table “A” Waste Management Report prior to starting demolition activities, however; the contractor will be required to determine the weight of each material load leaving the project site by weighing the material at vendors scale or a California Certified Public Scale. See Technical Condition Sections 5, 6 and 7.</p> <p>2. The weight of some items illustrated on Table “A” were calculated from as-built plans and measurements in the field during the project design phase. The weight calculations of those items is included in Table “D”. Unknown changes during the construction of the item which were not documented or illustrated on the as-built plans, additions to the item during other improvements which were not documented, or similar circumstances could add significantly to the actual weight of a demolition item. Given these unknowns, the weights illustrated on Table “A” are assumed to be within 40 percent of the actual weight of the demolition item removed from the project site. The contractor is responsible for completing his/her own volume and weight calculations of all items during the project bidding phase. The contractor shall be responsible for removing all of a particular item from the project site for recycling, reuse, salvage or disposal, regardless of the volume or weight of the item. No additional compensation shall be due to the contractor for removing the additional weight or volume of an item greater than what the contractor had anticipated prior to the removal of the item.</p>				

TABLE A
WASTE MANAGEMENT REPORT
IDENTIFICATION OF CONSTRUCTION AND DEMOLITION DEBRIS
ULTRAVIOLET DISINFECTION FACILITY

Project: City of Imperial - Wastewater Treatment Plant Demolition Project - THG #173.138	
Project Address: 701 East 14th Street, Imperial, CA 92251	
CITY OF IMPERIAL DEMOLITION PERMIT NUMBER:	
V. Ultraviolet Disinfection Facility	
Note: No Demolition work will be completed at the Ultraviolet Disinfection Facility.	

TABLE A
WASTE MANAGEMENT REPORT
IDENTIFICATION OF CONSTRUCTION AND DEMOLITION DEBRIS
SEPTIC DUMP PCC STRUCTURE

Project: City of Imperial - Wastewater Treatment Plant Demolition Project - THG #173.138				
Project Address: 701 East 14th Street, Imperial, CA 92251				
CITY OF IMPERIAL DEMOLITION PERMIT NUMBER:				
VI. Septic Dump PCC Structure				
1	2	3	4	5
Item	Description	Estimated Weight	Inert Material	Not Inert Material
Steel Grates	See Sheet 9	TBD		X
Ductile Iron Piping, fittings and valves	See Sheet 9	TBD		X
PCC Concrete	A PCC quantity estimate for the Septic Dump PCC Structure was completed by the Design Engineer and is included with Table D information.	27.5 Tons	X	
Asphalt	Asphalt quantity estimate for Septic Dump PCC Structure completed by the Design Engineer and is included with Table D information.	7.5 Tons	X	
Crush Rock	Crushed rock is with in demolitions limits east of the septic Dump Structure – See sheet 2	52 Tons	X	
<p>NOTES:</p> <p>1. TO BE DETERMINED (TBD) – The contractor will not be required to determine the weight of each demolition item on the Table “A” Waste Management Report prior to starting demolition activities, however; the contractor will be required to determine the weight of each material load leaving the project site by weighing the material at vendors scale or a California Certified Public Scale. See Technical Condition Sections 5, 6 and 7.</p> <p>2. The weight of some items illustrated on Table “A” were calculated from as-built plans and measurements in the field during the project design phase. The weight calculations of those items is included in Table “D”. Unknown changes during the construction of the item which were not documented or illustrated on the as-built plans, additions to the item during other improvements which were not documented, or similar circumstances could add significantly to the actual weight of a demolition item. Given these unknowns, the weights illustrated on Table “A” are assumed to be within 40 percent of the actual weight of the demolition item removed from the project site. The contractor is responsible for completing his/her own volume and weight calculations of all items during the project bidding phase. The contractor shall be responsible for removing all of a particular item from the project site for recycling, reuse, salvage or disposal, regardless of the volume or weight of the item. No additional compensation shall be due to the contractor for removing the additional weight or volume of an item greater than what the contractor had anticipated prior to the removal of the item.</p>				

