



AFFILIATED AGENCIES

*Orange County
Transit District*

*Local Transportation
Authority*

*Service Authority for
Freeway Emergencies*

*Consolidated Transportation
Service Agency*

*Congestion Management
Agency*

September 26, 2024

**SUBJECT: Invitation for Bids (IFB) 4-2435
“Construction of Traffic Signal Improvements for Regional Traffic Signal
Synchronization Program Projects”**

Ladies/Gentlemen:

This letter and its attachments comprise **Addendum No. 1** to the above captioned Invitation for Bids issued by the Orange County Transportation Authority (“Authority”).

1. Bidders are advised that the pre-bid conference will be held on October 2, 2024 at 9:00 am, attendance will be on-site/in-person at the Authority’s Administrative Office, 550 South Main Street, Orange, CA 92868 in Conference Room 08. Participation via teleconference will also be available. **Prospective bidders may call-in using the following credentials:**

[Click here to join the meeting](#)

OR Call-in Number: +1 916-550-9867

Conference ID: 286 120 123#

2. Bidders are advised that a copy of the pre-bid conference presentation is presented as Attachment A to this Addendum No. 1.
3. Bidders who plan to attend the pre-bid conference remotely are requested to submit via e-mail to mle1@octa.net, no later than Tuesday, October 1, 2024 at 5 pm, the Pre-Bid Conference Registration Sheet which is presented as Attachment B to this Addendum No. 1.
4. Bidders are advised that Section VIII: Level 3 Health, Safety and Environmental Specifications – Exhibit H, has been deleted and replaced in its entirety and is being presented as Attachment C to this Addendum No. 1.

Bidders are reminded to acknowledge receipt of this **Addendum No. 1** in their “Bid Form”. Bidders are advised that all changes addressed in this **Addendum No. 1** shall be incorporated into the final Agreement.

Questions regarding this Addendum No. 1 should be directed to the undersigned at 714-560-5314 or mle1@octa.net.

Sincerely,

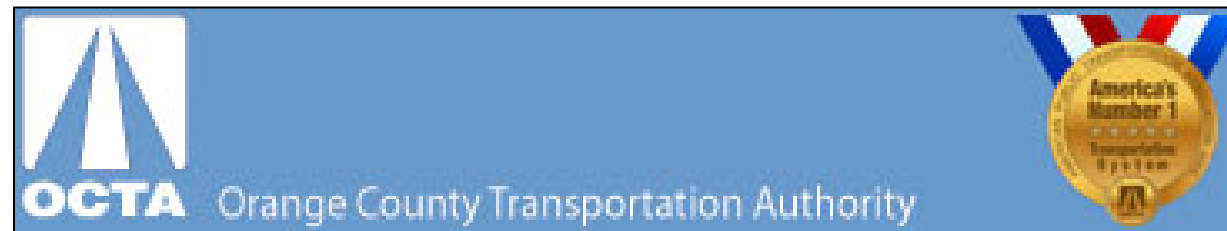
A handwritten signature in black ink, appearing to read "Michael Le", with a stylized flourish at the end.

Michael Le
Senior Contract Administrator
Contracts Administration and Materials Management

Attachments:

- Attachment A: Pre-Bid Conference Presentation
- Attachment B: Pre-Bid Conference Registration Sheet
- Attachment C: Revised Level 3 Health, Safety and Environmental (HSE) Specifications

Pre-Bid Conference for IFB 4-2435 Construction of Traffic Signal Improvements for Regional Traffic Signal Synchronization Program Projects



Agenda

- Safety/Evacuation Information
- Key Procurement Dates
- Key Procurement Information
- Written Questions/Approved Equals
- Required Bid Submission
- Agreement
- Safety Requirements
- Scope of Work
- Questions and Answers



CAMM NET Registration

Why register on CAMM NET?

