



September 8, 2023

Ladies/Gentlemen:

**SUBJECT: REQUEST FOR QUOTATION (RFQ) 3-2828
“Heating, Ventilation, and Air Conditioning Installation Services”**

AFFILIATED AGENCIES

*Orange County
Transit District*

*Local Transportation
Authority*

*Service Authority for
Freeway Emergencies*

*Consolidated Transportation
Service Agency*

*Congestion Management
Agency*

The Orange County Transportation Authority (OCTA) requests quotes from a qualified heating, ventilation, and air conditioning firm to provide heating, ventilation, and air conditioning installation services, on an as-needed basis. The budget for this effort is \$50,000.00 for a one (1)-year term effective October 1, 2023, through September 30, 2024. This is a prevailing wage contract.

Please note that submitting a Quote, Firm certifies that it is not subject to any Ukraine/Russia related economic sanctions imposed by the State of California Or the United States, including, but not limited to, Presidential Executive Order Nos. 13660, 13661, 13662, 13685, and 14065. Any individual or entity that is the subject of any Ukraine/Russia -related economic sanction is not eligible to submit a Quote, all firms agree to comply with the economic sanctions imposed by the State or U.S. Government.

Quotes must be received at or before **11:00 a.m., September 20, 2023.**

Quotes must be sent to Susan Rosenkranz by email to srosenkranz@octa.net specifying the following on the subject line: **“RFQ 3-2828: Heating, Ventilation, and Air Conditioning Installation Services”**.

Quotes received after the date and time specified above will be rejected by the Authority and returned to the firms.

Any questions or clarifications must be in writing and be received no later than 5:00 p.m., September 12, 2023. On the Email subject line, please specify: “RFQ 3-2828 -Written Questions”. The Authority will respond to all written questions by issuing a written addendum by September 14, 2023

An award will be made to the lowest, responsive, responsible Firm on a lump sum basis. By submitting a quote, Firm agrees to the terms and conditions as stated in Exhibit D, entitled “Insurance Requirements”, Exhibit E, entitled “Health, Safety and Environmental Specifications-Level 3”, Exhibit F, entitled “Orange County Transportation Authority General Provisions”, and Exhibit G “General Wage Rates: which by this reference are incorporated herein. An award will be made to the lowest, response and responsible firm and shall be on a lump sum basis. Firms who do not bid on all line items in the Price Summary Sheet shall be deemed “Non-Responsive”, and will not be considered for award.

All firms interested in doing business with OCTA are required to register their business on-line at CAMM NET. The website can be found at <https://cammnet.octa.net/>.

Firms should be aware that an award may be made without further discussion. The successful firm will be required to comply with all applicable Equal Employment Opportunity Laws and Regulations.

If you have any questions, I can be reached at (714) 560-5610.

Sincerely,

Susan Rosenkranz

Susan Rosenkranz
Senior Buyer
Contracts Administration and Materials Management

Enclosures:

Exhibit A – Scope of Work
Exhibit B – Quotation Form
Exhibit C – Price Summary Sheet
Exhibit D – Insurance Requirements
Exhibit E – Level 3: Health, Safety and Environmental Specifications
Exhibit F – General Provisions
Exhibit G – General Wage Rates

SCOPE OF WORK

Heating, Ventilation, and Air Conditioning Installation Services

GENERAL REQUIREMENTS:

Contractor shall furnish all the necessary project management, labor, material procurement, tools, equipment, supplies, services, components, disposal, and compliance with the contract's conditions to successfully complete the replacement of existing Heating, Ventilation, and Air Conditioning (HVAC), Makeup Air Unit (MAU) and Roof-Top Unit (RTU) units per this scope of work and to the satisfaction of the Orange County Transportation Authority (OCTA). Contractor will be responsible for all rental equipment costs and insurance for each evolution. This contract is for the removal of existing, installation, and startup of the equipment only. Cost for the HVAC, MAU or RTU equipment and curb adapters will be provided by OCTA.

EXTENT OF WORK:

Contractor shall perform all necessary installation services of the new equipment including certifications of the new systems at each location when necessary. All services shall comply with the inspection and certification requirements as outlined in the Service Maintenance Manuals for each new system. Contractor shall provide a completed written report to OCTA after each installation. Work shall begin within fourteen (14) days of initial call and shall be completed within the time frame quoted Contractor and agreed upon by the OCTA Project Manager. All crane operations for the removal and installation of equipment shall be provided by the Contractor and comply with the following:

- All crane activity shall comply with 29 CFR 1926.550, CCR Title 8 standards, manufacturer's recommendations and requirements, applicable American Society of Mechanical Engineers (ASME), and the American National Standards Institute (ANSI) Standards
- Rigging scope activity shall comply with 29 CFR Subparts 1926.250, 1929.753 and Title 8 Standards
- Cranes utilized for OCTA work shall show proof of annual certification and provide a copy of the most recent quarterly inspection
- Provide a copy of each Crane Operators Qualification (NCCCO or equivalent) as required by CCR Title 8, Section 5006.1
- Provide the name and qualifications of each "Qualified Rigger" as defined by Occupational Safety and Health Administration (OSHA)
- A crane lifting plan shall be provided to the OCTA Project Manager prior to every lift

DESCRIPTION OF WORK:

The work includes but is not limited to manufacturer requirements and startup procedures of the equipment and consideration of the following should be under consideration prior to each job:

- The OCTA Project Manager will provide the information for each new HVAC, MAU or other unit to the Contractor at the onset of each new job for reference.
- Staging of new units and plan for removal of replaced equipment.

- Installation of new electrical disconnect switch and conduits to the new units.
- The re-use of and connection and proper sealant to existing ductwork
- Test and balance of supply and return to all spaces from the new unit(s) (upon request)
- Perform duct leak remediation as required in compliance with the latest Title 24 Standards and Regulations, Section 110 (upon request)
- The removal and reconnection of any smoke detector devices to the existing fire alarm systems as needed.
- Disconnection and reconnection of HVAC units to existing thermostats and controls
 - Possibility of updating thermostats for new units may be necessary if there are compatibility issues.
- When applicable, new natural gas lines shall be installed with every installation.
- When applicable, condensation drain lines shall be inspected for proper pitch and integrity, the Contractor shall provide the proper interface connection and an itemized cost for any additional charges.

CONTRACTOR QUALIFICATIONS:

Contractor shall submit proof at the time of quote due date and maintain a valid C20 Contractors license as required by the State of California. Each technician employed by Contractor and working on OCTA equipment must be California State certified for HVAC Systems and show proof that they are qualified to work on the essential electrical devices and fire alarm systems.

PREVAILING WAGES

Contractor shall comply with all applicable requirements of Division 2, Part 7, Chapter 1 of the Labor Code and all applicable federal requirements respecting prevailing wages. If there is a difference between the minimum wage rates predetermined by the Secretary of Labor and the wage rates determined by the Director of the Department of Industrial Relations (DIR) for similar classifications of labor, the Contractor and subcontractors shall not pay less than the higher wage rate. The DIR will not accept lower state wage rates not specifically included in the Federal minimum wage determination. Wage schedules are available at:
https://www.dir.ca.gov/OPRL/statistics_research.html

SCHEDULE OF WORK:

Contractor shall coordinate and schedule a specific date and time with the Facilities Maintenance Supervisor responsible for the location where work is to be performed. All work shall be accomplished in such a manner as to eliminate lengthy equipment downtime and minimize interference with OCTA operations.

PRE-STARTUP INSPECTION LIST:

Contractor shall perform a thorough inspection of the following items and submit to the OCTA Project Manager:

1. Compliance with Lock-out procedures
2. Operation and required maintenance information
3. Mounting / support system and vibration isolation
4. Seismic restraints (if required)
5. Equipment Guards

6. Belt tension and alignment
7. Lubrication
8. Ductwork clear and free of loose material
9. Proper startup filters for unit
10. Fire and balance dampers positioned properly
11. Local valving / piping for natural gas, condensate pan and drain
12. Electrical Wiring complete
13. Overload protection
14. Proper direction of all electrical components verified
15. Test disconnect switch
16. Control system / Thermostats operational and communication with the unit
17. Motor – Amperage draw from each leg while under load
18. Are vibration and noise levels of unit acceptable
19. All work areas clean of any boxes, straps, debris

OTHER REPAIRS:

If corrective maintenance and other repair services are required, the following procedures will govern such work:

- A written estimate shall be provided by the Contractor and shall include:
 - Labor cost for hours to perform the work (the hours are only paid for actual time recorded on the Verification of Work Form)
 - Itemized cost for parts for the repair or replacement of equipment
 - Itemized cost for rental equipment for the work

WARRANTY AND EMERGENCY SERVICE:

Contractor shall respond to emergency work requests immediately, beginning repairs immediately and ensuring 100% system function 100% of the time for a period of ninety (90) days upon installation of the new units. Immediate means zero time shall lapse between the time the emergency call is made and the time a technician is dispatched.

