REQUEST FOR PROPOSALS FOR PROFESSIONAL ENGINEERING SERVICES

FOR THE AVENUE 52/GRAPEFRUIT BOULEVARD RAILROAD GRADE SEPARATION IMPROVEMENTS PROJECT

Construction Management, Material Testing, Survey Staking and Public Outreach Services

CITY OF COACHELLA 1515 Sixth Street Coachella, CA 92236

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NOTICE OF REQUEST FOR PROPOSALS

CITY OF COACHELLA REQUEST FOR PROPOSAL FOR PROFESSIONAL ENGINEERING SERVICES

FOR THE AVENUE 52/GRAPEFRUIT BOULEVARD RAILROAD SEPARATION IMPROVEMENTS

Construction Management, Material Testing, Survey Staking and Public Outreach Services

CITY PROJECT NO. 2009-18 FEDERAL AID PROJECT NO. CML 5294(007)

The City of Coachella invites proposals from qualified consultants to perform Construction Management, Material Testing, Survey Staking and Public Outreach Services for the proposed Avenue 52/Grapefruit Boulevard Railroad Separation Improvements located at the intersection of Avenue 52 and Grapefruit Boulevard.

The City proposed to construct a new grade-separated crossing for Avenue 52, spanning over the Union Pacific Railroad (UPRR) and Grapefruit Boulevard (also known as Highway 111). The proposed project will also add a new connection road from Avenue 52 to Grapefruit Boulevard at Sunset Drive. The project includes constructing a raised roadway of Avenue 52 from Calle Limon to Tyler Street/Industrial Way with a new 3-span, 348 feet long overhead structure to accommodate an ultimate 6- lane corridor concept, widening of Grapefruit Boulevard and extending of Sunset Drive to reconnect Avenue 52 with Grapefruit Boulevard. The project also includes major utility relocations (jack and bore 36-inch steel casing for installation of 18-inch sewer line), drainage, MSE retaining walls, pavement, curb and gutter, sidewalks, 4 new traffic signals for intersection improvements. Reconstruction some commercial driveways and UPRR flagging during construction, crossing panels and signal removal work.

The proposed improvements are partially funded with Congestion Mitigation Air Quality (CMAQ), Trade Corridors Improvement Fund (TCIF) Proposition 1B and local funds. All work and resulting facilities shall fully conform to the requirements set forth by the Federal Highways Administration (FHWA) and the State of California Department of Transportation (Caltrans). The project documentation and construction administrative procedures shall conform to the requirements set forth within the Caltrans Local Assistance Procedures Manual.

The project construction start date is constrained by TCIF funding deadlines, which is to begin construction no later than December 31, 2013.

Proposals shall be received at City Hall on or before 5:00 p.m. MONDAY, SEPTEMBER 23, 2013.

Proposals shall be submitted to the following:

Jonathan Hoy, P.E., City Engineer City of Coachella 1515 Sixth Street Coachella, CA 92236 Proposals, and amendments to proposals, received after the date and time specified above will be returned to the Consultants unopened.

Parties interested in obtaining a copy of this Request for Proposal Project No. 2009-18 may do so by contacting:

Copies of the RFP and attachments are available on the City Website, www.coachella.org and/or at Desert Reprographics, 31410 Reserve Drive, Thousand Palms Ca. 92276 phone (760) 343-3134 paid for directly to Desert Reprographics. Out of State mails will be additional.

This is a two-part submittal. In envelope No.1, Consultants shall submit written statements of technical qualifications and describe in detail their work plan for completing the work specified in the Request for Proposal. In a separate, sealed envelope No. 2, Consultants shall submit a detailed cost proposal for all services and materials anticipated in completing the project. A detailed cost break-down for each project task and sub-task shall be submitted.

The City may short-list one or more firms for further evaluation. If required, interviews with the short-listed firms will be scheduled.

Consultants are notified that the City has established a Disadvantaged Business Enterprise (DBE) goal of 13% for this project.

The City reserves the right to waive informalities and to reject all proposals at its sole discretion. Consultants are encouraged to keep their proposals brief and relevant to the specific work required.

The award of this agreement is subject to receipt funds adequate to carry out the provisions of the proposed agreement included in the identified Scope of Work.

Sincerely,

Jonathan Hoy, P.E. City Engineer

SECTION I – INSTRUCTIONS TO CONSULTANTS

A. DISADVANTAGED BUSINESS ENTERPRISE (DBE) REQUIREMENTS This project is subject to Title 49 CFR 26. The CONSULTANT must include all DBE groups (i.e. African Americans, Asian Pacific Americans, Native Americans, Women,

Hispanic Americans, Subcontinent Asian Americans, and any other groups whose members are certified as socially and economically disadvantaged).

The consultant shall carry out applicable requirements of 49 CFR part 26 in the award and administration of DOT- assisted contracts. Failure by the consultant to carry out these requirements would be a material breach of any contract, which may result in the termination of the contract or such other remedy as the recipient deems appropriate.

The selected consultant shall take necessary and reasonable steps to ensure that DBEs have opportunity to participate in the contract (49 CFR 26).

To ensure there is equal participation of the DBE groups specified in 49 CFR 26, the City of Coachella has established a Disadvantaged Business Enterprise (DBE) goal of 13% for this project.

B. EXAMINATION OF PROPOSAL DOCUMENTS

By submitting a proposal, Consultant represents that it has thoroughly examined and become familiar with the work required under this RFP and that it is capable of performing quality work to achieve the City's objectives. A partial set of plans are will be provided with this RFP.

C. ADDENDA

Any City changes to the requirements will be made by written addendum to this RFP. Any written addenda issued pertaining to this RFP shall be incorporated into the terms and conditions of any resulting Agreement. The City will not be bound to any modifications to or deviations from the requirements set forth in this RFP as the result of oral instructions. Consultants shall acknowledge receipt of addenda in their proposals by attaching a copy of each addendum to the proposal document.

D. CITY CONTACT

All questions and contacts with City of Coachella staff regarding this RFP shall be directed to the following person:

Mr. Jonathan Hoy, P.E., City Engineer

1515 Sixth Street.

Coachella California 92236

Phone: 760-398-5744, or e-mail: JHoy@coachella.org

E. CLARIFICATIONS

1. Examination of Documents

Should an Consultant require clarifications to this RFP, the Consultant shall notify the City in writing in accordance with Section F.2 below. Should it be found that the point in question is not clearly and fully set forth, the City will issue a

written addendum clarifying the matter. Addenda will be sent to all registered firms via first class mail or email.

2. Submitting Requests

- a. All questions shall be put in writing and shall be received by the City no later than 5:00 p.m., TUESDAY, SEPTEMBER 16, 2013. All inquiries received after this deadline will not receive a response.
- b. Requests for clarification, questions and comments shall be clearly labeled, "Request for Information". The City is not responsible for failure to respond to a request that has not been labeled as such.
- c. Any of the following methods of delivering written questions are acceptable as long as the questions are received no later than the date and time specified above:
 - U.S. Mail / Personal Courier: Jonathan Hoy, P.E., City Engineer City of Coachella, Engineering, 1515 Sixth Street Coachella, California 92236.
 - Facsimile: (760) 398-1630E-Mail: JHoy@coachella.org

3. City Responses

Responses from the City will be issued in writing as an addendum that will be sent to all registered firms. Consultants shall acknowledge receipt of City clarification responses by attaching a copy of each Addendum to their Proposals.

F. SUBMISSION OF PROPOSALS

1. Date and Time

Proposals shall be received at the Engineering Department at the Coachella City Hall on or before 5:00 p.m. on WEDNESDAY, SEPTEMBER 23, 2013. Proposals received after the above specified date and time will be returned to Consultants unopened.

2. Address

Proposals delivered in person or by a means other than the U.S. Postal Service shall be submitted to the following:

Jonathan Hoy, P.E., City Engineer, City of Coachella 1515 Sixth Street

Coachella, CA 92236

3. Technical Proposal Content and Evaluation Weighting:

a. Qualifications, Related Experience, and References – 25%

This section of the proposal should establish the ability of the proposed team to satisfactorily perform the required work by reasons of: experience in performing work of the same or similar nature; demonstrated experience working with agencies directly involved in this Project; staffing capability; work load; record of meeting schedules on similar projects; and supportive client references.