<https://cammnet.octa.net/>

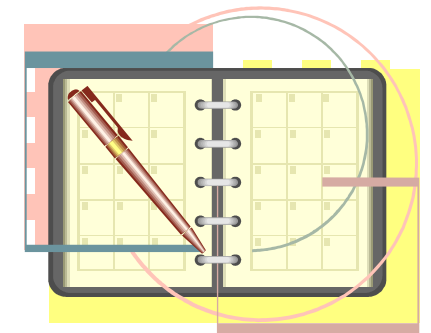
- To receive e-mail notifications of Solicitations, Addenda and Awards
- View and update your vendor profile
- Required for Award

Online Business & Networking Tools

- CAMM NET Connect
 - <https://www.facebook.com/CammnetConnect>
- Working with OCTA
 - <https://cammnet.octa.net/about-us/working/>
- Planholder's List
 - <https://cammnet.octa.net/procurements/planholders-list-selection/>
- Preliminary Bid Results
 - https://cammnet.octa.net/awards/bid_results/Default.aspx

Key Procurement Dates

- IFB Issue Date: September 23, 2024
- Questions & Approved Equals Due: October 7, 2024
- OCTA Responds: October 17, 2024
- Bid Submittal Deadline: October 28, 2024 11:00 A.M.
(time-stamp required by lobby reception)
- Board of Directors Award: December 9, 2024 (anticipated)



Key Procurement Information

- Discussions today are non-binding, all changes via written addendum
- Addendum will be issued shortly and will contain a copy of the Pre-Bid Conference sign-in sheets
- Award based on prime-sub relationship, not joint ventures
- Prime Contractor must perform at least 10% of the work
- Contract Type: Firm Fixed Price, in accordance with schedule of quantities and prices
- Award Type: Lowest, Responsible, Responsive Bid
- Lowest bid price will be evaluated as a total of the base work plus all optional bid items
- Single Contract Award
- Funded with Measure M2 Funds

Key Procurement Information

- Authority reserves the right to:
 - accept or reject any and all bids, or any item or part thereof, or to waive any informalities or irregularities in bids;
 - withdraw or cancel the IFB at any time without prior written notice;
 - issue a new IFB for the project;
 - postpone bid opening for its own convenience;
 - investigate the qualifications of any bidder and/or require additional evidence of qualifications to perform the work
- Bids received are considered public information and are not to be copyrighted

Written Questions/Approved Equals

- Written Question Deadline: October 7, 2024 5:00 P.M.
- Approved Equal Request Deadline: October 7, 2024 5:00 P.M.
- All requests must be in writing and submitted to:
Michael Le, Senior Contract Administrator
E-mail recommended: mle1@octa.net

Written Questions/Approved Equals

- All requests must be clearly labeled “Written Questions”
- Approved Equal Requests must be fully supported with technical data, test results or other information as evidence that the substitute offered is equal to or better than the specification requirements
- All changes to procurement document will be by written addenda only.
- Verbal discussions today are non-binding
- Addenda will be issued via CAMM NET

Bid Document Submission Checklist

IFB 4-2435
ADDENDUM NO. 1
ATTACHMENT A

- A Bid Document Submission Checklist is included in Bid Booklet 2 which is a list of all documents required to be submitted with the bid.
- Documents in the Bid Booklet 2 must be complete, fully executed, notarized where appropriate as required in the bid documents in order to render the bid responsive.

Required Bid Submission

Bid Booklet No. 2 is to be submitted to the Authority in its entirety

☐ **Bid Form**

- in its entirety (all pages 1 thru 23), all information completed
- acknowledgement of all addenda
- signed, dated, corporate seal

☐ **Bid Security Form (Bid Bond or Check)**

- correct bid number
- signed & dated
- notarized (bid bond)

Required Bid Submission

☐ **Information Required of Bidder**

- provide all information requested
- signature to certify information is true and correct

☐ **Bidders Certificate of Compliance Regarding Workers Compensation Insurance**

- signed and dated

☐ **Bidders Certificate of Compliance Regarding State of California Business and Professions Code Section 7028.15**

- signed, dated, notarized

Required Bid Submission

☐ List of Subcontractors (Exhibit D)

- all subcontractors that will provide ½ of 1% of the bid amount
- License Number- address/ name should match that associated with License # on CSLB website
- DIR Registration Number
- Description of work (one subcontractor for each portion)
- Dollar amount
- Type – Leave Blank
- Bidders name at bottom of Form

Required Bid Submission

☐ **Status of Past and Present Contracts Form**

- signature to affirm information is true and correct/date
- if no information to report then mark as “none”, sign and date