For cases in which the Scope of Work and applicable Code conflict with one another upon installation, the Code shall prevail. In cases where Code and Safety conflict with one another, the assigned Contractor shall immediately inform and consult with the OCTA Project Manager for guidance.

FINAL INSPECTION:

All work performed by the Contractor shall be inspected by the Base Facilities Maintenance Supervisor or designee, prior to departing the premises. A "Verification of Work" form (Attachment A) shall be completed and forwarded to the Section Manager, Facilities Maintenance prior to approval of any invoice for payment.

PAYMENT/INVOICING:

Invoices shall be submitted electronically by the Contractor monthly to OCTAs Accounts Payable Department at vendorinvoices@octa.net.

Each invoice shall include the following information:

1. Agreement/Purchase Order number.
2. Specify the work for which the payment is being requested.
3. Time period covered by the invoice.
4. Total monthly invoice (including cumulative invoice amount).
5. Corresponding "Verifications of Work" forms for each invoice.
6. Certification letter:
 - a. Signed by Contractor that:
 - i. The invoice is a true, complete and statement of reimbursable costs.
 - ii. The backup information included with the invoice is true, complete, and correct.
 - iii. All payments due and owing to subcontractors and suppliers have been made.
 - iv. Any other information as agreed or requested by OCTA to substantiate the validity of an invoice.

LOCATIONS:

SANTA ANA BASE 1	GARDEN GROVE BASE 4
<i>Maintenance and Service Buildings</i> Maintenance and Operations 4301 MacArthur Boulevard Santa Ana, CA 92704	<i>Maintenance and Service Buildings</i> 11790 Cardinal Circle Garden Grove, CA 92843 <i>Operations Building</i> 11800 Woodbury Road Garden Grove, CA 92843 <i>Annex Building</i> 11800 Woodbury Road Garden Grove, CA 92843

ANAHEIM BASE 6	IRVINE BASE 7 (SAND CANYON)
<i>Maintenance and Service Buildings</i> 1717 East Via Burton Anaheim, CA 92806	<i>Maintenance and Service Buildings</i> 14736 Sand Canyon Road Irvine, CA 92618 <i>Operations Building</i> 6671 Marine Way Irvine, CA 92618
	<i>IRVINE BASE 8 (Construction Circle)</i> Maintenance and Operations 16281 Construction Circle West Irvine, CA 92606



VERIFICATION OF WORK

Facilities Maintenance Contractors

☐ Administration Building (Orange)

Date: _____

☐ Anaheim (Base 6)

Time In: _____

☐ Garden Grove (Base 4)

Time Out: _____

☐ Irvine (Base 7)

☐ Santa Ana (Base 1)

☐ Brea Park & Ride

☐ Fullerton Park & Ride

☐ Fullerton Transportation Center

☐ Golden West Transportation Center

☐ Laguna Beach Transportation Center

☐ Laguna Hills Transportation Center

☐ Santa Ana Transit Terminal

☐ Newport Beach Transportation Center

Name of Contractor: _____

Description of Work: _____

This is to verify that _____ persons were on duty this date and that all services, as called
Number
for in the contract were actually performed.

Signed: _____
Contractor's Representative

Verified: _____
OCTA's Representative

QUOTATION FORM

REQUEST FOR QUOTES (RFQ): 3-2828

DESCRIPTION OF WORK: Heating, Ventilation, and
Air Conditioning Installation Services

BIDDER'S NAME AND ADDRESS _____

NAME OF AUTHORIZED
REPRESENTATIVE _____

TELEPHONE NUMBER _____

EMAIL ADDRESS _____

Blanket Purchase Order

Effective October 1, 2023 through September 30, 2024 for a one (1)-year term for the Orange County Transportation Authority requirements, on an as-needed basis, no guaranteed usage for heating, ventilation, and air conditioning duct cleaning services. Prices quoted shall remain firm for the term of the Blanket Purchase Order.

By submitting a Quote, Firm agrees to the terms and conditions as stated in Exhibit D "Insurance Requirements", Exhibit E "Level 3 Health, Safety and Environmental Specifications", and Exhibit F "Orange County Transportation Authority – General Provisions" which by this reference are incorporated herein.

Evaluation for Award

The Authority shall award to the lowest, responsive, responsible Firm.

Firm must quote all items on Exhibit C, Price Summary Sheet, or shall be deemed non-responsive.

Firm must provide as part of the quote a valid C20 Contractors license as required by the State of California.

This quotation shall remain firm for _____ days from the date of quote.
(Minimum 120)

SIGNATURE OF PERSON:
AUTHORIZED TO BIND OFFEROR

SIGNATOR'S NAME AND TITLE:

DATE SIGNED:

IF NOT QUOTING, PLEASE LIST REASON(S) BELOW

PRICE SUMMARY SHEET

Enter below the fully-burdened rates, which shall include all of the direct and indirect costs of providing the services, travel time, trip charge, overhead, freight, applicable sales tax and profits. The Authority's intention is to award a time-and-expense blanket purchase order for a one (1)-year term on an as-requested basis, hours listed are estimates only, with no guaranteed usage.

ONE-YEAR TERM: OCTOBER 1, 2023 THROUGH SEPTEMBER 30, 2024

PREVAILING WAGE RATES FOR SERVICES PER HOUR:

Fully-Burdened Hourly Labor Rates	Estimated Hours	Apprentice	Journeyman
8:00 a.m. - 5:00 p.m. Monday - Friday	70	\$	\$
5:01 p.m. - 7:59 a.m. Monday - Friday	30	\$	\$
Saturday and Sundays Any Hours	15	\$	\$
Recognized Holidays Any Hours	15	\$	\$

Mobile Crane Services/Hr \$ _____

Rental Equipment, Lifts & Forklifts/Hr \$ _____

****All parts used that are related to any repairs shall be invoiced at cost. Vendor shall provide supporting documentation to confirm the actual cost of all replaced parts. Payments are contingent upon vendor providing proof of cost.***

OCTA Recognized Holidays

New Year's Day
Memorial Day
Independence Day
Labor Day
Thanksgiving Day
Christmas

Insurance Requirements

A. Contractor shall procure and maintain insurance coverage in full force and effect during the entire term of the Agreement. Coverage shall be full coverage and not subject to self-insurance provisions. Contractor shall provide the following insurance coverage:

1. Commercial General Liability, to include Products/Completed Operations, Independent Contractors', Contractual Liability, Personal Injury Liability, and Property Damage with a minimum limit of \$1,000,000 per occurrence, \$2,000,000 general aggregate and \$2,000,000 Products/Completed Operations aggregate;

2. Automobile Liability Insurance to include owned, hired and non-owned autos with a combined single limit of \$1,000,000 for each accident;

3. Workers' Compensation with limits as required by the State of California including a Waiver of Subrogation in favor of Authority, its officers, directors and employees; and

4. Employers' Liability with minimum limits of \$1,000,000 per accident, \$1,000,000 policy limit-disease, and \$1,000,000 policy limit employee-disease.

B. Proof of such coverage, in the form of a certificate of insurance and an insurance policy blanket additional insured endorsement, designating the Authority, its officers, directors and employees as additional insureds on general liability and automobile liability, as required by Agreement. Proof of insurance coverage must be received by Authority within ten (10) calendar days from the effective date of the Agreement and prior to commencement of any work. Such insurance shall be primary and non-contributive to any insurance or self-insurance maintained by the Authority. Furthermore, Authority reserves the right to request certified copies or review all related insurance policies, in response to a related loss.

C. Contractor shall include on the face of the certificate of insurance the Blanket Purchase Order No. C32828 and, the Senior Buyer's Name, Susan Rosenkranz.

D. Contractor shall also include in each subcontract, the stipulation that subcontractor shall maintain insurance coverage in the amounts required of Contractor as provided in the Agreement. Subcontractor will be required to include Authority as additional insureds on the Commercial General Liability, and Auto Liability insurance policies.

E. Insurer must provide Authority with at least thirty (30) days' prior notice of cancellation or material modification of coverage, and ten (10) days' prior notice for non-payment of premium.

LEVEL 3 HEALTH, SAFETY AND ENVIRONMENTAL (HSE) SPECIFICATIONS

REQUIRED HSE SUBMITTAL SUMMARY

The contractor shall submit copies of the items listed below for contract scope work on OCTA projects and property. Copies shall be provided prior to contractor's mobilization onto OCTA projects and property. Contractor shall provide compliant written Health, Safety & Environmental (HSE) submittals within 30 days of the contract notice to proceed.

HSE submittals shall comply with the 1988 Drug Free Workplace Act, or the Department of Transportation (DOT), or the Federal Transportation Administration (FTA) requirements (according to OCTA procurement funding guidelines) and comply with the California Code of Regulations (CCR) Title 8 regulatory standards.