The City strongly encourages proposals from qualified small local businesses. It is the City's policy to encourage greater availability, capacity development, and contract participation by small local business enterprises in City contracts. It is intended to further the City's compelling interest to stimulate economic development in the Coachella Valley through the support and empowerment of the local community, ensure that it is neither an active nor passive participant in marketplace discrimination, and promote equal opportunity for all segments of the contracting community.

- b. Proposed Staffing and Project Organization 35%

 This section of the proposal should establish the method that will be used to manage the Project as well as identify key personnel assigned.
- c. Work Plan 40%

 This section of the proposal shall provide a narrative that addresses the Scope of Services and shows understanding of the Project needs and requirements.
- 4. Identification of Proposals
 Proposal shall clearly mark with the consultant's name, address and phone
 number as well as the project name and service to be provided. Only one
 proposal per consultant will be considered. Consultant shall submit one original
 and five (5) copies of its technical proposal.
- 5. Acceptance of Proposals
 - a. The CITY reserves the right to accept or reject any and all proposals, or any item or part thereof, or to waive any informalities or irregularities in proposals.
 - b. The CITY reserves the right to withdraw or cancel this RFP at any time without prior notice, and the CITY makes no representations that any agreement will be awarded to any Consultant responding to this RFP.
 - c. Submitted proposals shall not be copyrighted.

G. PRE-CONTRACTUAL EXPENSES

The City shall not, in any event, be liable for any pre-contractual expenses incurred by Consultant in the preparation of its proposal. Consultant shall not include any such expenses as part of its proposal.

Pre-contractual expenses are defined as expenses incurred by Consultant in:

- 6. Preparing its proposal in response to this RFP;
- 7. Submitting that proposal to the City;
- 8. Preparing for and attending an interview with the City
- 9. Negotiating with the City any matter related to this proposal; or
- 10. Any other expenses incurred by Consultant prior to date of award, if any, of the Agreement.

H. PRE-AWARD AUDIT

In accordance with Caltrans requirements and procedures, the selected consultant's cost proposal will be subject to a pre-award audit by Caltrans.

I. JOINT OFFERS

Where two or more Consultants desire to submit a single proposal in response to this RFP, they should do so on a prime-subconsultant basis rather than as a joint venture. The City intends to contract with a single firm and not with multiple firms doing business as a joint venture.

J. CONTRACT TYPE

It is anticipated that the Agreement resulting from this solicitation, if awarded, will be a not-to-exceed contract based on prices for individual tasks specified in the Scope of Work included in this RFP as Section III, Scope of Work.

SECTION II – PROPOSAL CONTENT AND FORMAT

A. PROPOSAL CONTENT AND FORMAT

Presentation of the proposals shall be typed, with a minimum 11 point font and submitted on 8 1/2 x 11" size paper, using a single method of fastening. Charts and schedules may be included in 11" x 17" format. Consultants should not include unnecessarily elaborate or promotional material. Lengthy narrative is discouraged, and presentations should be brief and concise. Proposals shall not exceed twenty five (25) pages in length, excluding any letter of transmittal and appendices. Forms, and resumes should be included in the appendices and will not be included in the page count. The proposals shall include all five sections below, except cost and Price proposal.

1. Letter of Transmittal

The Letter of Transmittal shall be addressed to Jonathan Hoy, P.E, City Engineer, and shall, at a minimum, contain the following:

- a. Identification of Consultant that will have contractual responsibility with the City. Identification shall include legal name of company, corporate address, telephone and fax number. Include name, title, address, and telephone number of the contact person identified during period of proposal evaluation.
- b. Identification of all proposed subcontractors including legal name of company, whether the firm is a Disadvantaged Business Enterprise (DBE), contact persons name and address, phone number and fax number. Relationship between Consultant and subcontractors, if applicable.
- c. A memorandum from a principal of each subcontractor firm indicating the specific portion of services the subcontractor will be performing. These commitment letters shall be included in the appendix section, they are not part of the page count.
- d. Acknowledgment of receipt of all RFP addenda, if any.
- e. A statement to the effect that the proposal shall remain valid for a period of not less than 180 days from the date of submittal.
- f. Signature of a person authorized to bind Consultant to the terms of the proposal.
- g. Signed statement attesting that all information submitted with the proposal is true and correct.
- h. Transmittal letter shall be limited to three (3) pages. It will not be included in the page count.

2. Technical Proposal

a. Qualifications, Related Experience and References of Consultant
This section of the proposal should establish the ability of Consultant to
satisfactorily perform the required work by reasons of: experience in
performing work of the same or similar nature; demonstrated experience
working with affected local agencies directly involved in this project;
experience working with Caltrans District 8, Local Assistance, Federal
Highway Administration, the California Public Utilities Commission (PUC)
and the Union Pacific Railroad; strength and stability of the Consultant;
staffing capability; work load; record of meeting schedules on similar
projects; and supportive client references.

Consultant to:

- i. Provide a brief profile of the firm, including the types of services offered; the year founded; form of the organization (corporation, partnership, sole proprietorship); number, size and location of offices; number of employees.
- ii. Provide a general description of the firm's financial condition, identify any conditions (e.g., bankruptcy, pending litigation, planned office closures, impending merger) that may impede Consultant's ability to complete the project.
- iii. Describe the firm's experience in performing work of a similar nature to that solicited in this RFP, and highlight the participation in such work by the key personnel proposed for assignment to this project.
- iv. Describe experience in working with the various government agencies and private entities that may have jurisdiction over the approval of the work specified in this RFP. Please include specialized experience and professional competence in areas directly related to this RFP.
- v. A minimum of three (3) references should be given. Furnish the name, title, address and telephone number of the person(s) at the client organization who is most knowledgeable about the work performed. Consultant may also supply references from other work not cited in this section as related experience.
- b. Proposed Staffing and Project Organization This section of the proposal should establish the method that will be used by the Consultant to manage the project as well as identify key personnel and sub-consultants assigned.

Consultant to:

- i. Provide education, experience and applicable professional credentials of project staff. Include applicable professional credentials of "key" project staff.
- ii. Furnish brief resumes (not more than two [2] pages each) for the proposed Project Manager and other key personnel in the appendix.
- iii. Identify key personnel proposed to perform the work in the specified tasks and include major areas of subcontract work. Include the person's name, current location, proposed position for this project, current assignment, level of commitment to that assignment, availability for this assignment and how long each person has been with the firm.
- iv. Include a project organization chart that clearly delineates communication and reporting relationships with the City among the project staff and including sub-consultants.
- v. Include a statement that key personnel will be available to the extent proposed for the duration of the project, acknowledging that no person designated as "key" to the project shall be removed or replaced without the prior written concurrence of the City.

c. Work Plan

Consultant shall provide a narrative that addresses the Scope of Work and shows Consultant's understanding of City's needs and requirements.

Consultant to:

- i. Describe the approach and work plan for completing the tasks specified in the Scope of Work. The work plan shall be of such detail to demonstrate the Consultant's ability to accomplish the project objectives and overall schedule.
- ii. Outline sequentially, the activities that would be undertaken in completing the tasks and specify who would perform them.
- iii. Identify methods that Consultant will use to ensure quality control as well as budget and schedule control for the project.
- iv. Identify any special issues or problems that are likely to be encountered during this project and how the Consultant would propose to address them.
- v. Consultant is encouraged to propose enhancements or procedural or technical innovations to the Scope of Work that do not materially deviate from the objectives or required content of the project.

3. Exceptions/Deviations

State any exceptions to or deviations from the requirements of this RFP, segregating "technical" exceptions from "contractual" exceptions. Where Consultant wishes to propose alternative approaches to meeting the City's technical or contractual requirements, these should be thoroughly explained. If no contractual exceptions are noted, Consultant will be deemed to have accepted the contract requirements as set forth in Section IV: Proposed Professional Services Agreement.