☐ **Non-Collusion Declaration**

- signature required to certify non collusion/ date

☐ **Iran Contracting Act Certification (Bids over \$1,000,000 only)**

- certify with signature and date
- sign and date only one option (#1 or #2)

Agreement – Section IV of IFB

- a bid submittal is the understanding and acceptance of the terms and conditions of the contractual requirements
- no exceptions or deviations are permitted

Agreement

Bidders are encouraged to review:

- Article 4. Delivery and Recovery Schedule: 480 calendar days
- Article 10. Insurance: required within 10 calendar days of notification of award
- Article 11. Bonds: required within 10 calendar days of notification of award
- Article 19. Assignment and Subcontracts: Subletting and Subcontractors Fair Practices Act
- Article 31. Liquidated Damages: \$1,250 per calendar day

Agreement

Bidders are encouraged to review:

- Article 48. Health and Safety Specifications

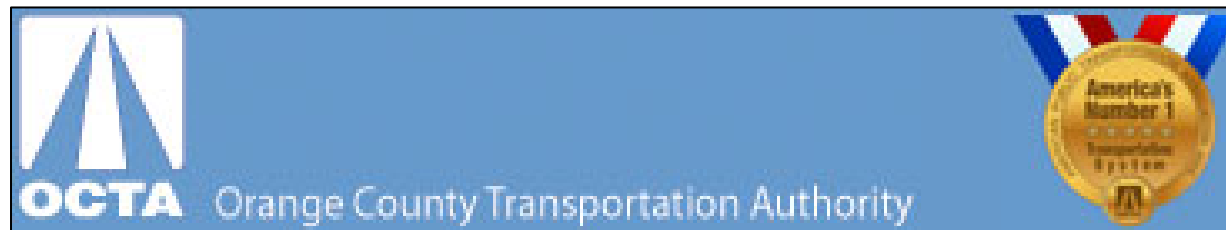
 - Level 3 Health Safety and Environmental Specifications
(Section VIII of IFB)

 - Required submittals within 30 days of Notice to Proceed

 - Approved submittals required for mobilization



Health, Safety and Environment (HSE)



Regulatory and Safety

- Please review OCTA's Level 3 Health, Safety and Specifications for required submittal documentation. Plan to prepare and submit in a timely manner in advance of the work the required safety submittal documentation.
- OCTA compliance review of Contractor safety submittal documentation is required prior to Contractor mobilizing and performing work on OCTA property.
- An on-site Health, Safety, and Environmental (HSE) Representative compliant with requirements of OCTA's Level 3 HSE Specifications may be required to be at the job site during scope site activities. Multiple active scope locations shall require a qualified HSE Representative for each separate worksite location.
- The Contractor's designated HSE Representative is a key position and is expected to participate in the initial pre-mobilization kick-off meeting.

Regulatory and Safety (Cont.)

Submittals

- Company's Injury Illness Prevention Program, CCR Title 8, 3203
- Company HSE Policy/Procedure Manual
- Substance Abuse Prevention Program
- Hazard Communication Program, CCR Title 8, 5194
- Company Heat Illness Prevention Program, CCR Title 8, 3395
- NFPA 70-E training certificate(s)
- Health, Safety Environmental (HSE) Representative Resume
- A Detailed Site Specific HSE Work Implementation Plan
- Public Hazard Control Plan (ANSI/ASSE A10.34) (as Necessary)
- Storm Water Pollution Prevention Plan (SWPPP), Qualified QSP

Regulatory and Safety (Cont.)

- Established programs and plans shall comply with California Code of Regulations (CCR) Title 8 regulatory standards, and applicable regulatory requirements.
- The Contractor's designated HSE representative shall review and acknowledge by signature the Contractor's submitted HSE documents prior to formal transmitting to the Authority for review, submittals should be in a complete submittal package.
- Contractor employees shall comply with scope training requirements (i.e., SCRRRA, BNSF, HAZWOPER, etc.) as determined by scope hazards.
- At the determination of the Authority Project Manager, development of project specific HSE plans may require a Certified Safety Professional (CSP) in current standing with the Board of Certified Safety Professionals (BCSP), or a Certified Industrial Hygienist (CIH) in current standing with American Board of Industrial Hygiene (ABIH) that has experience developing compliant written HSE scope policies, programs and procedures in the State of California (i.e., Site Specific HSE Work Plans, Rail Compliance, JHA's, Environmental Plans, Crane & Hoisting Plans, etc.).