TABLE A
 WASTE MANAGEMENT REPORT
 IDENTIFICATION OF CONSTRUCTION AND DEMOLITION DEBRIS
 SEPTIC DUMP PCC STRUCTURE

Project: City of Imperial - Wastewater Treatment Plant Demolition Project - THG #173.138				
Project Address: 701 East 14th Street, Imperial, CA 92251				
CITY OF IMPERIAL DEMOLITION PERMIT NUMBER:				
VI. Septic Dump PCC Structure				
1	2	3	4	5
Item	Description	Estimated Weight	Inert Material	Not Inert Material
Retaining Wall included with Operational Building	Existing Rock to be salvaged, relocated and placed in an area within the City of Imperial Wastewater Treatment Plant determined by the Chief Plant Operator. It is not necessary for weigh the rock. This item is also included on the Clarifier Number 1- Table A Definition List	52 Tons	X	
<p>NOTES:</p> <p>1. TO BE DETERMINED (TBD) – The contractor will not be required to determine the weight of each demolition item on the Table “A” Waste Management Report prior to starting demolition activities, however; the contractor will be required to determine the weight of each material load leaving the project site by weighing the material at vendors scale or a California Certified Public Scale. See Technical Condition Sections 5, 6 and 7.</p> <p>2. The weight of some items illustrated on Table “A” were calculated from as-built plans and measurements in the field during the project design phase. The weight calculations of those items is included in Table “D”. Unknown changes during the construction of the item which were not documented or illustrated on the as-built plans, additions to the item during other improvements which were not documented, or similar circumstances could add significantly to the actual weight of a demolition item. Given these unknowns, the weights illustrated on Table “A” are assumed to be within 40 percent of the actual weight of the demolition item removed from the project site. The contractor is responsible for completing his/her own volume and weight calculations of all items during the project bidding phase. The contractor shall be responsible for removing all of a particular item from the project site for recycling, reuse, salvage or disposal, regardless of the volume or weight of the item. No additional compensation shall be due to the contractor for removing the additional weight or volume of an item greater than what the contractor had anticipated prior to the removal of the item.</p>				

**15. TABLE B –DAILY RECYCLING LOG OF CONSTRUCTION & DEMOLITION (C & D)
MATERIAL CHART**

The weight of each demolition material item leaving the project site shall be recorded on Table B, the Daily Recycling Log of Construction & Demolition (C & D) Material Chart. Table B includes eighteen (18) columns. *A Table B Chart has been prepared for each demolition structure.* Table B shall be made current each day, except for logging the weight of each item the day after the item is removed from the project site. Table B - column 16 requires the construction manager to initial and date each listed demolition item the day after the item is removed from the project site to verify all columns for a particular item have been satisfactorily completed. The Table B – Daily Recycling Log of Construction & Demolition (C & D) Material Charts are included on the following pages.

16. TABLE C – WASTE MANAGEMENT SUMMARY REPORT

A Waste Management Summary Report – Table C Chart shall be prepared each Monday for the previous week’s demolition work. The Table C Chart includes thirteen columns. The Table C Chart will transfer weight related column information for the previous week from Table B to Table C. The Table C *accumulative* inert and non-inert diversion percentages will be calculated each week. If diversion percentages are not in conformance with the diversion goals the contractor shall determine on how recycling, reuse or salvage methods will be modified to bring the diversion percentages within the diversion percentage goals. The Table C – Waste Management Summary Report Chart is included on the following pages.

17. TABLE D – Design Engineers Opinion of Probable Quantity (EEOPQ)

Quantity and weight estimates for several of the largest demolition item contributors were completed for several quantifiable items including the pcc concrete and ductile iron piping, valves, fittings and related items. The quantity estimates were completed to determine the rough, approximate weight of these materials and gain insight as to the magnitude of the demolition work to be completed. Many of the estimates are relying on as-built plans, which may not be completely accurate. There may have been construction improvements completed over the last 40 years for some of the buried or unobservable items which were not recorded (but will require demolition). The quantity and weight estimates are to be considered rough and accurate within 40 percent of the calculated weight of a particular item designation. The Table D EEOPC quantity and weight estimates are included on the following pages.

The contractor is responsible for completing his/her own quantity and weight estimates during the bidding phase and shall be responsible for determining the quantity and weight of each demolition item. The contractor shall rely on his/her quantity and weight estimates to prepare the bid proposal and shall not be allowed additional compensation by claiming the quantity and weight estimates prepared by the contractor during the bidding period was less than the actual quantity and weight of items removed from the project site during the construction period. Furthermore, the contractor will be submitting a “lump sum” bid for this project and will not be compensated for the demolition work to be performed on a unit price basis.

CITY OF IMPERIAL – WASTEWATER TREATMENT PLANT
DEMOLITION PROJECT

THG # 173.138

ENGINEERS OPINION OF PROBABLE QUANTITY

The Engineer’s Opinion of Probable Quantities is approximate. The Contractor shall be responsible for determining its own quantities and weights during the bidding process.

I. Operation Building.

1. Sawcut the existing P.C.C. sidewalk for the full depth of the P.C.C. sidewalk per Demolition Keynote 1.

3.89' = 3.89 L.F. **≈ 4 L.F.**

2. Remove and dispose existing P.C.C. sidewalk and steps per Demolition Keynote 2.

4' x 40.5' = 162 S.F. = 162 S.F X 0.25' = 41 C.F. $\frac{41 \text{ C.F.} \times 150 \text{ \#/CF}}{2000 \text{ \#/TONS}} \approx \mathbf{3.1 \text{ Tons of PCC concrete.}}$

3. Remove and dispose of the existing break room tile floor and underlying material resulting in a smooth clean underlying concrete floor per Demolition Keynote 3.

(18.2' X (15.3')) = 278.46 S.F. **≈ 277 S.F. of tile floor.**

4. Remove and dispose of the existing break room cabinets and sink all other items associated with the break room and cabinet and sink per Demolition Keynote 4.

LUMP SUM.

5. Remove and dispose of the existing bathroom interior masonry walls and partitions, including all components mounted to or bordering the walls. See items mounted to or bordering the walls include but are not limited to the bathroom sinks and underlying cabinets, urinals ,water closet, mirrors, soap dispensers, toilet paper holders, paper towel dispensers, shelves, cloth hangers, benches and other items per Demolition Keynote 5.