4. Appendices

Information considered by Consultant to be pertinent to this project and which has not been specifically solicited in any of the aforementioned sections may be placed in a separate appendix section. Consultants are cautioned, however, that this does not constitute an invitation to submit large amounts of extraneous materials. Appendices should be relevant and brief.

5. Caltrans Forms

All the required forms identified in Section V of this RFP must be filled out and included in the appendix and not in the page count.

6. Cost and Price Proposal

Shortlisted firms are asked to submit in a separate envelope, a detailed cost proposal. Cost proposals shall be prepared to follow the order and format of the items of work listed in SECTION III SCOPE OF WORK. For example, the first item in the cost proposal should be Task 1 Pre-construction Services. Cost proposals shall, as a minimum, show all anticipated Prime and Subconsultant costs by Task and Subtask, including personnel by classification, hours and hourly rates. Other Direct Costs shall be summarized at the Project level, rather than by Task. Cost proposals shall comply with prevailing wage requirements as applicable.

SECTION III – SCOPE OF WORK

GENERAL

The City of Coachella is seeking proposals from qualified Professional Engineering Consultants to perform Construction Management, Material Testing, Survey Staking and Public Outreach Services for the proposed Avenue 52/Grapefruit Boulevard Railroad Separation Improvements located at the intersection of Avenue 52 and Grapefruit Boulevard per Caltrans and FHWA procedures, and UPRR requirements.

The following Scope of Work represents the minimum effort needed to complete the project. Consultants should review the listed tasks in detail and are encouraged to add additional tasks and propose enhancements, or procedural/technical innovations to the Scope of Work that do not materially deviate from the objectives or required content of the project.

A. DESCRIPTION OF SERVICES

The City (CITY) will utilize the services of CONSULTANT to support the construction management activities for the Project. The CONSULTANT will provide construction management, materials testing, construction surveying and public outreach for the Project. A description of the Project is given below.

The project is located along Avenue 52/Grapefruit Boulevard from Shady Lane to Tyler Street/Industrial Way; and along Grapefruit Boulevard from Hill Drive to Tyler Street. The project includes constructing a raised roadway of Avenue 52 from Calle Limon to Tyler Street/Industrial Way with a new 3-span, 348 feet long overhead structure to accommodate an ultimate 6- lane corridor concept, widening of Grapefruit Boulevard and extension of Sunset Drive reconnecting Avenue 52 to Grapefruit Boulevard. The project also includes major utility relocations (jack and bore 36-inch steel casing for installation of 18-inch sewer line), drainage, MSE retaining walls, pavement, curb and gutter, sidewalks, related , 4 new traffic signals for intersection improvements. Reconstruction some commercial driveways, and UPRR coordination on flagging during construction, crossing panels and signal removal work.

The project will also include utility relocations, drainage modifications, signing and striping, traffic handling, and replacement planting.

CITY intends to advertise, award and administer one construction contract for this project. The successful consultant firm will provide the construction management and support services.

Services

Services are anticipated to generally include, but are not limited to the following: participation in the evaluation of scheduling of the proposed project; constructability review; construction project advertising, bid analysis, and award; construction inspection; construction surveying, materials testing, landscape inspection, contractor interface and contract administration; office engineering; public outreach services and other assorted duties as appropriate in managing construction of a capital railroad grade separation improvement project.

It is expected that the Consultant will assign a Project Manager to coordinate all contract and personnel activities for all phases of construction. Resident Engineer(s) and inspection personnel may be assigned to direct and coordinate all project specific field activities and responsibilities as needed for satisfactory performance on the project. The

Consultant is expected to provide a Survey Project Manager, and Materials Testing Project Manager to administer the construction support services requested herein and to assign qualified field personnel to perform the requested services. Furthermore, the Consultant shall provide a public outreach liaison to assist the City's staff.

Insofar as the Consultant's approach described in the Proposal, the scope of responsibility and the total number of personnel assigned to each phase is left to the discretion of the Consultant. The Proposal shall include a staffing plan, an organization chart and a resource loaded schedule that will establish the firm's ability to adequately and appropriately staff and manage the project.

The City anticipates that the total contract will be approximately 24 months in duration, with preconstruction services starting in November 2013, construction starting no later than December 2013 and ending in April 2015 followed by closeout activities not exceeding four months. The estimated construction capital cost of the project is about \$24 million

CONSULTANT shall provide qualified construction management and inspection, materials testing, construction surveying and public relations personnel to perform a wide variety of construction management, support and contract administration duties as outlined in this Scope of Services for the Project.

CITY has designated a Project Manager to coordinate all construction activities. Mr. Jonathan Hoy, City Engineer

The CONSULTANT shall report to and receive direction from CITY through the City Engineer, or his designees. The City Engineer is responsible for coordination of all CITY construction activities and for coordinating the efforts of the total construction team. The City Engineer will be the main contact and primary source of information between CITY, cities, outside agencies, supporting consultants and the public for the construction projects.

B. PERFORMANCE REQUIREMENTS

Construction Management: CONSULTANT shall furnish a Project Manager to coordinate CONSULTANT operations with CITY. The Project Manager shall be licensed as a Professional Civil Engineer in the State of California at the time of proposal submittal through the duration of the contract. The Project Manager shall be responsible for all matters related to CONSULTANT personnel and operations. The Project Manager may not serve as the Resident Engineer. The Resident Engineer shall be assigned to direct and coordinate construction activities under this contract. Other Assistant Resident Engineers may be assigned to each specific project responsibilities as needed. The Resident Engineer shall be a Civil Engineer registered in the State of California and shall be in responsible charge of construction management and construction activity within the Project.

The number of CONSULTANT personnel assigned to the Project will vary throughout the duration of the contract. CONSULTANT personnel will be assigned, in varying levels

of responsibility, as needed by the CONSULTANT to meet the Project schedule, Project requirements, and construction activities.

Resumes of personnel must be submitted to CITY for review and approval prior to assignment to the Project. CITY and CONSULTANT will jointly determine the quality and quantity of services that are required by CONSULTANT personnel. Personnel selected for assignment by CONSULTANT shall be made available for personal interviews prior to acceptance by CITY. If, in the opinion of CITY, an individual lacks adequate experience, the individual may be rejected or may be accepted on a trial basis until such time the individual's ability to perform the required services has been demonstrated. If, at any time, the performance of CONSULTANT personnel is unsatisfactory to CITY, CITY may release him/her by written notice and may request another qualified person be assigned.

If CONSULTANT personnel are on leave of absence, the Project Manager shall provide equally qualified replacement personnel until the assigned personnel returns to the Project approved by CITY.

The typical workday includes all hours worked by the construction Contractor. If necessary, overtime for CONSULTANT personnel may be required. The construction Contractor's operations may be restricted to specific hours during the week, which shall become the normal workday for CONSULTANT personnel. The Project Manager, with prior concurrence from CITY, shall have the City to increase, decrease, or eliminate CONSULTANT personnel work hours dependent on the schedule and requirements of the construction Contractor. All overtime required by CONSULTANT personnel shall be approved and authorized by CITY prior to each occurrence.

CONSULTANT personnel shall be knowledgeable of and comply with all applicable local, state, and federal regulations. CONSULTANT personnel shall cooperate and consult with CITY, State, and City officials during the course of the Project. CONSULTANT personnel shall perform duties as may be required to assure that construction is being performed in accordance with the Project plans and specifications. CONSULTANT personnel shall keep accurate and timely records and document all work performed by the Contractor and CONSULTANT.

CONSULTANT shall monitor for Contractor's compliance with the labor standards provisions of the projects and the related wage determination decisions of the Secretary of Labor.

CONSULTANT personnel shall assist CITY and local agencies in obtaining compliance with the safety and accident prevention provisions of the Project. Local agencies will retain jurisdictional control for traffic control.

All services required herein shall be performed in accordance with California Department of Transportation guidelines, regulations, policies, procedures, manuals, and standards, except as noted in the special provisions.

<u>Materials Testing/Source Inspection:</u> The number of field testing/source inspection personnel assigned to the Project will vary throughout the duration of the construction contract. CONSULTANT certified materials testing personnel will be assigned as needed by the Resident Engineer to meet the required numbers and frequencies of testing based on schedule of the construction contractor.