Regulatory and Safety – Capital Program BCSP Certifications

Certified Safety Professional (/Certifications/Certified-Safety-Professional)



A Certified Safety Professional or CSP is a safety professional who has met education and experience standards, has demonstrated by examination the knowledge that applies to professional safety practice, continues to meet Recertification requirements established by the Board of Certified Safety Professionals, and is authorized by BCSP to hold the Certified Safety Professional certification.

Associate Safety Professional (/Certifications/Associate-Safety-Professional)



An Associate Safety Professional or ASP is a certification awarded by BCSP. It denotes that an individual has met academic requirements and has passed the ASP examination—an examination that leads to the CSP.

Construction Health and Safety Technician (/Certifications/Construction-Health-and-Safety-Technician)



Construction Health and Safety Technician or CHST is a certification awarded to safety practitioners who meet and continue to meet all requirements established by BCSP. BCSP awards CHST certification to individuals who demonstrate competency and work part-time or full-time in health and safety activities devoted to the prevention of construction illness and injuries.

Source: <http://bcsp.org/Certifications>

Regulatory and Safety – Facility Modifications BCSP Certifications

(Include Capital Program Certifications)

IFB 4-2435
ADDENDUM NO. 1
ATTACHMENT A

Occupational Health and Safety Technologist (/Certifications/Occupational-Health-and-Safety-Technologist)



Occupational Health and Safety Technologist or OHST is a title awarded to safety practitioners who meet and continue to meet all requirements established for the OHST by BCSP. Some examples of occupational health and safety activities are making worksite assessments to determine risks, potential hazards and controls, evaluating risks and hazard control measures, investigating incidents, maintaining and evaluating incident and loss records, and preparing emergency response plans.

Safety Trained Supervisor (/Certifications/Safety-Trained-Supervisor)



The Safety Trained Supervisor or STS certification is intended for managers at all levels, first line supervisors of work groups or organization units or have a safety responsibility for a work group that is part of other work duties. Safety Trained Supervisors are not necessarily safety specialists or safety practitioners. Typical candidates have a safety responsibilities that is adjunct, collateral or ancillary to their job duties. Their main job duties are in a craft or trade, in leadership, supervision or management, or in a technical specialty.

Construction Health and Safety Technician (/Certifications/Construction-Health-and-Safety-Technician)



Construction Health and Safety Technician or CHST is a certification awarded to safety practitioners who meet and continue to meet all requirements established by BCSP. BCSP awards CHST certification to individuals who demonstrate competency and work part-time or full-time in health and safety activities devoted to the prevention of construction illness and injuries.

Safety Trained Supervisor Construction (/stsc)



The Safety Trained Supervisor Construction or STSC certification is intended for those working in construction who are managers at all levels, first line supervisors of work groups or organization units or have a safety responsibility for a work group that is part of other work duties. Typical candidates have a safety responsibilities that is adjunct, collateral or ancillary to their job duties. Like STSs, STSCs main job duties are in a craft or trade, in leadership, supervision or management, or in a technical specialty.

Source: <http://bcsp.org/Certifications>

Regulatory and Safety (Cont.)

Monthly Safety Report Submittal:

- A monthly accident/incident summary 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.

Regulatory and Safety (Cont.)

- Implementation and compliance with Storm Water Best Management Practices (SWPPP BMP's) is required.
- Contractor shall prepare and submit a project best management practices (BMP) plan for OCTA's review and acceptance and the Contractor shall implement its BMP plan and maintain the BMPs for the duration of the project.