Contractor's established written programs/plans shall comply with CCR Title 8 regulatory standards. All HSE related programs/plans submitted to OCTA for acceptance shall be prepared and submitted by a qualified HSE professional who is recognized by an organization of industry standard (i.e., CSP, CIH, CHST, CHMM, etc.) and is experienced in developing compliant written HSE programs. The site safety HSE representative shall participate in the HSE submittal process.

1. Contractor shall provide a copy of Company's Injury Illness Prevention Program in accordance with CCR Title 8, Section 3203.
2. Contractor shall provide a copy of their Company HSE Policy/Procedure Manual, in compliance with CCR Title 8 Standards for awarded scope.
3. Contractor shall provide a copy of their Policy or Substance Abuse Prevention Program.
4. Contractor shall provide a copy of their Hazard Communication Program and MSDS Management Program in compliance with CCR Title 8, Section 5194, Hazard Communication Standard.
5. On-Site HSE Representative:
On Facility Modification Projects, The Contractor shall submit a resume of the designated on-site qualified HSE Representative. The HSE Representative shall possess a current certification from the Board of Certified Safety Professionals (BCSP), plus five (5) years construction or scope agreement HSE experience enforcing HSE compliance on heavy or industrial construction project sites, the last two years of which have been administering HSE in the construction or scope discipline for which the Contractor is contracting with the Authority. The designated HSE Representative shall participate in all HSE related submittals through completion of scope.

On Capital Programs, The Contractor's on-site qualified HSE Representative shall be a Certified Safety Professional (CSP) with current standing from the Board of Certified Safety Professionals (BCSP) or a Construction Health and Safety Technician (CHST) with current standing from the (BCSP) or a Certified Industrial Hygienist (CIH) with current standing from the American Board of Industrial Hygiene (ABIH), or an equal professional HSE Certificate of standing from The **National Examination Board in Occupational Safety and Health (NEBOSH)**, that is acceptable to the Authority. The Contractor's on-site HSE Representative(s) shall provide a resume and have a minimum of seven (7)

years heavy construction experience in administering HSE programs on heavy construction project sites, the last two years of which have been administering HSE in the construction/scope discipline for which Contractor is contracting with the Authority.

6. A Detailed Site Specific HSE Work Implementation Plan:
This plan shall be prepared and submitted by a recognized HSE professional experienced in developing compliant written HSE programs. Indicate the methods and procedures, and include the sequence of tasks as listed on the project schedule, include the hazards, tools and equipment, and the safe work practices to mitigate the hazards in a format acceptable OCTA. Specify safety measures in accordance with applicable Cal/OSHA standards, South Coast Air Quality Management District (SCAQMD) rules, National Fire Protection Association (NFPA), National Electric Code (NEC), American National Standards Institute (ANSI) codes and regulations, job hazard analysis, policies, procedures, HSE training requirements and known and potential hazards of Contractor's scope. Plans shall be prepared as specified above, and may require if necessary a professional engineer licensed to practice in the state of California, when so required by the provisions of the California Board for Professional Engineer and Surveyors.

PART I – GENERAL

1.0 GENERAL HEALTH, SAFETY AND ENVIRONMENTAL REQUIREMENTS

- A. The Contractor, its subcontractors, suppliers, and employees have the obligation to comply with all Authority health, safety and environmental compliance department (HSEC) requirements of this safety specification, project site requirements, and bus yard safety rules, as well as all federal, state, and local regulations pertaining to scope of work or agreements with the Authority including California Department of Transportation safety requirements and special provisions. Additionally, manufacturer requirements are considered incorporated by reference, as applicable, to this scope of work.
- B. Observance of unsafe acts or conditions, serious violation of health and safety standards, non-conformance of Authority HSEC requirements, or disregard for the intent of these safety specifications to protect people and property, by Contractor may be reason for termination of scope or agreements with the Authority, at the sole discretion of the Authority.
- C. The Authority HSEC requirements, and references contained within this scope of work shall not be considered all-inclusive as to the hazards that might be encountered. Safe work practices shall be pre-planned and performed, and safe conditions shall be maintained during the course of this work scope.
- D. The Contractor shall specifically acknowledge that it has primary responsibility to prevent and correct all health, safety and environmental hazards for which it and its employees, or its subcontractors (and their employees) are responsible. The Contractor shall further acknowledge their expertise in recognition and prevention of hazards in the operations for which they are responsible, that the Authority may not have such expertise, and is relying upon the Contractor for such expertise. The Authority retains the right to notify the Contractor of potential hazards and request the Contractor to evaluate and, as necessary, to eliminate those hazards.

- E. The Contractor shall provide all necessary tools, equipment, and related safety protective devices to execute the scope of work in compliance with the Authority's HSEC requirements, CCR Title 8 Standards, and recognized safe work practices.
- F. The Contractor shall instruct all its employees, and all associated sub-contractors under contract with the Contractor who works on Authority projects in the following; recognition, identification, and avoidance of unsafe acts and/or conditions applicable to its work.

PART II – SPECIFIC REQUIREMENTS

- 2.0 While these safety specifications are intended to promote safe work practices, Contractors are reminded of their obligation to comply with all federal (Code of Federal Regulations (CFR) Sections 1926 & 1910 Standards), state (CCR Title 8 Standards), local and municipal safety regulations, and Authority health, safety and environmental requirements applicable to their project scope. Failure to comply with these standards may be cause for termination of scope or agreements with the Authority, at the sole discretion of the Authority.

2.1 REQUIRED DOCUMENTATION / REPORTING REQUIREMENTS

The Contractor at a minimum shall provide the following documents to the Authority's Project Manager. Items A through E below shall be submitted and accepted by the Authority's Project Manager prior to Contractor mobilization. Item F upon each occurrence, and for items G through K, contractor shall verify the following documentation is in place, prior to and during contract scope and make the same available to the Authority upon request within 72 hours.

Contractor's established written programs/plans shall comply with CCR Title 8 regulatory standards. All new programs/plans shall be prepared and submitted by a qualified HSE professional who is recognized by an organization of industry standard (i.e., CSP, CIH, CHST, STS, CHMM, etc.) and is experienced in developing compliant written HSE programs. The site safety HSE representative shall participate in the scope submittal process.

- A. A Comprehensive Project Specific Health, Safety, and Environmental (HSE) Work Plan.
 - a. The Contractor shall develop a site project plan that may include, but is not limited to: Permits, Evacuation, Emergency Plan, Roles and Responsibilities, Scope and Construction Activity Details, Constructability Review, Contractor Coordination Process, Safe Work Methods, Hazard Identification & Risk Control, First Aid and Injury Management, Emergency Procedures, Public Protection, Authority and Contractor Site Rules, Incident Reporting and Investigation, Specialized Work or Licensing, Training and Orientation Requirements, Chemical Management, and Subcontractor Management.
 - b. A Detailed Site Specific HSE Implementation Plan: This plan shall be prepared and submitted by a recognized HSE professional (current BCSP Certification in good standing, i.e., CSP, CHST, OHST) experienced in developing compliant written HSE programs, acceptable to OCTA. Indicate the methods and procedures, and

include the sequence of tasks as listed on the project schedule, include the hazards, tools and equipment, and the safe work practices to mitigate the hazards in a format acceptable OCTA. Specify safety measures in accordance with applicable Cal/OSHA standards, SCAQMD rules, NFPA, NEC, ANSI codes and regulations, job hazard analysis, policies, procedures, HSE training requirements and known and potential hazards of Contractor's scope. Plans shall be prepared as specified above, and may require if necessary a professional engineer licensed to practice in the state of California, when so required by the provisions of the California Board for Professional Engineer and Surveyors.

- B. Contractor shall provide a copy of their Company HSE Policy/Procedure Manual, in compliance with CCR Title 8 Standards for awarded scope.
- C. Contractor shall provide a copy of Company's Injury Illness Prevention Program in accordance with CCR Title 8, Section 3203.
- D. Contractor shall provide a copy of their Policy or Substance Abuse Prevention Program that complies with the 1988 Drug Free Workplace Act.
- E. Contractor shall provide the resume and qualifications/certifications of assigned project designated Onsite HSE Representative for this scope as identified in section 2.3 of this specification.
- F. Accident/Incident investigation report within 24 hours of event (immediate verbal notification to Authority Project Manager, followed by Written Report).

The following required documentation shall be provided to the Authority's Project Manager, upon Authority request, within 72 hours.