Materials Testing/Source Inspection Services will be provided on an on-call basis. The duration of assignments could vary from a minimum of a few hours to the full term of the Project. CONSULTANT personnel will be available within one (1) day of written notification by CITY.

It is the intent of CITY to maintain a consistency of material testing quality throughout each phase of each project. CONSULTANT is therefore encouraged to provide, where ever and whenever possible, the same field personnel for the duration of construction of each project.

All CONSULTANT personnel will be knowledgeable of, and comply with, all applicable local, state, and federal regulations. All personnel shall cooperate and consult with CITY during the course of the contract; and perform other duties as may be required to assure that the construction is being performed in accordance with the Project plans and specifications. CONSULTANT's personnel will keep records and document the work as directed by the Resident Engineer.

All services required herein will be performed in accordance with Caltrans regulations, policies, procedures, manuals, and standards.

<u>Construction Surveying:</u> CONSULTANT will furnish surveying crew(s) to perform construction surveys for the Project. The number of survey crew(s) assigned to the Project may vary throughout the duration of the construction contract to meet the Project needs. CONSULTANT personnel will be assigned as needed by the Resident Engineer to meet the schedule of the construction contractor.

Construction surveying services will be provided on an on-call basis. It is the intent of CITY to maintain a consistency of construction survey quality throughout each phase of each project. Therefore, CONSULTANT is encouraged to provide the same field personnel for the duration of construction. It is important that the Field Party Chief(s) assigned to a project be completely familiar with the survey requirements and the assignments for the Project.

CONSULTANT personnel will:

- Be knowledgeable of, and comply with all, applicable local, Caltrans, state, and federal regulations.
- Cooperate and consult with CITY officials during the course of the contract.
- Perform duties as may be required to assure construction is performed in accordance with the Project plans and specifications.
- Keep records and document work as directed by the Resident Engineer.

On days when work is not performed by the construction contractor, such as rainy or unsuitable weather days, CONSULTANT will not provide services unless authorized by the Resident Engineer. Construction material testing and surveying will not be performed when conditions such as weather, traffic, and other factors prevent safe and efficient operation.

Resumes of CONSULTANT personnel and certifications must be submitted to CITY for review. CONSULTANT personnel must be approved by CITY prior to assignment to a project. CITY and CONSULTANT will have the responsibility of determining the quality and quantity of work performed by CONSULTANT personnel. If, at any time, the level of performance of any CONSULTANT survey personnel is below expectations, CITY may release the survey crew member and request that another be assigned.

If CONSULTANT's survey crew personnel assigned to the Project is on a leave of absence, the Project Manager will provide an equally qualified replacement(s) until the original employee(s) returns to work. The replacement(s) will be required to meet all the requirements of the permanently assigned employee(s).

All services required herein will be performed in accordance with Caltrans regulations, policies, procedures, manuals, and standards.

Public Outreach Services:

CONSULTANT shall furnish a Public Outreach Manager to coordinate with the CITY and Resident Engineer on construction operations. CONSULTANT shall assist the CITY on public outreach effort. The CONSULTANT shall furnish a minimum of one Spanish translator to effective perform the required public outreach tasks. This will be a targeted approach with incremental outreach based on construction schedule and staging.

C. DUTIES AND RESPONSIBILITIES

- 1. Pre-construction Services
 - a. Schedule

CONSULTANT shall review the proposed Project schedule, compare it to the Project plans and specifications, and provide recommendations to CITY, as appropriate, to ensure efficiency of Contractor and CONSULTANT operations and safe and expeditious completion of the Project.

- b. Budget
 - CONSULTANT shall review the Project estimate and provide recommendations to CITY, as appropriate, to ensure efficient utilization of funds and control of project costs.
- c. Constructability Review CONSULTANT shall review Project plans and special provisions for possible errors and deficiencies and report such findings to CITY in a format provided by CITY.
- 2. Bid Process
 - a. Bid Documents

CONSULTANT shall assist CITY, as requested, with the following tasks:

i. Review of bid documents

ii. Preparation of bid tabulations

b. Pre-construction Meetings

CONSULTANT shall assist CITY in conducting one, or more, preconstruction meetings with all involved parties on the Project. Parties may include, but are not limited to, the Contractor, design engineer, Caltrans, County and City staff, utility companies, and developers.

c. Contract Award

CONSULTANT shall assist CITY, as requested, with the following tasks:

- i. Review bid for completeness and responsiveness
- ii. Perform bid analysis
- iii. Development of contractor payment schedules, and other procedural items.
- iv. Checking Contractor references, licenses, insurance, and sureties.
- v. Coordination with prospective Contractor for award of construction contract(s).

All processes will be consistent with procedures outlined by the California Department of Transportation for Special Funded Programs and Local Assistance Procedure Manuals.

3. Project Administration

- a. CONSULTANT shall administer Project construction contracts using Caltrans Construction Manual as a guideline.
- b. CONSULTANT shall conduct regular Project coordination meetings with Contractor, CITY, local agencies, and design engineer, as appropriate.
- c. CONSULTANT shall prepare Contractor progress payments and maintain payment records and supporting documentation. All progress payments shall be reviewed by CITY for approval.
- d. CONSULTANT shall provide reports as needed to comply with specific funding requirements.
- e. CONSULTANT shall establish and maintain Project records in accordance with the Caltrans Construction Manual. Project record keeping shall include, but are not limited to, correspondence, memoranda, contract documents, change orders, claims, CITY and engineer directives, meeting minutes, shop drawings, supplementary drawings, and requests for payment. CONSULTANT shall maintain a record of the names, addresses, and telephone and fax numbers of the Contractors, subcontractors, and principal material suppliers.
- f. CONSULTANT shall establish and maintain a filing system in hard copies files and in electronic forms for each Project using the Caltrans Construction Manual as a guideline.
- g. CONSULTANT shall monitor Contractors' construction schedules on an ongoing basis and alert CITY to conditions that may lead to delays in completion of the Project.
- h. CONSULTANT shall prepare and submit a monthly Activity Summary Report for the Project in a format approved by CITY. The activity report shall include among other items status of SWPPP issues, RFIs, contract change orders, and notice of potential claims; construction activities completed,

- ongoing, and upcoming; status of Project budget and schedule, and other highlights and critical issues.
- i. CONSULTANT shall review and ensure compliance with environmental requirements.
- j. CONSULTANT shall participate in partnering sessions with the Contractor, and CITY, as required.
- k. CONSULTANT shall ensure that the Project meets all provisions of the Caltrans Quality Assurance Program Manual.
- 1. CONSULTANT shall review Contractors' certified payroll records and ensure compliance with the requirements of the construction contract.
- m. CONSULTANT shall ensure that the Project meets all provisions of the Storm Water Pollution Prevention Plan (SWPPP).
- n. CONSULTANT shall assure that the Project meets all applicable regulations of the Air Quality Management District (AQMD).
- o. CONSULTANT shall maintain redlined as-built plans on an ongoing basis throughout the duration of the Project. Redlined plans shall show all changes made to the original contract plans, each change identified with the name of the approver, date of change approval, and CCO number, if applicable
- p. CONSULTANT shall procure and continuously maintain Commercial general liability (CGL) insurance with a limit of not less than \$2,000,000 each occurrence and an aggregate limit of not less than \$4,000,000. CGL insurance must be written on ISO occurrence form CG 00 0 I 12 04 (or a substitute form providing equivalent coverage).
 - The policy must also contain the following endorsement, which must be stated on the certificate of insurance: "Contractual Liability Railroads" ISO form CG 24 17 1 0 0 I (or a substitute form providing equivalent coverage) showing "Union Pacific Railroad Company Property" as the Designated Job Site.