LUMP SUM.

- Remove and dispose of the existing bathroom floor tile and underlying material resulting in a smooth clean underlying concrete floor per Demolition Keynote 6.

LUMP SUM.

- Remove and dispose of the existing items bordering the laboratory room wall. Remove the refrigerator, eyewash station, cabinets, oven, countertops, shelves, sink, plumbing, and all other items bordering the north east and west walls. The fire extinguisher along the east wall is to be removed and delivered to the imperial wastewater treatment plant chief operator. All electrical panels, electrical transformer and irrigation controller along the south laboratory wall is to remain per Demolition Keynote 7.

LUMP SUM.

- Remove and dispose of the existing laboratory room floor paint per Demolition Keynote 8.

$$(23.3') \times (10.7') = 249.31 \text{ S.F.} \approx \underline{\underline{250 \text{ S.F. of tile floor.}}}$$

- Remove and dispose of the existing concrete retention wall and below grade footing. See Cross Section A-A on plan sheet 29 per Demolition Keynote 9.

$$(4' \times .5') + (2' \times 1.25') = 2 \text{ S.F.} + 2.5 \text{ S.F.} = 4.5 \text{ S.F.} \times 67' = 301.5 \text{ C.F.}$$

$$= \frac{301.5 \text{ C.F.} \times 150 \text{ \#/CF}}{2000 \text{ \#/TONS}} \approx \underline{\underline{22.6 \text{ Tons of PCC concrete.}}}$$

- Sawcut the existing P.C.C. Masonry wall to create a window opening measuring 37" x 37", located 44" above the finished floor to the bottom of the opening. Remove and properly dispose of all materials associated with the opening. Verify exact location and dimensions with the construction management prior to the sawcutting and removal of the masonry wall opening per Demolition Keynote 10.

$$3.08' \times 4 \times 3 = 36.96 \text{ L.F.} \approx \underline{\underline{37 \text{ L.F.}}}$$

$$3.08' \times 3.08' \times 0.666 = 6.31 \text{ C.F.} \times 3 = \frac{19 \text{ C.F.} \times 150 \text{ \#/CF}}{2000 \text{ \#/TONS}} \approx \underline{\underline{1.43 \text{ Tons of PCC concrete.}}}$$

- Sawcut the existing P.C.C. Masonry wall to create a door opening measuring 34" x 82". Remove and properly dispose of all materials associated with the opening. Verify exact location and dimensions with the construction management prior to the sawcutting and removal of the masonry wall opening per Demolition Keynote 11.

$$2.8' + 6.8' + 2.8' + 6.8' = 19.2 \text{ L.F.} \approx \underline{\underline{20 \text{ L.F.}}}$$

$$2.8' \times 6.8' \times 0.666 = 12.68 \text{ C.F.} = \frac{1.68 \text{ C.F.} \times 150 \text{ \#/CF}}{2000 \text{ \#/TONS}} \approx \underline{\underline{0.95 \text{ Tons of PCC concrete.}}}$$

12. Summary of Concrete of the Operations Building

Sidewalk and Retention Wall Concrete.

$$3.1 \text{ Tons} + 26.6 \text{ Tons} = 29.7 \text{ Tons} \approx \underline{\underline{30 \text{ Tons}}}$$

Masonry Wall.

$$1.43 \text{ Tons} + 0.95 \text{ Tons} = 2.38 \text{ Tons} \approx \underline{\underline{2.5 \text{ Tons}}}$$

II. Clarifier Number 1.

1. Sawcut A.C. pavement for the full depth of the A.C. pavement per demolition keynote 1.

$$56.5' + 12' = 68.5 \text{ L.F.} \approx \underline{\underline{69 \text{ L.F.}}}$$

2. Remove and dispose of A.C. pavement per demolition keynote 2.

$$12' \times 17.5' + 22' \times 1.6' + \frac{15' \times 6'}{2} + 13' \times 20' = 210 \text{ S.F.} + 33.2 \text{ S.F.} + 45 \text{ S.F.} + 260 \text{ S.F.} = \frac{548.2 \text{ S.F.} \times .25'}{27} \approx \underline{\underline{5 \text{ CYD of A.C. Pavement.}}}$$

3. Remove and dispose of existing PCC sidewalk per demolition keynote 3.

$$(A = \pi 31.10^2) - (A = \pi 27.85^2) + 5.25' \times 26' = 3038.58 \text{ S.F.} - 2436.68 \text{ S.F.} + 136.5 \text{ S.F.} = 738.40 \text{ S.F.} = \frac{738.40 \text{ S.F.} \times .25'}{27} \approx \underline{\underline{7 \text{ CYD of PCC concrete.}}}$$

4. Remove and dispose of existing Clarifier Number 1 PCC exterior wall, wall footing, launder wall, effluent channel and weir wall including all items attached to these PCC structures. See Section B-B on plan sheet 5 per demolition keynote 4.