- G. A copy of Contractor weekly site safety inspection report with status of corrections, upon request, within 72 hours.
- H. Contractor shall provide a copy of the Contractors and subcontractors competent person list (submit to Authority Project Manager, upon Authority request, within 72 hours).
- I. Contractors and subcontractors training records for qualified equipment operators, electrical worker certification (NFPA 70E), confined space training, HAZWOPER training, and similar personnel safety training certificates as applicable to the agreement scope and as requested by the OCTA Project Manager and/or HSEC department, upon Authority request, within 72 hours and prior to starting or during the scope activity (submit to Project Manager).
- J. A monthly report that includes number of workers on project, a list of subcontractors, work hours (month, year to date, & project cumulative) of each contractor, labor designation, OSHA Recordable injuries and illnesses segregated by medical treatment cases, restricted workday cases, number of restricted days, lost workday cases, and number of lost work days, and recordable incident rate. Contractor shall provide to the Authority, upon request, within 72 hours.

K. TRAINING DOCUMENTATION

To ensure that each employee is qualified to perform their assigned work, when applicable to scope work, Contractor shall verify training documentation is in place, prior to and during contract scope, and make available to the Authority, upon request, within 72 hours. Training may be required by the Authority or CCR Title 8 Standards and required for activity on Authority's property and/or Authority projects. Contractor shall provide to Authority, upon request, within 72 hours.

2.2 HAZARD COMMUNICATION (CCR Title 8, Section 5194)

- A. Contractor shall comply with CCR Title 8, Section 5194 Hazard Communication Standard. Prior to chemical use on Authority property and/or project work areas the Contractor shall provide to the Authority Project Manager copies of Material Safety Data Sheet (MSDS) for all applicable products used, if any.
- B. All chemicals including paint, solvents, detergents and similar substances shall comply with SCAQMD Rules 103, 1113, and 1171.

2.3 DESIGNATED HEALTH, SAFETY, ENVIRONMENTAL (HSE) REPRESENTATIVE

- A. Before beginning on-site activities, the Contractor shall designate an On-site HSE Representative. This person shall be a Competent or Qualified Individual as defined by the Occupational, Safety, and Health Administration (OSHA), familiar with applicable CCR Title 8 Standards, and has the authority to affect changes in work procedures that may have associated cost, schedule and budget impacts.
- B. The Contractor's on-site qualified HSE Representative for all Authority projects is subject to acceptance by the Authority Project Manager and the HSEC Department Manager. All contact information of the On-site HSE Representative (name, phone, and fax and pager/cell phone number) shall be provided to the Authority Project Manager.

QUALIFICATIONS – On Capital Programs, the Contractor shall submit a resume of the full time, on-site qualified HSE Representative(s) who reports directly to the Contractor's Project Manager or Superintendent, and who is responsible for HSE oversight for field operations on the project no later than ten (10) days after receipt of Notice to Proceed, and prior to mobilization. The Contractor's On-site HSE Representative(s) shall have a minimum of seven (7) years heavy construction experience in administering HSE programs on heavy construction project sites, the last two years of which have been administering HSE in the construction discipline for which Contractor is contracting with the Authority. The Contractor's On-site HSE Representative shall be a Certified Safety Professional (CSP) with current standing from the Board of Certified Safety Professionals (BCSP), or a Construction Health and Safety Technician (CHST) with current standing from the BCSP or a Certified Industrial Hygienist (CIH) with current standing from the **American Board of Industrial Hygiene (ABIH)**, or an equal professional HSE Certificate of standing from The **National Examination Board in Occupational Safety and Health (NEBOSH)**, that is acceptable to the Authority. The Contractor's On-site HSE Representatives(s) shall be on site during all operational hours. The On-site HSE Representative(s) shall set up,

carry forward and aggressively and effectively maintain the project specific safety program and IIPP covering all phases of the work. If at any time the Contractor wishes to replace their On-site HSE Representative(s), the Contractor must provide written notice thirty (30) days prior to change of personnel to the Authority. The Contractor shall take all precautions and follow all procedures for the safety of, and shall provide all protection to prevent injury to, all persons involved in any way in the scope work and all other persons, including, without limitation, the employees, agents, guests, visitors, invitees and licensees of the Authority who may be involved. This requirement applies continuously and is not limited to normal working hours. The designated HSE Representative shall participate in all HSE related submittals. The Authority reserves the right to allow for an exception to modify these minimum qualification requirements for unforeseen circumstances, at the sole discretion of the Authority Project Manager and HSEC Department Manager.

On Facility Modification Projects, the Contractor shall submit a resume of the full time qualified on-site HSE Representative who reports directly to the Contractor's Project Manager or Superintendent, and who is responsible for safety oversight for field operations on the project no later than ten (10) days after receipt of Notice to Proceed, and prior to mobilization. The Contractor's On-Site HSE Representative shall hold a current certification from the BCSP, plus five (5) years construction or scope HSE experience enforcing HSE compliance on heavy construction or industrial construction project sites, the last two years of which have been administering HSE in the construction or scope discipline for which Contractor is contracting with the Authority. The Contractor's On-site HSE Representative(s) shall be on site during all operational hours. The designated HSE Representative shall participate in all HSE related submittals. The Authority reserves the right to allow for an exception and to modify these minimum qualification requirements for unforeseen circumstances, at the sole discretion of the Authority Project Manager and HSEC Department Manager.

1. Capital Programs may include, but are not limited to, projects involving demolition and construction of; heavy construction, rail projects, highway projects, parking lots and structures, fuel stations, building construction, facility modifications, bus base construction, EPA/DTSC remediation, AQMD air or soil monitoring, fuel tank removal or modification, major bus base modifications, handling potential hazardous waste projects, and similar projects as deemed a Capital Program at the sole discretion by the Authority.
2. Facility Modification Projects may include, but are not limited to, projects involving minor demolition and construction or improvement projects for transportation centers, bus base sites and/or building modifications, equipment and/or building upgrades, and similar projects as deemed a Facility Modification Project at the sole discretion by the Authority.
3. Competent Individual means an individual who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees and/or property, and who has authorization to take prompt corrective measures to eliminate them.
4. Qualified Individual means an individual who by possession of a recognized degree, certificate, certification or professional standing, or who by extensive

knowledge, training, and experience, has successfully demonstrated his/her ability to solve or resolve problems relating to the subject matter, the work, or the project.

- C. The Contractor shall designate a Competent Individual for each task, as required by Cal-OSHA standards or laws. The task Competent Individual shall be responsible for the prevention of accidents. If the Authority or any public agency with jurisdiction notifies the Contractor of any claimed dangerous condition at the site that is within the Contractor's care, custody or control, the Contractor shall take immediate action to rectify the condition at no additional cost to the Authority. The Contractor shall be responsible for the payment of all fines levied against the Authority for deficiencies relating to the Contractor's supervision or conduct and/or control of the scope agreement.
- D. On Facility Modification Projects, the Authority Project Manager reserves the right to require the Contractor to provide one additional full-time safety representative with qualifications as identified in section 2.3 (C), above whenever the number of individuals from the Contractor, its subcontractors, suppliers, and vendors meets or exceeds 15 workers, there are multiple scope work sites, or as warranted by the scope of work at the sole discretion by the Authority.
- E. On Capital Programs, the Authority's Project Manager reserves the right to require the Contractor to provide one additional full-time safety representative with qualifications as identified in item 2.3 (C) above whenever the number of individuals from the Contractor, its subcontractors, suppliers, and vendors meets or exceeds 50 workers, or is warranted by the scope of work.

2.4 SITE HSE ORIENTATION

The Contractor shall conduct and document a project site safety orientation for all Contractor personnel, subcontractors, suppliers, vendors, and new employees assigned to the project prior to performing any work on Authority projects, a copy of the HSE orientation attendance list shall be provided to the Authority Project Manager. The safety orientation, at a minimum, shall include, as applicable, Personal Protection Equipment (PPE) requirements, eye protection, ANSI class 2 reflective vests, designated smoking, eating, and parking areas, traffic speed limit and routing, cell phone policy, and barricade requirements. When required by scope, additional orientation shall include fall protection, energy isolation lock-out/tag-out (LOTO), confined space, hot work permit, security requirements, and similar project safety requirements.

2.5 INCIDENT NOTIFICATION AND INVESTIGATION

- A. The Authority shall be promptly notified of any of the following types of incidents:
 - 1. Damage to Authority property (or incidents involving third party property damage);
 - 2. Reportable and/or recordable injuries (as defined by the U. S. Occupational Safety and Health Administration);
 - 3. Incidents impacting the environment, i.e. spills or releases on Authority property.

- B. Notifications shall be made to Authority representatives, employees and/or agents. This includes incidents occurring to contractors, vendors, visitors, or members of the general public that arise from the performance of Authority contract work. An initial immediate verbal notification, followed by a written incident investigation report shall be submitted to Authority's Project Manager within 24 hours of the incident.

A final written incident investigative report shall be submitted within seven (7) calendar days, and include the following information. The current status of anyone injured, photos of the incident area, detailed description of what happened, the contributing factors that led to the incident occurrence, a copy of the company policy or procedure associated with the incident and evaluation of effectiveness, copy of the task planning documentation, copy of the Physician's first report of injury, updated OSHA 300 Log, and the corrective action initiated to prevent recurrence. This information shall be considered the minimum elements required for a comprehensive incident report acceptable to OCTA.