4. Construction Coordination

- a. CONSULTANT shall provide a qualified Resident Engineer to effectively manage the Project.
- b. CONSULTANT Resident Engineer shall act as a primary day-to-day contact between Contractor, CITY, CONSULTANT's construction surveyor, CONSULTANT's materials inspector, and utility companies. CONSULTANT may, when requested by CITY, act as point of contact between design engineers, cities, and the public. CONSULTANT shall ensure coordination with property owners adjacent to Project right-of-way to ensure timely communication regarding property-condition survey and construction activities and scheduling.
- c. CONSULTANT shall maintain regular contact with CITY's Project/Construction Manager.
- d. CONSULTANT shall coordinate utility relocations with utility companies and their designees, as well as the utility inspector.
- e. CONSULTANT shall proactively review Project plans and special provisions for possible errors and deficiencies prior to construction of any specific element and report such findings to CITY. Should CITY determine that changes are necessary, CONSULTANT shall assist in implementation and processing of change orders in accordance with contract documents.

- f. CONSULTANT shall proactively review Project plans and special provisions; monitor, coordinate, and track construction progress schedule and RFIs; and communicate with various agencies prior to construction of any specific elements to ensure the Project proceeds on schedule and according to the order of work in the plans and special provisions. CONSULTANT shall expedite work, as required, to maintain schedule in conjunction with the overall construction staging program.
- g. CONSULTANT shall coordinate review of shop drawings and Requests for Information (RFI) with the Construction Manager. CONSULTANT shall log and track all submittals and requests.
- h. CONSULTANT shall provide a qualified SWPPP Coordinator who along with the Resident Engineer shall review and certify contractor prepared Storm Water Pollution Prevention Plans (SWPPP) and coordinate approval with CITY and the State Water Resource Control Board. The SWPPP Coordinator shall be at a minimum a Qualified Storm Water Pollution Prevention Plan (SWPPP) Developer (QSD) and a Qualified SWPPP Practitioner (QSP). CONSULTANT shall provide at a minimum weekly SWPPP monitoring and shall cooperate with all monitoring agency inspections and field reviews.
- i. CONSULTANT shall coordinate the implementation of any changes with the Construction Manager and the design engineer.
- j. CONSULTANT shall review, forward the plans and calculations to UPRR for review and concurrence. CONSULTANT shall approve falsework and shoring plans per Caltrans and UPRR standards.
- k. CONSULTANT shall review and approve Traffic Control Plans and forward to CITY for Caltrans/City/County approvals, as necessary.
- 1. CONSULTANT shall coordinate all Project construction activities with other on-going projects within and adjacent to the Project limits.

5. Construction Inspection

- a. CONSULTANT shall coordinate all required inspections necessary for the Project. CONSULTANT shall ensure that appropriate City and local agencies are notified and present as required throughout the Project. CONSULTANT shall notify CITY immediately regarding any directives, recommendations, notices, etc. received from agencies other than CITY.
- b. CONSULTANT shall perform daily on-site observations of the progress and quality of construction to determine if the work being performed is in general conformance with the contract documents, all applicable laws, codes, and ordinances.
- c. CONSULTANT shall exercise reasonable care and diligence to discover and promptly report to CITY any and all defects or deficiencies in the materials or workmanship used in the Project.
- d. CONSULTANT personnel assigned to the Project shall be thoroughly familiar with Caltrans Standard Specifications, Caltrans Standard Plans, Caltrans Erosion Control requirements, and safety standards. CONSULTANT personnel shall have the ability to read and interpret construction plans and specifications. CONSULTANT personnel shall also have knowledge of State of California Construction Safety Orders (CalOSHA) and traffic control

- practices as specified in the California Manual on Uniform Traffic Control Devices (California MUTCD).
- e. CONSULTANT personnel shall be thoroughly familiar with the construction requirements of Caltrans' Storm Water Pollution Prevention Program.
- f. Assignments to be performed by CONSULTANT personnel shall include, but are not limited to, the following:
 - i. Paving and subgrade inspection, sub-surface & finish surface drainage inspection, structures and foundation inspection, electrical inspection for traffic, and irrigation control equipment, signing and striping inspection, quantity calculations, checking grade and alignment, construction traffic control, soil amendments and plant material identification & quality control, hardscape inspection, trenching & irrigation inspection and duties that may be required to determine that construction of the Project is being performed in accordance with the contract documents.
 - ii. Identifying actual and potential problems associated with the Project and recommending sound engineering solutions.
 - iii. Identifying common plant diseases and/or pests together with their respective eradication techniques, directing of plant adaptability requirements along with proper planting & pruning techniques, and avoiding potential problems associated with the Project by recommending sound engineering solutions.
 - iv. Maintaining awareness of safety and health requirements. Monitoring Contractors' compliance with applicable regulations and construction contract provisions for the protection of the public and Project personnel.
 - v. Preparing complete and accurate daily reports, calculations, project records, payment quantity documents, reports, and correspondence related to Project activities.
 - vi. Preparing construction sketches, drawings, and cross-sections, as necessary.
 - vii. Assisting in the preparation of as-built plans.
 - viii. Providing inspections for environmental compliance.
 - ix. Maintaining awareness of water discharge requirements. Monitoring Contractors' compliance with applicable regulations and construction contract provisions.
 - x. Monitoring Contractors' compliance with applicable regulations required by AQMD.
 - xi. Other duties as may be required or reasonably requested.

6. Project Support

a. Construction Surveys

CONSULTANT shall perform construction surveying services, field calculations, and home office calculations to support construction of the Project. CONSULTANT may be requested to review available survey data, construction plans, and right-of-way plans to confirm compatibility and to identify discrepancies prior to and during construction of proposed projects. The Resident Engineer will assign survey work to the CONSULTANT by

issuing a "Request for Survey Services". Requests may include, but not be limited to, the following types of surveys and related services:

- i. Construction Surveys
 - CONSULTANT shall assist the Resident Engineer in all phases of construction staking and calculations as needed.
 - a) Survey calculations and adjustments shall be performed with established and computed coordinates based on the California Coordinate System.
 - b) Cross-section data collection shall be performed by conventional and terrain line interpolation survey methods.
 - c) Survey data will include topography, cross-section, and other survey data in computer formats compatible with the Caltrans computer survey and design systems.
 - d) Prepare and maintain survey documents. Survey documents include survey field notes, maps, drawings, and other survey documents.
 - e) Perform construction staking per Caltrans Survey Manual Construction Surveys. Construction staking shall include lines and grades for drainage inlets and structures.
 - f) Monitor for settlement, if required.
 - g) Global Positioning Satellite (GPS) equipment shall be made available if required by CITY.

ii. Right of Way Lines

Existing right of way and easements will be established from Local Agency's record information and existing monumentation.

- a) Right of way monumentation shall be renewed and restored in accordance with Section 10.4 of the Caltrans "Survey Manual" and the State of California Land Surveyor's Act.
- b) Corner records and records of surveys shall be prepared and filed in accordance with the applicable standards and the State of California Land Surveyor's Act and the California Subdivision Map Act.
- c) Perpetuate existing monumentation, which includes restoring, renewing, referencing, and resetting existing boundary related monumentation. In addition, stake areas where construction disturbs the existing right of way, preparing and filing required maps and records.

New right of way and easements will be established from plans, right of way maps, utility drawings, and Local Agency record information, and existing monumentation.

- d) Right of Way Surveys, which includes research and preparation filing of required maps and records. In addition, locate and set monuments for right or way and easement lines, staking for right of way and easement fences.
- e) Final monumentation, which includes setting of centerline points of control upon completion of construction.

iii. Control Survey

Includes Project control surveys, aerial mapping control surveys, horizontal and vertical control surveys. In addition control surveys will include restoration, renewal, reference, relocation, and resetting of existing control monumentation. The CONSULTANT will be required to provide horizontal and vertical control at the end of each bridge.