$$12.26' \times 1.2 + 2 \times 1.2 + 0.5' \times 5' + \frac{.5' \times 5'}{2} + 0.5' \times 2' = 14.712 \text{ S.F.} + 2.4 \text{ S.F.} + 2.5 \text{ S.F.} + 1.25 \text{ S.F.} + 1.0 \text{ S.F.} = 21.862 \text{ S.F.} \times 175 \text{ FT (Circumference)} = 3825.85 \text{ C.F.} = \frac{3825.85 \text{ C.F.}}{27} \approx \underline{\underline{141.7 \text{ CYD of PCC concrete.}}}$$

5. Remove and dispose of the existing Clarifier Number 1 PCC floor and below grade PCC footings per demolition keynote 5.

$$(A = \pi 26.8^2) - (A = \pi 19.68^2) = 2256.4 \text{ S.F.} - 1216.74 \text{ S.F.} =$$

$$1039.67 \text{ S.F.} \times 1 \text{ FT} = 1039.67 \text{ C.F.}$$

$$(A = \pi 19.68^2) = 1216 \text{ S.F.} \times 0.75 \text{ F.T.} = 912.56 \text{ C.F.}$$

$$1039.67 \text{ C.F.} + 912.56 \text{ C.F.} = 1952.23 \text{ C.F.} = \frac{1952.23 \text{ C.F.}}{27} \approx \underline{\underline{72.30 \text{ CYD of PCC concrete.}}}$$

6. Remove and dispose of the existing Clarifier Number 1 PCC stairs including the existing handrails and all other items attached to the stairs. See Section D-D on this plan sheet per demolition keynote 6.

LUMP SUM.

7. Remove and dispose of the existing Clarifier Number 1 PCC effluent box walls, floor and footing. Remove and dispose of the effluent box grating and all other items attached to the effluent box. See Section C-C on this plan sheet per demolition keynote 7.

7.1 CONCRETE.

$$(8.6' \times 1.2' \times 9.35') + (4' \times 4' \times 1.2') = 115.7 \text{ C.F.} = \frac{115.7 \text{ C.F.}}{27} \approx \underline{\underline{4.28 \text{ CYD of PCC concrete.}}}$$

7.2 GATE.

1 EACH.

7.3 PIPELINE

1 EACH.

8. Remove and dispose of existing clarifier number 1 PCC sludge hopper structure and all items connected or embedded in the sludge hopper structure. See Detail A on this plan sheet per demolition keynote 8.

LUMP SUM.

9. Remove and dispose of all mechanical and electrical items within existing Clarifier Number 1 including but not limited to the raker arm, raker arm shaft, clarifier motor and gear reduction box, skimmer arm, steel bridge, electrical conduit and conductors for the clarifier motor, electrical disconnect switch near the electrical motor, electrical light and all other mechanical and electrical components per demolition keynote 9.

LUMP SUM.

10. Remove and dispose of water faucet and underground water pipeline per demolition keynote 11.

1 EACH.

11. Summation of Concrete and Asphalt of Clarifier Number 1.

11.1. From Item 2 – Asphalt

$$\frac{135 \text{ C.F.} \times 145 \text{ \#/CF}}{2000 \text{ \#/TONS}} \approx \underline{\underline{10 \text{ Tons of Asphalt.}}}$$

11.2. From Items 3,4,5, and 7 – Concrete

189 C.F.+3825.9 C.F.+1952.23 C.F.+115.56 C.F. = 6082.69 C.F. of Concrete.

$$\frac{6082.69 \text{ C.F.} \times 150 \text{ \#/CF}}{2000 \text{ \#/TONS}} \approx \underline{\underline{457 \text{ Tons of Concrete.}}}$$

III. Clarifier Number 2.

1. Sawcut the existing PCC sidewalk for the full depth of the PCC sidewalk per demolition keynotes 1.

3 L.F.

2. Sawcut the existing PCC Clarifier Number 2 Wall.

$$164 \text{ L.F} + 17 \text{ L.F} = \underline{\underline{181 \text{ L.F.}}}$$

3. Remove and dispose of existing PCC sidewalk per demolition keynotes 2.

$$((A = \pi 29^2) - (A = \pi 26.13^2)) + (5' \times 12.5') + (6' \times 19') + (3' \times 29') = 497 \text{ S.F.} + 62.5 \text{ S.F.} + 114 \text{ S.F.} + 87 \text{ S.F.} = 760.51 \text{ S.F.} = \frac{760.51 \text{ S.F.} \times .25'}{27} \approx \underline{\underline{7 \text{ CYD of PCC concrete.}}}$$

4. Remove and dispose of existing Clarifier Number 2 exterior wall, effluent channel and weir wall including all items bordering or attached to the exterior wall, effluent channel and weir wall above elevation 934.55. the clarifier exterior wall below elevation 934.55 is to remain. the exterior PCC wall is to be sawcut for the full width of the wall at el. 934.55 prior to commencing the wall demolition. see section e-e on this plan sheet per demolition keynotes 3.

$$6' \times 1' + 0.5' \times 5' + \frac{.5' \times 5'}{2} + 0.5' \times 2.5' = 6 \text{ S.F.} + 2.5 \text{ S.F.} + 1.25 \text{ S.F.} + 1.25 \text{ S.F.} = 11 \text{ S.F.} \times 164.25 \text{ FT (Circumference)} =$$

$$1806.75 \text{ C.F.} = \frac{1806.75 \text{ C.F.}}{27} \approx \underline{\underline{67 \text{ CYD of PCC concrete.}}}$$

5. Remove and dispose of the Clarifier Number 2 existing PCC stairs including all attached items. See Section F-F on plan sheet 5 per demolition keynotes 4.