- C. A Serious Injury, Serious Incident, OSHA Recordable Injury / Illness, or Significant Near Miss shall require a formal incident review at the discretion of the Authority's Project Manager. The incident review shall be conducted within seven (7) calendar days of the incident. This review shall require a senior executive from the Contractors' organization to participate in the presentation. The serious incident presentation shall include action taken for the welfare of the injured, a status report of the injured, causation factors leading to the incident, a root cause analysis, and a detailed recovery plan that identifies corrective actions to prevent a similar incident, and actions to enhance safety awareness.

1. Serious Injury: includes an injury or illness to one or more employees, occurring in a place of employment or in connection with any employment, which requires inpatient hospitalization for a period in excess of twenty-four hours for other than medical observation, or in which an employee suffers the loss of any member of the body, or suffers any serious degree of physical disfigurement.
2. Serious Incident: includes property damage of \$500.00 or more, an incident requiring emergency services (local fire, paramedics and ambulance response), news media or OCTA media relations response, and/or incidents involving other agencies (Cal/OSHA, EPA, AQMD, DTSC, etc.) notification or representation.
3. OSHA Recordable Injury / Illness: includes and injury / illness resulting in medical treatment beyond First Aid, an injury / illness which requires restricted duty, or an injury / illness resulting in days away from work.
4. Significant Near Miss Incident: includes incidents where no property was damaged and no personal injury sustained, but where, given a slight shift in time or position, damage and/or injury easily could have occurred.

2.6 REGULAR INSPECTIONS & THIRD PARTY INSPECTIONS

- A. Frequent and regular inspections of the project jobsite shall be made by the Contractor's On-site HSE Representative, or another Competent Individual designated by the Contractor. Unsafe acts and/or conditions noted during inspections shall be corrected immediately.

- B. The Contractor is advised that representatives of regulatory agencies (i.e., CAL-OSHA, EPA, SCAQMD, etc.), upon proper identification, are entitled to access onto Authority property and projects. The Authority Project Manager shall be notified of their arrival as soon as possible.

2.7 ENVIRONMENTAL REQUIREMENTS

- A. The Contractor shall comply with Federal, State, county, municipal, and other local laws and regulations pertaining to the environment, including noise, aesthetics, air quality, water quality, contaminated soils, hazardous waste, storm water, and resources of archaeological significance. Expense of compliance with these laws and regulations is considered included in the agreement. Contractor shall provide water used for dust control, or for pre-wetting areas to be paved, as required; no payment will be made by OCTA for this water.
- B. The Contractor shall prevent pollution of storm drains, rivers, streams, irrigation ditches, and reservoirs with sediment or other harmful materials. Fuels, oils, bitumen, calcium chloride, cement, or other contaminants that would contribute to water pollution shall not be dumped into or placed where they will leach into storm drains, rivers, streams, irrigation ditches, or reservoirs. If operating equipment in streambeds or in and around open waters, protect the quality of ground water, wetlands, and surface waters.
- C. The Contractor shall protect adjacent properties and water resources from erosion and sediment damage throughout the duration of the contract. Contractor shall comply with applicable NPDES permits and Storm Water Pollution Prevention Plan (SWPPP) requirements.
- D. Contractor shall comply with all applicable EPA, Cal EPA, Cal Recycle, DTSC, SCAQMD, local, state, county and city standards, rules and regulations for hazardous and special waste handling, recycling and/ disposal. At a minimum, Contractor shall ensure compliance where applicable with SCAQMD Rule 1166, CCR Title 8, Section 5192, 29 CFR Subpart 1910.120, 49 CFR Part 172, Subpart H, 40 CFR Subpart 265.16 and CCR Title 22 Section 6625.16. Contractor shall provide OCTA a schedule of all hazardous waste and special or industrial waste disposal dates in advance of transport date. Only authorized OCTA personnel shall sign manifests for OCTA generated wastes. Contractor shall ensure that only current registered transporters are used for disposal of hazardous waste and industrial wastes. The Contractor shall obtain approval from OCTA for the disposal site locations in advance of scheduled transport date.
- E. If the Contractor encounters on the site material reasonably believed to be asbestos, polychlorinated biphenyl (PCB) or other Hazardous Substance (as defined in California Health and Safety Code, and all regulations pursuant thereto) which has not been rendered harmless, the Contractor shall immediately stop work in that area affected and report the condition to the Authority in writing. The work in the affected area shall not thereafter be resumed except by written agreement of the Authority and Contractor if in fact the material is asbestos or polychlorinated biphenyl (PCB) or other hazardous substance and has not been rendered harmless. The work in the affected area shall be resumed in the absence of asbestos or polychlorinated biphenyl (PCB)

or other hazardous substance, or when it has been rendered harmless, by written agreement of the Authority and the Contractor, or in accordance with a final determination by an Environmental Consultant employed by the Authority.

- F. The Contractor shall not permit any hazardous substances to be brought onto or stored at the Project Site or used in the construction of the work, except for specified materials and commonly used construction materials for which there are no reasonable substitutes. All such materials shall be handled in accordance with all manufacturers' guidelines, warnings and recommendations and in full compliance with all applicable laws. All notices required to be given with respect to such materials shall be given by the Contractor. The Contractor shall not intentionally release or dispose of hazardous substances at the Project Site or into the soil, drains, surface or ground water, or air, nor shall the Contractor allow any Sub-Contractor, subcontractor or supplier or any other person for whose acts the Contractor or any subcontractor, vendor or supplier may be liable, to do so. For purposes of Contract Documents, "hazardous substance" means any substance or material which has been determined or during the time of performance of the work is determined to be capable of posing a risk of injury to health, safety, property or the environment by any federal, state or local governmental authority.

2.8 VEHICLE AND ROADWAY SAFETY REQUIREMENTS

- A. The Contractor shall ensure that all Contractor vehicles, including those of its subcontractors, suppliers, vendors and employees are parked in designated parking areas, are identified by company name and/or logo, and comply with traffic routes, and posted traffic signs in areas other than the employee parking lots.
- B. Personal vehicles belonging to Contractor employees shall not be parked on the traveled way or shoulders including any section closed to public traffic, or areas of the community that may cause interference or complaints
- C. The Contractor shall comply with California Department of Transportation safety requirements and special provisions when working on highway projects.
- D. The Contractor shall conform to American Traffic Safety Services Association (Quality Standard for Work Zone Control Devices 1992).

2.9 LANGUAGE REQUIREMENTS

For safety reasons, the Contractor shall ensure employees that do not read, or understand English, shall be within visual and hearing range of a bilingual supervisor or responsible designee at all times when on the Authority property or projects.

2.10 PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING

Contractors, and all associated subcontractors, vendors and suppliers are required to provide their own personal protective equipment (PPE), including eye, head, foot, and hand protection, respirators, reflective safety vests, and all other PPE required to perform their work safely on Authority projects.

- A. RESPIRATORS (CCR Title 8, Section 5144) - The required documentation for training and respirator use shall be provided to the Authority's Project Manager upon request within 72 hours. All compliance documentation as required by CCR Title 8, Section 5144, Respiratory Protective Equipment.
 - B. EYE PROTECTION – The Authority requires eye protection on construction projects and work areas that meet ANSI Z-87.1 Standards.
 - C. BUS BASE – Minimum PPE required includes but is not limited to; Eye protection, class 2 reflective vest, steel toe or construction type footwear that meets ANSI Z41 1991 are recommended.
 - D. CONSTRUCTION PROJECTS - Minimum PPE required includes but is not limited to; hard hat, eye protection, hand protection, class 2 reflective vest, safety toe footwear that meets ANSI Z41 1991 are recommended.
 - E. HARD HATS: Approved hard hat that meet ANSI Z89. 1 (latest revision). Hard hats should be affixed with the company/agency logo and/or name. The bill shall be worn forward. Metal hard hats and cowboy style are forbidden on Authority projects.
 - F. FOOTWEAR: Enclosed leather that covers the ankles, such as a construction type boot. Employees shall not wear casual dress shoes, open toe, sneakers, sandals, canvas-type shoes, or other shoes that have thin soles or heels that are higher than normal in construction work areas. Safety toe footwear that meets ANSI Z41 1991 are recommended on construction sites and in operating facilities.
 - G. CLOTHING/SHIRTS: minimum or waist length shirts with sleeves (4" minimum).
 - H. CLOTHING/TROUSERS: Cover the entire leg. If flare-legged trousers are worn, the trouser bottoms must be tied to prevent catching. No sweat pants, or trousers with holes.
- 2.11 AERIAL DEVICES (CCR Title 8, Section 3648)
- Aerial devices are defined in CCR Title 8 as any vehicle-mounted or self-propelled device, telescoping extensible or articulating, or both, which is primarily designed to position personnel. If aerial devices are to be used, the required documentation in CCR Title 8, Section 3648 shall be provided to the Authority's Project Manager, upon request, within 72 hours.
- 2.12 CONFINED SPACE ENTRY (CCR Title 8, Section 5157)
- Before any employee will be allowed to enter a confined space, the required documentation as required by CCR Title 8, Section 5157 shall be provided to the Authority's Project Manager, upon request, within 72 hours.
- A. RECOMMENDED: a copy of the most recent calibration record for each air monitoring unit, 3-gas monitor or "sniffer" to be used by the Entry Supervisor prior to entering permit-required confined spaces.