CONSULTANT will provide all necessary Project related surveys and construction staking, including horizontal and vertical control, right of way, and easements. CONSULTANT shall coordinate all staking and verify accuracy. CONSULTANT shall ensure timely coordination of all staking requests from the Contractor.

b. Materials Testing/Source Inspection Services

- i. CONSULTANT will provide experienced personnel, equipment, and facilities to perform various construction materials sampling and testing. Laboratory and field materials testing will be used to ensure that structure and roadway construction work conforms to California State Department of Transportation (Caltrans) standards, specifications, and special provisions for material quality and workmanship.
- ii. All field and laboratory testing is to be performed in accordance with California Test Methods. The minimum required testing frequencies are per Caltrans Construction Manual.
- iii. CONSULTANT will be responsible for the accuracy and completeness of all test data compilation and results.

c. Public Outreach

- i. General Public Outreach Plan
 - a) CITY's primary goal is to assure the public that CITY is a public agency that delivers quality transportation projects and trustworthy, accurate and timely public information.
 - b) CONSULTANT shall assist the CITY on public outreach effort. This will be a targeted approach with incremental outreach based on construction schedule and staging. The primary target audiences identified for this Project include, but are not limited to:
 - i) Local Agencies
 - ii) City Council
 - iii) Emergency Service Providers
 - iv) School Transportation Coordinator(s)
 - v) Local Business Community
 - Specific businesses with expanding priority based on proximity to work zone and detours
 - Chamber of Commerce
 - vi) Commuters
 - vii) Recreational Travelers
 - viii) Trucking Industry

ix) Local media

- c) In the weeks prior to the selection of a construction contractor, CITY may coordinate an Emergency Responders Project Briefing to highlight the Project details and possible access challenges for consideration by the Project team.
- d) Following the emergency responders briefing, CITY may coordinate a Chamber of Commerce Project Briefing to highlight the Project benefits, possible construction schedule and traffic management plan.
- e) Just prior to the start of field construction activities, CITY and CONSULTANT (includes all PR subs) may coordinate a groundbreaking media event with the LOCAL AGENCY to ceremoniously open the Project.
- f) Prior to construction beginning, CITY and CONSULTANT may coordinate a community meeting to share Project information, construction scheduling, detour information and expected challenges with the general public.
- g) Near the completion of the construction Project, CITY and CONSULTANT will coordinate a ribbon-cutting media event. CONSULTANT will be called upon in a similar fashion to the groundbreaking event.
- h) At various stages throughout the Project, CITY will request support from CONSULTANT for the following items:
 - i) Establish and maintain stakeholder and/or 'interested parties' list(s) used for sharing Project updates during Project construction. May need to be filtered to specific audiences (i.e. emergency responders, city government, etc.)
 - ii) Development of a Project fact sheet (include Project description, Project budget, Project schedule, CITY contact information, LOCAL AGENCY contact information, photos, logos, etc.)
 - iii) Emergency notices when needed.
 - iv) Develop web content for project tab on CITY website. This page should include same elements of fact sheet with expanded detail when possible. If the information is dynamic, please provide updates to CITY Public Information Office for approval prior to submitting to webmaster.
- i) All media inquiries shall be directed to the City Engineer. CONSULTANT may be called up on to develop (with input from CITY) and maintain a task list of deliverables for the public outreach event. CONSULTANT will acquire the necessary items authorized for the event. CONSULTANT will be responsible for set up and breakdown of the event site.

d. Permits

CONSULTANT shall review the Project for permit compliance and coordinate with CITY and the design engineer to ensure that necessary

permits are obtained. CONSULTANT shall assist CITY in the coordination, timely processing and verification of approval for all permits. CONSULTANT shall maintain permits and permit documentation on site.

7. Cost and Schedule

- a. CONSULTANT shall monitor and track the following:
 - i. Contract pay item quantities and payments
 - ii. Contract change orders
 - iii. Supplemental work items
 - iv. Agency furnished materials
 - v. Contingency balance
 - vi. Project budget
- b. CONSULTANT shall review and monitor Contractor's schedule and inform CITY of any significant changes or deviations in the schedule.
- c. CONSULTANT shall provide and maintain a Project staffing plan of field office personnel based on the Contractor submitted baseline schedule update. In cooperation with CITY, the staffing plan shall be periodically updated to reflect Project progress and needs.

8. Contract Change Orders and Claims

- a. CONSULTANT shall receive and evaluate requests for changes and/or substitutions by the Contractor. Contract Change Orders submitted to CITY shall be accompanied by CONSULTANT recommendations. Where applicable, CONSULTANT shall convey proposed changes to design engineer, or other Project consultants. If the requested changes are accepted, CONSULTANT shall negotiate and prepare appropriate Contract Change Orders.
- b. CONSULTANT shall attempt to avoid unnecessary Contract Change Orders. When a Contract Change Order is necessary, CONSULTANT shall consult with CITY prior to its preparation. Unless directed otherwise by CITY, the preferred method of payment for Contract Change Orders should be as follows
 - i. Agreed Price
 - ii. Adjustment in compensation to a bid item
 - iii. Time and materials or Force Account
- c. CONSULTANT shall perform force account analysis to validate cost submitted by the Contractor for contract change orders with agreed unit price, lump sum price, and adjustment in components. Analysis shall be based on realistic production and resource needs to complete the work.
- d. CONSULTANT shall attempt to identify all potential claims, track and monitor unresolved claims. The CONSULTANT shall implement appropriate claims avoidance processes where in the best interests of CITY as determined by CITY's Construction Manager.

e. CONSULTANT shall assist CITY, as requested, in the identification, resolution, and final disposition of claims filed by the Contractor or third parties against CITY or the Project.

9. Safety

In addition to the requirements specified elsewhere in this contract, the following shall also apply:

- a. CONSULTANT shall implement and conduct a comprehensive safety program including regular tail-gate safety meetings for CONSULTANT personnel.
- b. CONSULTANT shall comply with State of California Construction Safety Orders and provisions of the Caltrans Construction Manual.
- c. CONSULTANT shall provide appropriate safety training for all CONSULTANT field personnel.
- d. CONSULTANT shall provide all necessary safety equipment as required for CONSULTANT personnel.

10. Project Close Out

- a. CONSULTANT shall prepare a list of items to be completed and/or corrected by the Contractor for final completion of the Project.
- b. CONSULTANT shall collect and furnish as-built information to the design engineer for preparation of as-built drawings including pre-stress drawings and pile logs, as applicable.
- c. CONSULTANT shall review and verify completeness of as-built drawings.
- d. CONSULTANT shall conduct a final walk-through with CITY, Local Agencies, Contractors, and design engineers.
- e. CONSULTANT shall prepare final construction reports including the Project Completion Report.
- f. CONSULTANT shall prepare and deliver to CITY all Project files.
- g. CONSULTANT shall assist CITY and Contractor in obtaining final release of all Project permits.
- h. Project closeout services will be completed within two months of project acceptance.

D. DELIVERABLES

- 1. Inspector daily reports, extra work diaries and Resident Engineers' daily diaries.
- 2. Monthly Project Activity Summary Reports.
- 3. Monthly Contractor progress payments, back-up documentation, and Contractor payment records.
- 4. Contractor final payment documents, delivered to CITY no later than ten (10) working days after acceptance by CITY of the completed construction Project.
- 5. Project Completion Report documents per Caltrans Local Assistance Procedure Manual and Caltrans Construction Manual.
- 6. All Project files, Project reports, correspondence, memoranda, shop drawings, Project logs, change order data, claims and claim reports, and Contractor payment records.

- 7. Certified payrolls and fringe benefit statements for all employees, CONSULTANT and Contractor, who are subject to the State and/or Federal prevailing wage rates.
- 8. All material test results will be provided in accordance with the applicable Standard Specifications and Special Provisions, and test methods. Failing tests will be immediately reported to the Resident Engineer or Structures Representative. All test results will be recorded on the appropriate forms. The test documents will be legible and show the identity of the tester where appropriate. A notebook containing all test results and reports will be maintained by CONSULTANT throughout the duration of the Project and delivered to CITY with the Project files.
- 9. Unless otherwise specified in the survey request, the deliverables shall conform to the following:
 - a. Survey points, lines, and monuments shall be established, marked, identified, and referenced as required by survey request and requirements herein.
 - b. Survey notes, drawings, calculations, and other survey documents and information shall be completed as required by the survey request and the requirements herein.
 - c. All original survey documents resulting from this contract, including original field notes, adjustment calculations, final results, and appropriate intermediate documents, shall be delivered to the Resident Engineer and shall become the property of CITY. A copy of all survey documents furnished by CITY shall be retained by CONSULTANT for future reference.
 - d. When the survey is performed with a total station survey system, the original field noes shall be a hard copy in a readable format of the data (observations) as originally collected and submitted by the survey party. The hard copy shall be signed by the Party Chief. If the Party Chief is not licensed, the person in "responsible charge" will be required to sign.