Scope of Work

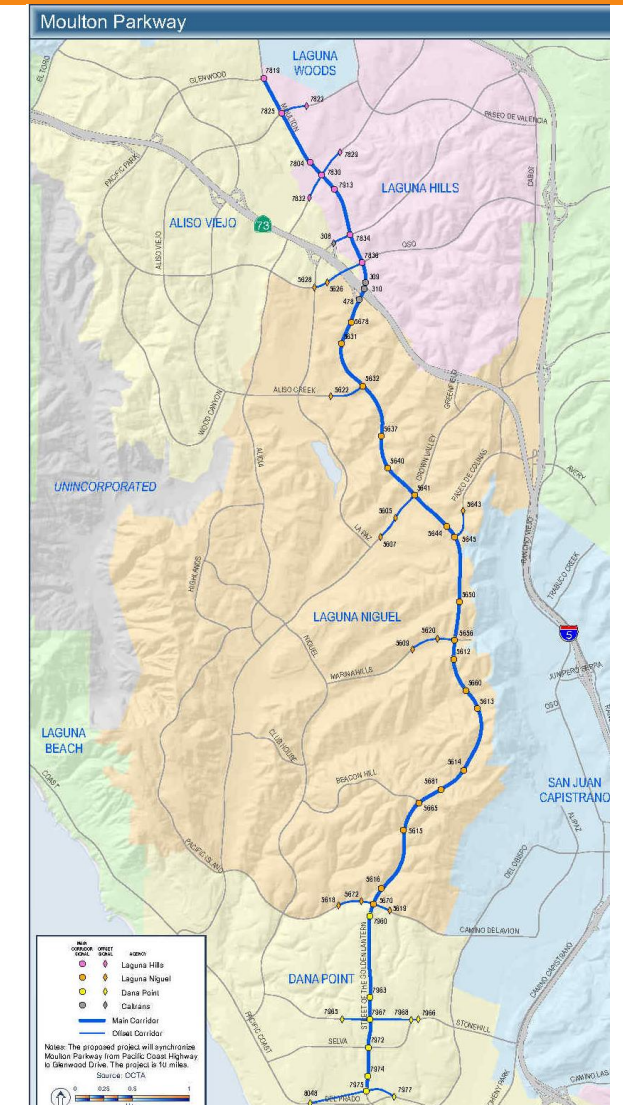
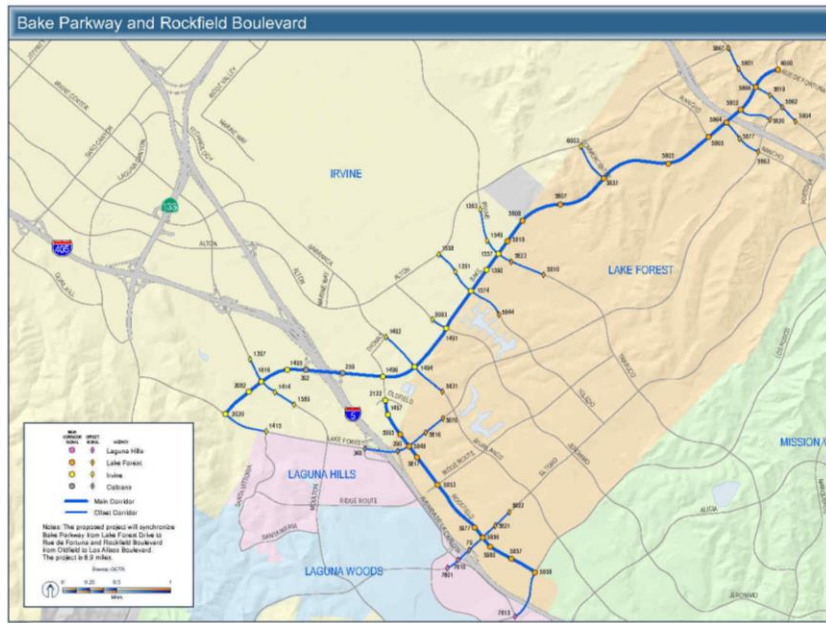
(Refer to IFB Documents, Exhibits, Attachments)

- Regional Traffic Signal Synchronization Program (RTSSP or Project P)
 - Funded by Measure M2 (OC Go)
 - Annual call for projects
 - Signal synchronization and approved traffic signal infrastructure upgrades

Project Information

• 3 Separately Funded Projects

- Bake Parkway and Rockfield Boulevard RTSSP project
- Crown Valley Parkway RTSSP project
- Moulton Parkway RTSSP project