2.13 CRANES

A. Crane activity shall comply with 29 CFR 1926.550, CCR Title 8 Standards, manufacture's recommendations and requirements, applicable American Society of Mechanical Engineers (ASME), and ANSI Standards. In addition, Contractor shall comply with the following requirements: Prior to using mobile cranes, the Contractor shall provide to the Authority Project Manager, items 1, 2 & 3 of the following documentation a minimum of seven (7) days prior to activity, and item 4 on each day of crane activity.

1. Cranes require a submittal of the annual certification, and copy of the cranes most recent quarterly inspection.
2. A copy of each crane operator's qualification (NCCCO or equivalent) of company-authorized crane operators that have been properly trained in the equipment's use and limitations. Operator certification as required by CCR Title 8, Section 5006.1.
3. A rigging plan is required for all lifts. Critical lifts require an engineered plan designed by a registered professional engineer licensed in the State of California.
4. Contractor shall provide the name and qualifications of each "Qualified Rigger" as defined by OSHA.
5. Rigging scope activity shall comply with 29 CFR Subparts 1926.250, 1929.753 and CCR Title 8 Standards.
6. All rigging equipment shall be free from defects, in good operating condition and maintained in a safe condition.
7. Rigging equipment shall be inspected by a designated, competent employee prior to initial use on the project, prior to each use, and documented inspections performed regularly. Records shall be kept on jobsite of each of these inspections by contractor and be made available to the Authority upon request within 72 hours.
8. Only one (1) sling eye should be in a hook, for multiple slings a shackle shall be used to prevent separation of slings, and prevent stress on weak points of the hook.
9. Contractor shall prepare a documented daily crane inspection report.

B. Pick and carry with rubber tired cranes is forbidden on Authority projects.

C. Engineered Critical Lifts

A critical lift is established where any one of the following conditions are created:

1. Where in the crane's current configuration at any point during the lift, a gross load weight exceeds 75% of the capacity of the crane.
2. A gross weight equal to, or greater than 10 tons.
3. Lifts over buildings, equipment, public roadways, structures, or power lines.

4. A single lift where two or more cranes are used, including tandem lifts and tailing cranes.
5. Lifts made in close proximity of power lines, as defined by CCR Title 8 voltage clearance specifications.
6. Lifts involving helicopters, and specialized or unique and complex rigging equipment.
7. Hoisting of suspended work platforms.
8. Static tower crane erection and dismantlement.
9. Making lifts below the ground level where the crane is positioned.
Note: Where the below the ground lift is minimal (evaluated by California registered professional engineer), a critical lift plan may not be required.

D. Critical Lift Plan

Where a critical lift will be performed, a written critical lift plan shall be submitted to the Authority Project Manager prior to commencing with the lift. The written plan shall include the following:

1. Crane manufacturer, capacity, and all specifications for the configuration to be used for the lift.
2. Load chart data for the crane to be used to make the lift. Total calculated weight of the load to be lifted including all rigging and other deductions consistent with the manufacturer's load chart.
3. Engineering data shall be provided on the hook assembly (manufacturer's certification or independent laboratory testing and load testing within the past 60 days), below-the hook rigging, and all specialized below-the-hook lifting devices.
4. Diagrams of the lift that provides geometrical conditions of the load, rigging, and all crane positions during the lift. The drawing shall provide the following:
 - A. Locations of all components to be lifted prior, during and after the lift is completed.
 - B. Radius points.
 - C. Swing patterns.
 - D. In the event that the lift must be aborted, positions where the load may be safely landed.
 - E. Areas where any personnel, public, and vehicles must be evacuated during the lift.

5. Potential ground loading for each point of contact by the crane in selected locations in which the crane will perform the critical lift.
6. Soil and subsurface data and information pertaining to the location on which the crane used for the critical lift will be positioned. This information shall be procured from an authoritative source such as a geotechnical engineer or a professional civil engineer registered in the state of California.

Note: *This information may be available from the Authority for selected locations on some projects.*

7. An engineer shall use the data provided in #5 and #6 above to verify and confirm the following:
 - A. That the soil and subsurface conditions are capable of supporting all loads imposed during the critical lift.
 - B. That the designs of cribbing and other supports used under the crane load points are appropriate to safely transfer such loads.
8. Signature and stamp on the plan by a California registered professional engineer, evidencing review of the plan as meeting the requirements that all loads and load information and calculations contained in the plan are approved, acceptable and safe to perform.
9. Operator qualifications.
10. Method by which communication will be provided to the crane operator. (Designated signal person, two-way radio, hard wire phone system, etc.).
11. A critical lift hazard analysis which identifies the particular hazards (including weather, wind, obstructions, etc.) associated with the lift and the means and methods to reduce, mitigate, or eliminate the hazards.
12. Emergency action plan.
13. Documentation of lift and pre-job meeting shall be conducted by Contractor's Project Manager.

The written plan shall be submitted 7 days prior to any critical lift for review by the Authority Project Manager and the Authority HSEC department. No critical lifts shall be conducted prior to such review.

E. OVERHEAD CRANES

Before using the Authority overhead cranes, each Contractor shall designate a limited number of employees to attend a training session on the use and limitations of overhead cranes with designated Authority personnel.

2.14 DEMOLITION OPERATIONS (CCR Title 8, Section 1734)

Before starting demolition activities the required documentation shall be provided to the Authority's Project Manager, upon request, within 72 hours. Contractor shall provide all compliance documentation as required by CCR Title 8 Article 31.

- A. The Contractor shall be responsible for visiting and examining the project site to assess and personally determine the extent of demolition, associated work, debris removal, disposal and general work to be done under this section.
- B. The Contractor shall take possession of all demolished materials, except as noted otherwise in the Contract Documents, and be responsible for disposing of them in accordance with applicable laws and regulations. On-site burning or burial of demolition materials will not be permitted.
- C. Provide continuous noise and dust abatement as required, preventing disturbances and nuisances to the public, workers, and the occupants of adjacent premises and the surrounding areas. Dampen areas affected by demolition operation as necessary to prevent dust nuisance.
- D. Site demolition plan: Indicate methods, procedures, equipment, and structures to be employed. Specify safety measures in accordance with applicable codes including signs, barriers, and temporary walkways. Plans shall be prepared by a qualified person (CSP, CIH, CHST, CHMM, etc.), or as necessary by a professional engineer licensed to practice in the State of California, when so required by the provisions of the California Board for Professional Engineer and Surveyors.
- E. Equipment, haul routes, and disposal sites to be used in the demolition and disposal work. Copy of manifests showing delivery of disposed materials in accordance with the plan and permit conditions. Certification that all demolished materials removed from the site have been disposed of in accordance with applicable laws and regulations.

2.15 EXCAVATION OPERATIONS (CCR Title 8, Section 1541)

Before starting excavation activities more than 5 feet deep into which people shall enter, the required documentation shall be provided to the Authority's Project Manager, upon request, within 72 hours. All compliance documentation shall comply with the following CCR Title 8, Section 1541 requirements:

- A. A copy of the Contractor's Excavation Permit.
- B. Attention is directed to the applicable sections of the Labor Code concerning trench excavation safety plans, "Trench Safety." Excavation for any trench 5 feet or more in depth shall not begin until the Contractor has received approval from the Engineer of the Contractor's detailed plan for worker protection from the hazards of caving ground during the excavation of that trench and any design calculations used in the preparation of the detailed plan. Excavations 20 feet or greater shall be engineered and plan stamped by a California registered professional engineer.

- C. The detailed plan shall show the details of the design of shoring, bracing, sloping or other provisions to be made for worker protection during the excavation. No plan shall allow the use of shoring, sloping or a protective system less effective than that required by the Construction Safety Orders of the Division of Occupational Safety and Health. If the plan complies with the shoring system standards established by the Construction Safety Orders, the plan shall be submitted at least five (5) days before the Contractor intends to begin excavation for the trench.
- D. Excavations and trenches shall be inspected by a "Competent Person" daily and after every rainfall to determine if they are safe. Daily inspections shall be recorded. Documentation is to be kept on site and available for review upon request.
- E. Excavations are considered class 'C' soil unless documented testing in accordance with 29 CFR Subpart P, Section 1926.650 and CCR Title 8 Standards supports a class 'B' soil classification and is confirmed and stamped by a California registered professional engineer. In no case will excavations be classified as class 'A' soil.