E. EQUIPMENT AND MATERIALS TO BE PROVIDED BY CONSULTANT

- 1. CONSULTANT shall provide all necessary equipment including software, materials, supplies, miscellaneous tools, phones, vehicles, and safety equipment required for its personnel to perform the services accurately, efficiently, and safely. Only those items listed in Attachment B, CONSULTANT Cost Proposal, shall be reimbursed by CITY.
- 2. CONSULTANT personnel shall be provided with vehicles suitable for the location and nature of the work involved. Vehicles shall be equipped with flashing yellow lights, either permanently or temporarily affixed.
- 3. CONSULTANT personnel shall be provided with a cellular phone, or other means to assure full-time communication.
- 4. CONSULTANT personnel shall be provided with all applicable standard plans, specifications, and other standards as appropriate (see item G below).
- 5. For Materials Testing/Source Inspection, CONSULTANT and its staff will be fully equipped at all times to perform the services required, including but not limited to the following:
 - a. An on-site mobile laboratory or laboratory in close proximity to the Project will be required. The type and location of the lab should be such that it can meet the needs of the Project in an efficient, time effective manner. The

- laboratory is to be fully staffed, equipped, and supplied to conduct all required soils, materials, and concrete breaking tests in a timely manner.
- b. Field personnel will be provided with all necessary safety equipment to permit work to be performed safely and efficiently within operating highway and construction zone environments.
- c. All equipment to be calibrated as per Section 3-10 and 3-11 of Caltrans' Quality Assurance Program Manual.
- 6. For construction surveying, CONSULTANT and staff shall have adequate equipment and supplies to complete the required survey work.

F. MATERIALS TO BE FURNISHED BY CITY

- 1. CITY will provide all Project construction documents including plans, special provisions, and all other reports, designer prepared resident engineer files, and contracts.
- 2. CITY will provide copies of all previously secured permits and Project authorizations.
- 3. Appropriate forms for recording test data in accordance with Caltrans practices and procedures outlined in the "Manual of Test".
- 4. CITY intends to have the construction contractor to provide a field office trailer.

G. STANDARDS

All construction inspection, surveys, materials sampling and testing, and contract administration shall be in accordance with the Project bid documents, special provisions, plans, and current Caltrans Manuals including:

- 5. Construction Manual and its revisions
- 6. Bridge Construction Records and Procedures Manual
- 7. Quality Assurance Program Manual
- 8. California Manual on Uniform Traffic Control Devices (California MUTCD)
- 9. Caltrans Standard Specifications and Standard Plans
- 10. Caltrans Storm Water Pollution Prevention Plan (SWPPP) and Water Pollution Control Program (WPCP) Preparation Manual
- 11. Manual of Test (3 volumes)
- 12. Caltrans Survey Manual
- 13. Caltrans Survey Staking Procedures Manual
- 14. Work not covered by the manuals shall be performed in accordance with accepted professional standards.

Surveys performed by CONSULTANT shall conform to the requirements of the Land Surveyor's Act. In accordance with the Land Surveyor's Act, "responsible charge" for the work shall reside with the Licensed Land Surveyor or a pre-January 1, 1982, Registered Professional Civil Engineer in the State of California.

Unless otherwise specified in the survey request, control surveys shall conform to second order (modified) accuracy standards as specified in the Caltrans "Survey Manual".

Additional standards for specific survey work may be included in the applicable request for survey. Such standards supplement the standards specified herein. If additional

standards conflict with the standards specified herein, the "Survey Request's" standard shall govern.

The Resident Engineer and CITY will decide all questions, which may arise as to the quality or acceptability of deliverables furnished and work performed for this contract. Any CONSULTANT employee who does not perform adequately will be replaced if directed by the CITY Construction Manager.

H. AVAILABILITY AND WORK HOURS

The typical workday includes all hours worked by CITY's construction Contractor including nights and weekends. The construction Contractor's operations may be restricted to specific hours during the week, which will become the normal workday for CONSULTANT's personnel. On days when work is not performed by the construction contractor, such as rainy or unsuitable weather days, CONSULTANT services will not be provided unless authorized by the CITY Construction Manager.

Unless otherwise directed by CITY, the normal work week will consist of 40 hours. From time to time, overtime may be required. However, overtime will be worked only when approved in writing by CITY.

I. LIMITATIONS TO THE CONSULTANT AUTHORITY

CONSULTANT does not have the authority to:

- 1. Authorize deviations from the contract documents.
- 2. Approve substitute materials or equipment; except as authorized in writing by CITY.
- 3. Conduct or participate in tests or third party inspections; except as authorized in writing by CITY.
- 4. Assume any of the responsibilities of the Contractors, Contractors' Superintendent, or subcontractors.
- 5. Exercise control over or be responsible for construction means, methods, techniques, sequences, procedures, or safety precautions.
- 6. Communicate directly with subcontractors or material suppliers without the prior consent of the Contractor.
- 7. Verbally authorize or approve change orders or extra work for the Project.
- 8. Offer or receive incentives, inducements, or other forms of enumeration to or from the Contractor to perform services or work outside the terms of any executed contracts for this Project.

J. THIRD PARTY RELATIONSHIPS

This Contract is intended to provide unique services for a specific project. In the development of the Project, CITY has worked closely with various professional consultants, agencies, and others in the preparation of the construction documents and other Project related materials. CITY, however, is solely responsible for and will be the sole point of contact for all contractual matters related to the Project. CONSULTANT shall take direction only from CITY and shall regularly inform only CITY of Project progress, outstanding issues, and all Project related matters.

During the course of the Project, CONSULTANT may find occasion to meet with Caltrans, City or County representatives, the design engineer, Project consultants, or other third parties who have assisted with the Project. These entities may, from time to time, offer suggestions and/or recommendations regarding the Project or elements of the Project. While CITY enjoys a close relationship with and has considerable confidence in the capabilities of these other parties, CONSULTANT shall not act on any suggestions, solicited or unsolicited, without obtaining specific direction from CITY. All oral and written communication with outside agencies or consultants related to the Project shall be directed only to CITY. Distribution of Project related communication and information shall be at the sole discretion of CITY representatives.

K. CONSTRUCTION SITE SAFETY

In addition to the requirements specified elsewhere in this contract, the following also will apply.

- 1. CONSULTANT will conform to the safety provisions of the Caltrans Construction Manual.
- 2. CONSULTANT's field personnel will wear white hard hats with proper suspension, CalOSHA compliant safety gears, sleeved shirt, long pants, and leather boots with ankle support and rubber soled shoes at all times while working in the field.
- 3. CONSULTANT will provide appropriate safety training for all CONSULTANT's personnel, including work on and near highways.
- 4. All safety equipment will be provided by CONSULTANT.

L. BASIS FOR SURVEY AND MONUMENT STAKING

CITY will designate the existing horizontal and vertical control monuments that are the basis of CONSULTANT performed surveys. CITY will provide the California Coordinate System values and/or elevation values for these monuments. CONSULTANT shall adjust CONSULTANT performed surveys to be the designated control monuments and the values.

Monuments established by CONSULTANT shall be marked by CONSULTANT with furnished disks, plugs, tags. In addition, CONSULTANT shall identify CONSULTANT established monuments by tagging or stamping the monuments with the license or registration number of CONSULTANT'S surveyor who is in "responsible charge" of the work.