LUMP SUM.

6. Remove and dispose of the Clarifier Number 2 existing PCC effluent box including all attached items above an elevation of 934.55. See Section E-E on plan sheet 5.

6.1 CONCRETE.

$$(6' \times 1' \times 13.5') + (5' \times 5' \times 1') = 106 \text{ C.F.} = \frac{106 \text{ C.F.}}{27} \approx \underline{\underline{4.0 \text{ CYD of PCC concrete.}}}$$

6.2 GATE.

1 EACH.

6.3 PIPELINE

1 EACH.

7. Remove and dispose of all Clarifier Number 2 mechanical components within Clarifier Number 2 including but not limited to the steel bridge and handrails, steel supports, centerwell, vertical shaft, gear reduction assembly, skimmer arm, scum box, raker arms and all other items. also remove and dispose of electrical facilities in Clarifier Number 2 including electrical conduits and conductors, motors, flex conduit, disconnect switches, junction boxes and all other electrical items per demolition keynotes 6.

LUMP SUM.

8. Summation of Concrete of Clarifier Number 1.

8.1. From Items 3,4, and 6 – Concrete

$$189 \text{ C.F.} + 1806.75 \text{ C.F.} + 106 \text{ C.F.} = 2101.75 \text{ C.F. of Concrete.}$$

$$\frac{2101.75 \text{ C.F.} \times 150 \text{ \#/CF}}{2000 \text{ \#/TONS}} \approx \underline{\underline{158 \text{ Tons of Concrete.}}}$$

IV. Sludge Pump Station Building.

IV.I - Sludge Pump Station Building - Demolition

1. Remove and dispose of existing aluminum handrail around the perimeter of the scum pit upper wall. sawcut the aluminum handrail level with the existing top north scum pit wall per demolition keynote 1.

LUMP SUM.

2. Remove mechanical equipment, piping extruding into the scum pit past the interior wall surfaces, pump floats and electrical circuitry and any other miscellaneous items per demolition keynote 2.

LUMP SUM.

3. Sawcut existing pipeline extending through the floor slab at the top of floor level. Remove existing piping per demolition keynote 3.

2 EACH.

4. Remove and dispose of the existing scum pump and all scum pump related items. the scum pump concrete pedestal base shall be removed and disposed of. the existing concrete pump pedestal base shall be removed without damaging the concrete floor beneath the pedestal base. cut and remove any securement expansion bolts or steel dowel pedestal reinforcement level with the PCC floor. restore the concrete surface under the concrete pedestal per construction keynote 7 on plan sheet 7 per demolition keynote 4.

2 EACH.

5. Remove and dispose of the existing return activated sludge (RAS) pump and all RAS pump related items. the RAS pump concrete pedestal base shall be removed and disposed of. the existing concrete pump pedestal base shall be removed without damaging the concrete floor beneath the pedestal base. cut and remove any securement expansion bolts or steel dowel pedestal reinforcement level with the PCC floor. restore the concrete surface under the concrete pedestal per construction keynote 7 on plan sheet 7 per demolition keynote 5.

3 EACH.

6. Remove and dispose of the existing waste activated sludge (WAS) pump and all was pump related items. The was pump concrete pedestal base shall be removed and disposed of. The existing concrete pump pedestal base shall be removed without damaging the concrete floor beneath the pedestal base. Cut and remove any securement expansion bolts or steel dowel pedestal reinforcement level with the PCC floor. Restore the concrete surface under the concrete pedestal per construction keynote 7 per demolition keynote 6.

2 EACH.

7. Remove and dispose of the existing square concrete piping support pier to the concrete floor. the concrete piping support pier shall be removed without damaging the concrete floor beneath the support pier. Cut and remove any securement expansion bolts or steel dowel pier reinforcement level with the PCC floor. Restore the concrete floor surface under the concrete support pier per construction keynote 7 per demolition keynote 7.

5 EACH.

8. Remove and dispose of the existing 8 inch pipeline. Install an 8 inch blind flange over the end of the existing 8 inch pipeline to remain per construction keynote 1 on plan sheet 7 per demolition keynote 8.

3 EACH.

9. Remove and dispose of the existing 12 inch pipeline, fittings, valves, reducers, supports and all other items associated with the 12 inch pipeline per demolition keynote 9.

LUMP SUM.

10. Remove and dispose of the existing 18 inch diameter pipeline to the flange of the existing 18 inch diameter pipeline entering or exiting the sludge pump station lower level. see construction keynote 2 regarding the installation of the 18 inch ductile iron blind flanges per demolition keynote 10.