2.16 FALL PROTECTION (CCR Title 8, Sections 1669-1671)

The following standards are required when performing work on Authority property. The required documentation shall be provided to the Authority's Project Manager, upon request, within 72 hours.

- A. Fall protection is required for workers exposed to falls in excess of six (6) feet.
- B. When conventional fall protections methods are impractical or create a greater hazard, a written plan in conformance with CCR Title 8, Article 24, shall be submitted to the Authority a minimum of seven (7) days in advance of the scheduled activity.

2.17 FORKLIFTS, BACKHOES AND OTHER INDUSTRIAL TRACTORS (CCR Title 8, Section 3664)

CCR Title 8 defines backhoes as "industrial tractors". All compliance documentation shall be provided as required by CCR Title 8, Section 3664. The following required documentation shall be provided to the Authority's Project Manager, upon request, within 72 hours:

- A. A copy of each operator's certificate or a list of company-authorized industrial tractor operators that have been properly trained in the equipment's use and limitations. Please state which equipment, and model each operator has been authorized to operate (i.e. forklifts, backhoe, bulldozer, front-end loader, etc.).

2.18 ELECTRICAL OPERATIONS

HIGH VOLTAGE (CCR Title 8, Sections 2700-2974)

Any work on electrical equipment defined by OSHA as high-voltage, at or above 600 volts, requires specialized training certifications and personal protective equipment. Before any high-voltage work commences, the Authority Project Manager must be notified and must provide approval. The following required NFPA 70E certification and a certificate of training

from a recognized organization of a two day high voltage safety training course shall be provided to the Authority's Project Manager, upon request, within 72 hours:

- A. A list of the name(s) of the company-designated high voltage Qualified Electrical Worker(s)

LOW VOLTAGE (CCR Title 8, Sections 2299-2599)

Only qualified persons shall work on electrical equipment or systems.

- A. Electrical Certification of Training; Contractor employees working on or around electrical panels, wiring, motors, electrical energy sources or similar electrical devices shall have attended a NFPA 70E, Electrical Safety Course and provide to the OCTA Project Manager a copy of employees' NFPA 70E qualification certificate of training for each employee assigned to electrical tasks on OCTA property or projects.

2.19 POWDER-ACTUATED TOOLS (CCR Title 8, Section 1685)

Before using tools such as "Hilti guns" or other powder-actuated tools, the following required documentation shall be provided to the Authority's Project Manager, upon request, within 72 hours.

- A. A copy of each qualified person's valid operator card.

2.20 SCAFFOLDS (CCR Title 8, Sections 1635.1-1677)

Scaffold erection shall be in compliance with CCR Title 8 Standards. All compliance documentation shall be provided as required by CCR Title 8, Sections 1635.1-1677. In addition, the Contractor shall comply with the following additional requirements.

- A. All scaffolds on Authority project shall be inspected by a competent person qualified for scaffolds in accordance with CCR Title 8 Standards.
- B. Contractor shall arrange for a third party inspection, at least quarterly, by a credentialed professional (insurance carrier, scaffold manufacturer representative, or similar) in addition to the contractors daily self inspections.
- C. A proper scaffold inspection and tagging system shall be maintained identifying compliance status (Example: Green/safe, Yellow/modified-fall protection required, Red/unsafe-do not use).
- D. Contractor shall have a fall protection plan that meets CCR Title 8 Standards for scaffold erectors, an erection/dismantling plan shall be submitted to Authority Project Manager for review prior to start of activity.
- E. Scaffold erection/dismantling shall install handrails beginning on the first level above ground erected, and erectors shall plan erection and dismantling in a manner to maximize handrail protection and minimize employees at unprotected areas.

2.21 WARNING SIGNS AND DEVICES

Signs, signals, and/or barricades shall be visible at all times when and where a hazard exists. Overhead tasks, roofing tasks, excavations, roadwork activity, demolition work, and other recognized hazards shall have guardrail protection, warning barricades, or similar protective measures acceptable to the Authority's Project Manager. Signs, signals, and/or barricades shall be removed when the hazard no longer exists.

2.22 STEEL ERECTION

Steel Erection scope activity shall comply with 29 CFR Subpart R, Section 1926.750, and CCR Title 8 Standards. In addition to OSHA Standards, Contractor shall comply with the following requirements.

- A. Erection planning should incorporate installation methods using aerial devices (man-lifts) and elevated work platforms (scissor lift) to minimize fall hazards of climbing steel where possible. A detailed written job safety analysis (JSA) shall identify installation methods, equipment, and control methods to minimize potential fall hazards.
- B. The Contractor shall not allow any employee to walk the steel unprotected from falls. Contractor employees must be tied-off and "coon" the beam until safety cables are provided to which employees shall use 100% tie-off protection. Two lanyards are required to ensure 100% tie-off protection.
- C. A safe means of access to the level being worked shall be planned. Climbing and sliding down columns are not considered safe access and are forbidden on Authority projects.
- D. A qualified rigger shall inspect the rigging prior to each shift and each lift.
- E. Multiple lift rigging (Christmas Treeing) lifts are forbidden on Authority property and controlled projects.

2.23 AUDITS

- A. The Authority may make periodic patrols of the project site as a part of its normal security and safety program. The Contractor shall not be relieved of its aforesaid responsibilities and the Authority shall not assume same, nor shall it be deemed to have assumed, any responsibility otherwise imposed upon the Contractor, as a result of safety patrols by the Authority.
- B. The Authority may audit the Contractor's safety program for HSE compliance at various intervals of the project, at the sole discretion of the Authority. Elements may include, but are not limited to: OSHA injury & illness records and logs, Job Safety Analysis and safety plans, equipment operator licenses and training records, incident reports, meeting minutes, engineered plans, safety meeting records, crane and rigging plans, equipment inspection records, qualifications of and interviews with key Contractor management personnel, and other similar information. The Contractor shall support and cooperate with these audits at no additional compensation or schedule impacts with this contract.

2.24 RAILWAY SAFETY PRECAUTIONS

- A. Work on operating railways shall be in compliance with 49 CFR, Part 214, CCR Title 8 Standards, and the Southern California Regional Rail Authority (SCRRA).
- B. New construction rail projects require that all employers and contractors are responsible to assure employees are trained and understand on-track safety procedures, and follow roadway worker rules identified in 49 CFR, Part 214, CCR Title 8, SCRRA, the California Department of Transportation (CalTrans), and OCTA HSE Construction Management Requirements (i.e., item E references).
- C. Minimum PPE for workers include hard hat, safety glasses, orange (i.e., rail company approved color) class 2 reflective vest, safety toe footwear that meets ANSI Z41 1991 (lace-up type over the ankle) and hearing protection (on person and worn as necessary).

2.25 FINES

The Contractor shall be responsible for the payment of all fines levied against the Authority for HSE violations arising from or related to activities over which Contractor has responsibility per the contract..

2.26 COMPLIANCE COSTS

Compliance with Health, Safety and Environmental Compliance identified in these aforementioned Authority Safety Specifications shall be at the expense of the Contractor, and included in Bid Documents to the Authority for the Contractor's scope. The Authority shall incur no additional cost or schedule impacts by Contractor, for compliance with California Construction Safety Orders, CCR Title 8 Standards, Federal OSHA Standards, and the Authority Safety Specifications for the protection of persons and property.

2.27 REFERENCES

- A. CCR Title 8 Standards (Cal/OSHA)
- B. CFR Including 1910 and 1926 Standards
- C. NFPA, NEC, ANSI, NIOSH Standards
- D. USACE ***Construction Quality Management Manuel (EM-385-1-1)***
- E. Construction Industry Institute (CII)
- F. OCTA Construction Management Procedures Manual
- G. OCTA Yard Safety Rules