- **Upgrades**

- **Communication:** *cell modem; conductor signal cable; Ethernet switches; fiber distribution unit, splice enclosure, accessories, and termination; fiber optic cabling; pullboxes; polyvinyl chloride conduit*
- **Field elements:** *APS, bike push buttons, Braille signs, closed-circuit television, emergency vehicle pre-emption, global positioning system unit, traffic signal cabinet (new, modified, or existing foundation), temp cabinet, traffic signal controller, uninterruptible power supply w/side mounted cabinet*
- **Removal of existing equipment**

- **Permits**

- City and County of Orange encroachment permits are required
 - No-fee permits
- Contractor is responsible with obtaining all permits and meeting requirements from each individual agency

- Questions?



- Reminder.... Bids are due by 11:00 A.M. on October 28, 2024
- Bid Opening Instructions:
 - Hand delivered: must be time stamped at OCTA Lobby Reception
 - Public Bid Opening: will be held in Conference Room 101 and via teleconference using the following login credentials:
 - Call-in Number: 1-916-550-9867
 - Conference ID: 898586259#
 - Callers are requested to dial in and mute the call.
- Please register on CAMM NET
- Thank you for your interest in OCTA!



PRE-BID CONFERENCE REGISTRATION

IFB No. 4-2435

Date: October 2, 2024

Title: Construction of Traffic Signal Improvements for Regional Traffic Signal Synchronization Program Projects

1. Company Name: _____

Attendee: _____

Address: _____

City, State Zip: _____

Phone Number: () _____ Registered on CAMM NET? ☐ Yes ☐ No

Prime ☐ Sub ☐

E-Mail Address: _____

2. Company Name: _____

Attendee: _____

Address: _____

City, State Zip: _____

Phone Number: () _____ Registered on CAMM NET? ☐ Yes ☐ No

Prime ☐ Sub ☐

E-Mail Address: _____

3. Company Name: _____

Attendee: _____

Address: _____

City, State Zip: _____

Phone Number: () _____ Registered on CAMM NET? ☐ Yes ☐ No

Prime ☐ Sub ☐

E-Mail Address: _____

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. HSE Representative:

Facility Modification Projects, The Contractor shall submit a resume of the Company's HSE Representative that will oversee the scope task activities:

Certification from the Board of Certified Safety Professionals (BCSP)

- Certified Safety Professional (CSP), or,
- Associate Safety Professional (ASP), or
- Construction Health and Safety Technician (CHST), or,
- Safety Trained Supervisor (STS), or,
- Safety Trained Supervisor Construction (STSC)

Experience:

The Contractor's HSE Representative(s) shall have a minimum of five (5) years of heavy construction or scope agreement experience in administering HSE programs on project sites, the last two years of which have been administering HSE compliance in a similar type of scope (Construction, Rail, Industrial, etc.) for which Contractor is contracting with the Authority. The designated HSE Representative shall participate in all HSE related

submittals through completion of the scope and administer the monthly safety report.

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 OCTA the Health, Safety Environmental Compliance (HSEC) Department Manager.

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 as 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 subcontractors 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 require their company HSE Representative to review the scope tasks to ensure compliance with Cal/OSHA Standards. 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 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 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.

Facility Modification Projects, The Contractor shall submit a resume of the designated HSE Representative and their Professional Certification:

Certification from the Board of Certified Safety Professionals (BCSP)

- Certified Safety Professional (CSP), or,
- Associate Safety Professional (ASP), or
- Construction Health and Safety Technician (CHST), or,
- Safety Trained Supervisor (STS), or,
- Safety Trained Supervisor Construction (STSC)

Experience:

The Contractor's HSE Representative(s) shall have a minimum of five (5) years of heavy construction or scope agreement experience in administering HSE programs on project sites, the last two years of which have been administering HSE compliance in a similar type of scope (Construction, Rail, Industrial, etc.) for which Contractor is contracting with the Authority. The designated HSE Representative shall participate in all HSE related submittals through completion of the scope and administer the monthly safety report.

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 OCTA the Health, Safety Environmental Compliance (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, 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 an 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 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