2 EACH.

11. Remove all piping, fittings, valves, reducers, pipeline hangar supports and all other items associated with the existing piping in the sludge pump station lower level per demolition keynote 11.

LUMP SUM.

12. Remove and dispose of the existing modular scrubber and chlorine facility manufactured building and all related components within the manufactured building per demolition keynote 12.

LUMP SUM.

13. Remove and dispose of existing 4 inch pipeline. install a 4 inch blind flange over the end of the existing 4 inch pipeline to remain per construction keynote 3 on plan sheet 7 per demolition keynote 13.

2 EACH.

IV.II - Sludge Pump Station Building – Construction

1. Install 8 inch ductile iron blind flange with ductile iron hardware after removal of existing piping per construction keynote number 1 on plan sheet 7.

3 EACH.

2. Install 18 inch ductile iron blind flange with ductile iron hardware per construction keynote number 2 on plan sheet 7.

2 EACH.

3. Install 4 inch ductile iron blind flange with ductile iron hardware after removal of existing piping per construction keynote number 3 on plan sheet 7.

1 EACH.

4. After demolition activities are completed, install native earth in the scum pit in 8 inch lifts to a point 14 inches below the top of the scum pit wall. Compact the native earth to 90 percent of maximum density per ASTM d1557. A compaction test shall be obtained every 16 inches. Additional lifts shall not be placed until previous lifts have attained the specified compaction density. Install 6 inches of PCC concrete over 8 inches of class 2 base at the top of the scum pit. The top of the PCC slab shall be placed level with the top of the scum pit wall. Compact the class 2 base to 95 percent of maximum density per ASTM d1557. A total of one (1) compaction test shall be obtained for the class 2 base prior to the placement of the concrete slab. The concrete shall contain 7 sacks of cement and attain 5,000 psi compressive strength at 28 days curing. The concrete slab surface shall be double troweled followed by a light broom finish.

4.1 Native Soil backfield

$$\frac{76.5 \text{ S.F.} \times 10.98 \text{ FT}}{27} = 31.11 \times 1.20 = \underline{\underline{37 \text{ CYD.}}}$$

4.2 Class 2 Base Backfilled

$$\frac{50.94 \text{ C.F.} \times 135 \text{ \#/CF}}{2000 \text{ \#/TONS}} \approx \underline{\underline{3.4 \text{ Tons of Class 2 Base.}}}$$

4.3 PCC Concrete Base

$$\frac{38.25 \text{ C.F.}}{27} \approx \underline{\underline{1.4 \text{ CYD of Concrete.}}}$$

5. After the modular scrubber and chlorine facility is removed and disposed of the contractor shall seal all openings in the sludge pump station concrete ceiling and walls from chlorine related piping, sleeves, securement and any other items. a non-shrink grout is to be placed in the full opening void and smoothed level with the concrete slab and ceiling surfaces. per construction keynote number 5 on plan sheet 7.

LUMP SUM.

6. Prior to the installation of native backfill material in the scum pit the contractor shall fill all openings in the concrete wall surfaces with a non-shrink grout. the non-shrink grout shall be placed in the full opening void and smoothed level with the interior and exterior wall surfaces per construction keynote number 6 on plan sheet 7.

LUMP SUM.

7. After the removal of the concrete pump pedestals, concrete pipe support piers, and removal of sapling pipeline per demolition keynotes 5,7 and 16 the exposed surface of the underlying concrete pump station floor shall be restored to provide a smooth, uniform finish consistent with the surrounding concrete surface. the concrete floor underlying the removed concrete pump pedestals, piers and removal of sapling pipeline shall be restored per construction keynote number 7 on plan sheet 7.

LUMP SUM.

- After the demolition of the pipeline and before the concrete restoration per construction keynote 7, contractor shall fill opening in the concrete floor surfaces with a non-shrink grout. the non-shrink grout shall be placed in the full opening void level with the floor surface per construction keynote number 8 on plan sheet 7.

2 EACH.

V. Ultraviolet Disinfection Facility

- Install a Sikadur Combiflex SG-20P High Performance Joint Sealing System, or an approved equal, in accordance with the manufacturer's instructions per construction keynote 1 on plan sheet 8, and following the High Performance Joint Sealing System Installation Sequence of Events.

12 L.F.

VI. Septic Dump PCC Structure

- Sawcut existing A.C. pavement for the full depth of the A.C. pavement per demolition keynote 1 on plan sheet 9.

$$27 + 18 + 18.5 + 23 + 35 = \underline{\underline{122 L.F.}}$$

- Remove and dispose of existing A.C. pavement per demolition keynote 2 on plan sheet 9.

$$5' \times 32' + 2' \times 13' + 20.5' \times 3.5' + 3.5' \times 15' + 35' \times 3' + = 160 \text{ S.F.} + 26 \text{ S.F.} + 70 \text{ S.F.} \\ + 52.5 \text{ S.F.} + 105 \text{ S.F.} = \frac{413.5 \text{ S.F.} \times .25'}{27} \approx \underline{\underline{3.8 \text{ CYD of A.C. Pavement.}}}$$

- Remove and dispose of existing PCC sidewalk per demolition keynote 3 on plan sheet 9.