END OF DOCUMENT

Orange County Transportation Authority - GENERAL PROVISIONS

1. **INSPECTION AND ACCEPTANCE** - All items are subject to final inspection and acceptance by AUTHORITY at destination notwithstanding any payment, passage of title, or prior inspection or test at SELLER's facilities. Final inspection will be made within a reasonable time after receipt of items hereunder. SELLER shall notify AUTHORITY of any known nonconforming product that is expected to be delivered or has been delivered. AUTHORITY shall have authority to approve or refuse identified nonconforming product. Defective goods may be returned at SELLER's expense.
2. **CHANGES** - By written notice or order, AUTHORITY may, from time to time, order work suspension and/or make changes in quantities, drawings, designs, specifications, place of delivery or delivery schedules, methods of shipment and packaging, and property and services furnished by SELLER. If any such change causes an increase or decrease in the price of this agreement or in the time required for its performance, SELLER or AUTHORITY shall promptly notify the other party thereof and assert its claim for adjustment within thirty (30) days after the change is ordered, and an equitable adjustment shall be made. However, nothing herein shall excuse SELLER from proceeding immediately with the agreement as changed.
3. **DEFAULT AND EXCESS REPROCUREMENT LIABILITY** - AUTHORITY may terminate this agreement if a federal or state proceeding for the relief of debtors is undertaken by or against SELLER, or if SELLER makes an assignment for the benefit of creditors, or if SELLER fails after reasonable notice by AUTHORITY to cure a deficiency in performance or lack of progress thereto. AUTHORITY shall have such additional remedies as may be available whether or not it so terminates this agreement, including, but not limited to, payment by SELLER to AUTHORITY of expenses incurred by AUTHORITY in reprocurring elsewhere the same or similar items or services defaulted by SELLER hereunder, provided SELLER's reprocurement expenses obligation shall be limited to the excess costs above the price specified herein for such items or services.
4. **INDEMNIFICATION** - SELLER shall indemnify, defend, and hold harmless AUTHORITY from and against any and all claims (including attorneys' fees and reasonable expenses for litigation or settlement) for any loss, damage, claim, or harm for bodily injuries, including death or damage to property caused by SELLER or its employees, subcontractors, or suppliers in connection with the performance of this agreement.
5. **ASSIGNMENTS AND SUBCONTRACTS** - Neither this agreement nor any interest herein nor claim hereunder may be assigned by SELLER, either voluntarily or by operation of law, nor may all or substantially all of the agreement be subcontracted by SELLER without AUTHORITY's prior written consent. AUTHORITY's withholding of consent shall not be deemed to relieve SELLER of its obligations to comply fully with the requirements hereof.
6. **FEDERAL, STATE, AND LOCAL LAWS** - SELLER warrants that, in the performance of this agreement, it shall comply with all applicable Federal, State and local laws and ordinances and all lawful orders, rules and regulations thereunder.
7. **INFRINGEMENT INDEMNITY** - In lieu of any other warranty by AUTHORITY or SELLER against infringement, statutory or otherwise, it is agreed that SELLER shall defend, at its expense, any claim or suit against AUTHORITY based on a claim that any item furnished under this agreement or the normal use or sale thereof infringes any United States Letters patent or copyright, and SELLER shall pay all costs and damages finally awarded in any such suit or claim, provided that SELLER is notified in writing of the suit or claim and given authority, information, assistance at SELLER's expense for the defense of same. If the use or sale of said item is enjoined as a result of such suit, SELLER, at no expense to AUTHORITY, shall obtain for AUTHORITY the right to use and sell said item, or shall substitute an equivalent item acceptable to AUTHORITY, and extend this patent indemnity hereto.
8. **TITLE AND RISK OF LOSS** - Unless otherwise provided in this agreement, SELLER shall have title to and bear the risk of any loss of or damage to the items purchased hereunder until they are delivered in conformity with this agreement at the F.O.B. point specified herein, and upon such delivery, title shall pass from SELLER, and SELLER's responsibility for loss or damage shall cease, except for loss or damage resulting from SELLER's negligence. Passing of title upon such delivery shall not constitute acceptance of the item by AUTHORITY.
9. **NOTICE OF LABOR DISPUTE** - Whenever SELLER has knowledge that any actual or potential labor dispute may delay this agreement, SELLER shall immediately notify and submit all relevant information to AUTHORITY. SELLER shall insert the substance of this entire clause in any subcontract hereunder as to which a labor dispute may delay this agreement. However, any subcontractor need give notice and information only to its next higher-tier subcontractor.

10. **EQUAL EMPLOYMENT OPPORTUNITY** - In connection with the execution of this agreement, the SELLER shall not discriminate against any employee or applicant because of race, religion, color, sex or national origin. The SELLER shall take affirmative action to ensure that applicants are employed, and that employees are treated during their employment without regard to their race, religion, color, sex or national origin. Such actions shall include pay, or other forms of compensation and selection for training, including apprenticeship.
11. **TERMINATION FOR CONVENIENCE** - AUTHORITY may terminate this agreement for its convenience at any time, in whole or in part, by giving written notice to SELLER of such termination, effective on the date of such notice. Upon receipt of said notice, SELLER shall immediately take action not to incur any further obligations, costs, or expenses, except as may be reasonably necessary to terminate its activities. AUTHORITY shall pay SELLER its allowable costs incurred to date of termination and those costs determined by AUTHORITY to be reasonably necessary to effect such termination. All finished or unfinished documents and other materials procured or produced by SELLER hereunder shall, at the option of AUTHORITY, become AUTHORITY property upon the date of such termination.
12. **AUDIT AND INSPECTION OF RECORDS** - SELLER shall provide AUTHORITY such access to SELLER's books, records, and facilities as may be deemed necessary to examine, audit, and inspect all work data, documents, and activities related to the goods or services described herein. SELLER shall maintain such books, records, data and documents on a generally accepted accounting basis and shall clearly identify and make such items readily accessible to such parties during SELLER's performance hereunder and for a period of four (4) years from the date of final payment by AUTHORITY hereunder.
13. **TIME IS OF THE ESSENCE** - Time is of the essence in the performance of this agreement. SELLER's delivery of the items and related data and/or documentation and/or performance of required services in accordance with the schedule are a material requirement of this agreement.
14. **WARRANTY** - SELLER warrants to AUTHORITY, its successors and customers that all items furnished to AUTHORITY will be free from defects in material and workmanship, will conform to applicable drawings, designs, specifications and samples, will meet all functional and performance requirements and, to the extent this order calls for services to be performed, that such services will be free from defects in workmanship, will meet all of the requirements of this agreement and will be performed to the highest standards of workmanship in the industry. These warranties are in addition to all other warranties, express, implied or statutory. In addition, the warranties set forth in this section shall survive any inspection, delivery, acceptance or payment by AUTHORITY.
15. **FORCE MAJEURE** - Either party shall be excused from performing its obligations under this agreement during the time and to the extent that it is prevented from performing by an unforeseeable cause beyond its control, including but not limited to: any incidence of fire, flood; acts of God; commandeering of material, products, plants or facilities by the federal, state or local government; national fuel shortage; or a material act or omission by the other party; when satisfactory evidence of such cause is presented to the other party, and provided further that such nonperformance is unforeseeable, beyond the control and is not due to the fault or negligence of the party not performing.
16. **GOVERNING LAW** - The laws of the State of California and applicable local and federal laws, regulations and guidelines shall govern this agreement.
17. **SEVERABILITY** - If any term, provision, covenant or condition of this agreement is held to be invalid, void or otherwise unenforceable, to any extent, by any court of competent jurisdiction, the remainder of this agreement shall not be affected thereby, and each term, provision, covenant or condition of this agreement shall be valid and enforceable to the fullest extent permitted by law.
18. **NOTICES** - All notices hereunder and communications regarding the interpretation of the terms of this agreement, or changes thereto, shall be effected by delivery of said notices in person or by depositing said notices in the U.S. mail, registered or certified mail, return receipt requested, postage prepaid to the addresses set forth in the agreement.
19. **COMPLETE AGREEMENT** - This agreement, the purchase order, and any attachments thereto or referenced therein, constitute the complete and exclusive statement of the term(s) and condition(s) of this agreement between SELLER and AUTHORITY and supersede all prior representations, understandings, and communications.

GENERAL WAGE RATES

A. All laborers and mechanics employed by CONTRACTOR or subcontractor at any tier working on the construction site, will be paid unconditionally and not less often than once a week and without any subsequent deduction or rebate on any account (except such payroll deductions as are permitted or required by federal, state or local law, regulation or ordinance), the full amounts due at the time of payment computed at wage rates and per diem rate not less than the aggregate of the highest of the two basic hourly rates and rates of payments, contributions or costs for any fringe benefits contained in the current general prevailing wage rate(s) and per diem rate(s), established by the Director of the Department of Industrial Relations of the State of California, (as set forth in the Labor Code of the State of California, commencing at Section 1770 et. seq.), regardless of any contractual relationship which may be alleged to exist between CONTRACTOR or subcontractor and their respective mechanics, laborers, journeypersons, workpersons, craftspersons or apprentices. Copies of the current General Prevailing Wage Determinations and Per Diem Rates are on file at AUTHORITY's offices and will be made available to CONTRACTOR upon request. CONTRACTOR shall post a copy thereof at each job site at which work hereunder is performed.

B. In addition to the foregoing, CONTRACTOR agrees to comply with all other provisions of the Labor Code of the State of California, which are incorporated herein by reference, pertaining to workers performing work hereunder including, but not limited to, those provisions for work hours, payroll records and apprenticeship employment and regulation program. CONTRACTOR agrees to insert or cause to be inserted the preceding clause in all subcontracts, which provide for workers to perform work hereunder regardless of the subcontractor tier.