$$(9.5' + 17.5' + 9.5') \times (4') = 146 \text{ S.F.} = \frac{146 \text{ S.F.} \times .25'}{27} \approx \underline{\underline{1.35 \text{ CYD of PCC concrete.}}}$$

- Existing rock salvaged relocated and placed in an area within the city of imperial water treatment plant determined by the chief plant operator. See plan sheet 2 for illustration of the entire crushed rock area per demolition keynote 4 on plan sheet 9.

$$(21.1') \times (48.5') = 1023.35 \text{ S.F.} \times .75 = 767.51 \text{ C.F.} = \frac{767.51 \text{ C.F.} \times 131 \text{ \#/CF}}{2000 \text{ \#/TONS}} \approx \underline{\underline{52}}$$

Tons crushed rock.

5. Remove and dispose of existing PCC septic dump structure ceiling, walls and base including the existing steel access grates, 8 inch wastewater valve, and all other septic dump structure related items. where sloped excavation is not feasible due to demolition boundary line constraints, the contractor shall employ vertical or near vertical excavation methods using engineered sheeting, shoring, or shielding systems designed and installed per CAL/OSHA and California code of regulation requirements. excavation work shall be performed in strict accordance with California code of regulations, title 8, section 1541.1 - requirements for protective systems. excavations shall not extend beyond the demolition limits line illustrated on the plans. the contractor shall take all necessary precautions to protect adjacent pipelines, conduits, structures and pavement located beyond the demolition boundary line per demolition keynote 5 on plan sheet 9.

5.1 CONCRETE

$$(38' \times 6.83' \times 0.66') + (9.5' \times 9.5' \times 0.66') + ((3.166' \times 9.5') - A = \pi 2.5^2 / 2) \times 9.5' = 171.30 \text{ C.F.} + 59.56 \text{ C.F.} + 99.20 \text{ C.F.} = 330.059 \text{ C.F.}$$

$$\frac{330.059 \text{ C.F.} \times 150 \text{ \#/CF}}{2000 \text{ \#/TONS}} \approx \underline{\underline{24.75 \text{ Tons of Concrete.}}}$$

5.2 Access Grates

2 EACH.

6. Remove and dispose of existing 8 inch wastewater valve and associated components per demolition keynote 6 on plan sheet 9.

1 EACH.

7. Remove and dispose of existing 8 inch flush pipeline with 2 inch relief valve and associated components per demolition keynote 7 on plan sheet 9.

1 EACH.

8. Summation of Concrete and Asphalt of Septic Dump PCC Structure.

8.1. From Item 2 – Asphalt

$$\frac{102.6 \text{ C.F.} \times 145 \text{ \#/CF}}{2000 \text{ \#/TONS}} \approx \underline{\underline{7.5 \text{ Tons of Asphalt.}}}$$

8.2. From Items 3,4,5, and 7 – Concrete

$$36.45 \text{ C.F.} + 330.059 \text{ C.F.} = 366.509 \text{ C.F. of Concrete.}$$

$$\frac{366.509 \text{ C.F.} \times 150 \text{ \#/CF}}{2000 \text{ \#/TONS}} \approx \underline{\underline{27.5 \text{ Tons of Concrete.}}}$$

VII. Grading, Backfilled and Trailer Installation.

1. Backfill with native material the demolished structures per construction keynotes 1 and 2 on plan sheet 30.

1.1 Operations Building

Do not apply

1.2 Clarifier Number 1

- 1.2.1 From Section 2 item 2.

$$\frac{548.2 \text{ S.F.} \times .25'}{27} \approx \underline{\underline{5 \text{ CYD of A.C. Pavement removal.}}}$$

- 1.2.2 From Section 2 item 3.

$$\frac{738.40 \text{ S.F.} \times .25'}{27} \approx \underline{\underline{7 \text{ CYD of PCC concrete removal.}}}$$

- 1.2.3 Area from Clarifier No.1

$$(A = \pi 28.83^2) \times 10.5' = 27417.60 \text{ C.F.} \times \frac{27417.60 \text{ C.F.}}{27} \approx \underline{\underline{1015.5 \text{ CYD of Clarifier No.1 PCC concrete removal.}}}$$

Total of native soil for backfill Section 2

$$5 \text{ CYD} + 7 \text{ CYD} + 1015.5 \text{ CYD} = 1027.46 \text{ CYD} \times 1.20 \text{ (Shrinkage factor)} \approx \underline{\underline{1233 \text{ CYD of Native Soil.}}}$$

1.3 Clarifier Number 2.

- 1.3.1 From Section 3 item 3.

$$\frac{760.51 \text{ S.F.} \times .25'}{27} \approx \underline{\underline{7 \text{ CYD of PCC concrete.}}}$$

- 1.3.2 Area from Clarifier No.2.

$$(A = \pi 24.8^2) \times 13.5' = 26084.83 \text{ C.F.} \times \frac{26084.83 \text{ C.F.}}{27} \approx \underline{\underline{996.10 \text{ CYD of Clarifier No.1 PCC concrete removal.}}}$$

Total of native soil for backfill Section 3

7 CYD + 996.10 CYD = 973.10 CYD X 1.20 (Shrinkage factor) ≈ 1168 CYD of Native Soil.

1.4 Sludge Pump Station Building.

1.4.1 From Section 4.1 item 3.

$$\frac{84 \text{ C.F.}}{27} \approx \underline{3.1 \text{ CYD of PCC concrete removal.}}$$

1.4.2 From Section 4.2 item 4.

$$\frac{76.5 \text{ S.F.} \times 12.15 \text{ FT}}{27} = \underline{34 \text{ CYD.}}$$

Total of native soil for backfill Section 4

3.1 CYD + 34 CYD = 37.1 CYD X 1.20 (Shrinkage factor) ≈ 44 CYD of Native Soil.

1.5 Ultraviolet Disinfection Facility

Do not apply

1.6 Septic Dump PCC Structure

1.6.1 From Section 2 item 3

$$\frac{413.5 \text{ S.F.} \times .25'}{27} \approx \underline{3.8 \text{ CYD of A.C. Pavement removal.}}$$

1.6.2 From Section 2 item 3

$$\frac{146 \text{ S.F.} \times .25'}{27} \approx \underline{1.35 \text{ CYD of PCC concrete removal.}}$$

1.6.3 Area from Septic Dump PCC Structure.

$$9.5' \times 9.5' \times 10.66' = \underline{962.10 \text{ CYD.}}$$

Total of native soil for backfill Section 6

3.8 CYD + 1.35 CYD + 962.10 CYD = 967.21 CYD X 1.20 (Shrinkage factor) ≈ 1161 CYD of Native Soil.

TOTAL OF NATIVE SOIL EXCLUDING OPERATIONAL BUILDING, INCLUDING THE 20 PERCENT FOR SHRINKAGE FACTOR.

1,233 CYD +1,168 CYD +44 CYD +1,161 CYD \approx **3,606 CYD of Native Soil to Backfill.**

2. Install 12 inches of class 2 base material in the trailer area, the area between the operational building and the new trailer, and the area surrounding the crushed rock and dump structure. Compact the class 2 base to a minimum of 95% maximum dry density in accordance with ASTM d1557. Finish grade the class 2 base using a blade or motor patrol to match the surface grade plane illustrated on 30 plan sheet. See construction keynote 3 on plan sheet 30.

$$(32' \times 37') + (13' \times 21') + (14' \times 83') + (41' \times 19.5') + (23' \times 18.5') + (10' \times 83') = (1184 \text{ C.F.} + 273 \text{ C.F.} + 1162 \text{ C.F.} + 799.5 \text{ C.F.} + 425.5 \text{ C.F.} + 830 \text{ C.F.}) = 4674 \text{ C.F.} \times 1 \text{ FT} = 4674 \text{ C.F.}$$

$$\frac{4674 \text{ C.F.} \times 135 \text{ \#/CF}}{2000 \text{ \#/TONS}} = 315.5 \times 1.20 \text{ (Shrinkage factor)} \approx \textbf{378 Tons of Class 2 Base.}$$

3. Installed a 12-foot by 60-foot trailer (bid #23255) from mobile modulars sales, featuring two small offices, a master office/meeting room, and two restrooms, or an approved equal. See construction keynote 4 on plan sheet 30.

1 EACH.

4. Install a 4-inch SDR 26 PVC sanitary sewer lateral at a 1.0% slope, from the new trailer connection point to the existing sanitary sewer manhole. Installed the 4-inch SDR 26 PVC sanitary sewer lateral per the city of imperial utility trench detail on plan sheet 29. See construction keynote 5 on plan sheet 30.

$$6 \text{ L.F.} + 62 \text{ L.F.} + 19 \text{ L.F.} = \textbf{87 L.F.}$$

5. Install a 2-inch water service line from the existing water service, located east of the operational building, to the new trailer connection point. See the city of imperial utility trench detail on plan sheet 29. See construction keynote 6 on plan sheet 30.

$$30 \text{ L.F.} + 2 \text{ L.F.} = \textbf{32 L.F.}$$

6. Install conduit and conductors from the existing operational building to the new trailer. Contractor shall determine the optimal point of electrical connection and furnish and install a circuit breaker as required to complete the connection.

Conduit routing may be modified in the field to suit actual site conditions. Refer to electrical plan sheet 19 for additional details. See construction keynote 7 on plan sheet 30.

LUMP SUM.

7. The contractor shall protect in place the existing backflow preventer and water meter box throughout the duration of construction. See construction keynote 8 on plan sheet 30.

LUMP SUM.

8. Installed 32-foot wide x 70-foot long x 6-inch deep P.C.C. slab with 6x6-6 gauge welded wire fabric placed 2.5 inches from the slab bottom. Placed 6-inch P.C.C. slab over 12 inches of Class 2 base as specified by Construction Keynote 3. See construction keynote 9 on plan sheet 30.

(32'X70') = **2240 S.F. of P.C.C. Concrete.**

Appendix C Improvement Plans

Plan Sheets 1 through 30 as prepared by The Holt Group, Inc. dated 10/24/2025.