M. PERSONNEL QUALIFICATIONS AND RESPONSIBILITIES

The quantity and qualifications of field personnel to be assigned will be determined by the scope of the Project and the degree of difficulty of required tasks to be performed. All personnel and personnel assignments are subject to approval by CITY. While some areas of responsibility may overlap, as a guideline, CONSULTANT personnel assigned to the Project should have the following qualifications:

- 1. Project Manager
 - Project Manager with Coachella Valley experience is highly desirable. The Project Manager shall be licensed as a Professional Civil Engineer in the State of California at the time of proposal submittal through the duration of the contract.
 - a. A minimum of fifteen (15) years' project management experience on similar construction projects is desired.

- b. Accessible to CITY at all times during normal working hours.
- c. A thorough understanding of Caltrans construction practices and procedures.
- d. Previous construction management experience on at least one railroad grade separation project.
- e. The Project Manager will assume the following functional responsibilities:
 - i. Review, monitor, train, and provide general direction for CONSULTANT personnel.
 - ii. Assign personnel to projects on an as-needed basis.
 - iii. Administer personal leave.
 - iv. Prepare monthly reports for delivery to CITY.

2. Resident Engineer

- a. A minimum of ten (10) years' resident engineer experience on similar construction projects is desired.
- b. Licensed Professional Civil Engineer in the State of California.
- c. Ability to work independently, make effective decisions concerning construction work in progress, and solve field problems.
- d. Accessible to CITY at all times including weekends and holidays.
- e. A thorough understanding of Caltrans field methods, practices, and construction office procedures.
- f. Previous construction management experience on at least one railroad grade separation project.
- g. The Resident Engineer will assume the following functional responsibilities:
 - i. Monitor and provide daily direction to CONSULTANT Resident Engineers and inspection personnel.
 - ii. Assign field personnel to specific project tasks.
 - iii. Monitor and track Contractor progress.
 - iv. Prepare daily, weekly and monthly reports as required.
 - v. Coordinate utility relocations with appropriate agencies and the utility inspector.
 - vi. Act as prime field contact between various project Contractors and CITY's Construction Manager.

3. Assistant Resident Engineer

- a. A minimum of four (4) years' experience on similar construction projects is desired
- b. Licensed Professional Civil Engineer in the State of California.
- c. Ability to work independently, make effective decisions concerning construction work in progress, and solve field problems.
- d. Accessible to CITY at all times including weekends and holidays.
- e. Thorough understanding of Caltrans field methods, practices, and construction office procedures. The Assistant Resident Engineer shall act under the direction of the Resident Engineer and will assume the following functional responsibilities:
 - i. Monitor and provide daily direction to CONSULTANT inspection personnel.
 - ii. Assign field personnel to specific project tasks.
 - iii. Monitor and track Contractor progress.

- iv. Prepare daily, weekly and monthly reports as required.
- v. Coordinate utility relocations with appropriate agencies.

4. Lead Field Inspector

- a. A minimum of six (6) years' construction inspection experience in public works or similar projects or a four-year degree in the field of civil engineering, transportation and four years of similar construction experience is desired.
- b. Knowledge of Caltrans construction practices, physical characteristics and properties of highway construction materials, and approved methods and equipment used in making physical tests of construction materials.
- c. Ability to work independently, make effective decisions concerning construction work in progress, and solve field problems.
- d. Ability to direct the efforts of subordinate inspectors.
- e. Ability to use an automatic level and transit for the purpose of verifying line and grade.
- f. Understanding of Caltrans field and construction office procedures. The Lead Field Inspector will assume the following functional responsibilities:
 - i. Assist in inspections to assure compliance with contract plans, specifications, and special provisions on all phases of construction.
 - ii. Assist in the preparation of contract change orders, contract estimates, progress pay estimates, and other documents or reports required for the Project.
 - iii. Coordinate field testing of materials to monitor compliance with Project specifications and Caltrans Quality Assurance Program.
 - iv. Maintain accurate and timely Project records. Perform quantity calculations for progress pay estimates.
 - v. Perform analytical calculations such as basic earthwork, grading, profiles, and special staking procedures.
 - vi. Provide input for the redesign of facilities to fit existing field conditions.
 - vii. Monitor and track Contractor progress. Prepare daily, weekly, and monthly reports as required.

5. Field Inspector

- a. Two (2) years' construction inspection experience in public works or similar projects or a four-year degree in the field of civil transportation engineering is desired.
- b. Knowledge of construction practices, physical characteristics and properties of construction materials, and approved methods and equipment used in making physical tests of construction materials.
- c. Ability to work independently. Ability to make minor decisions concerning construction work in progress and to solve field and office problems.
- d. Ability to use an automatic level and transit for the purpose of verifying line and grade.
- e. Understanding of Caltrans construction methods and practices. The Field Inspector will assume the following functional responsibilities:

- i. Assist in inspections to assure compliance with contract plans, specifications, and special provisions on all phases of project construction.
- ii. Assist in preparation of contract change orders, contract estimates, progress pay estimates, and other documents or reports required for the Project.
- iii. Coordinate field testing of materials to monitor compliance with Project specifications and Caltrans Quality Assurance Program.
- iv. Perform quantity calculations for progress pay estimates and maintain Project records.
- v. Perform analytical calculations such as basic earthwork, grading, profiles, and special staking procedures.
- vi. Provide input for the redesign of facilities to fit existing field conditions.
- vii. Perform construction materials sampling.
- viii. Perform labor compliance interviews of the Contractors' personnel.

6. Structural Representative or Lead Structural Inspector

- a. A minimum of ten (10) years' of bridge or structural construction inspection as related to major public works projects and a four-year degree in civil engineering is desired.
- b. Licensed Professional Civil Engineer in the State of California.
- c. Knowledge of stress analysis, structural mechanics, and strength of materials.
- d. Knowledge of Caltrans construction practices and the physical characteristics and properties of various bridge construction materials including concrete.
- e. Experience in the following areas: foundations, pile driving, concrete prestressing, bridge deck construction, cast-in-place wall construction, falsework, and shoring.
- f. Ability to work independently. Ability to perform duties in the construction field office and effectively make decisions concerning construction work in progress and solving field problems.
- g. Ability to direct the efforts of subordinate inspectors.
- h. Ability to use an automatic level and transit for the purpose of verifying line and grade.
- i. Thorough understanding of Caltrans field methods, practices, and construction office procedures.
- j. Previous construction management experience on at least one railroad grade separation project.
- k. The Structural Representative shall assume the following functional responsibilities:
 - i. Assist in inspections to assure compliance with contract plans, specifications, and special provisions on all phases of structural construction such as bridges, foundations, walls, falsework, shoring, and drainage structures.
 - ii. Make grade, alignment, quantity, falsework, and shoring calculations.
 - iii. Assist in the preparation of contract change orders, contract estimates, progress pay estimates, and other documents or reports required for the Project. Coordinate the sampling and testing of construction materials to monitor compliance with contract specifications.

- iv. Monitor and track Contractor progress. Prepare daily, weekly, and monthly reports as required.
- v. Coordinate with Resident Engineer, as well as the Construction Staking and Material Testing consultants.
- vi. Direct the daily activities of subordinate inspectors.

7. Structural Inspector

- a. A minimum of two (2) years' of bridge design or structural construction inspection as related to Caltrans or major public works projects or a four-year degree in civil or structural engineering is desired.
- b. Knowledge of stress analysis, structural mechanics, and strength of materials.
- c. Knowledge of construction practices and the physical characteristics and properties of various highway bridge construction materials including concrete.
- d. Experience in one or more of the following areas: pile driving, concrete prestressing, bridge deck construction, retaining wall construction, falsework, and shoring.
- e. Ability to work independently and make minor decisions concerning construction work in progress and to solve field and office problems.
- f. Ability to use an automatic level and transit for the purpose of verifying line and grade.
- g. Understanding of Caltrans construction methods and practices.
- h. The Structural Inspector will assume the following functional responsibilities:
 - i. Assist in inspections to assure compliance with contract plans, specifications, and special provisions on all phases of structural construction such as bridges, foundation, walls, falsework, shoring, and drainage structures.
 - ii. Make grade, alignment, quantity, falsework, and shoring calculations.
 - iii. Assist in the preparation of contract change orders, contract estimates, progress pay estimates, and other documents or reports required for the Project.
 - iv. Sampling and testing of construction materials to monitor compliance with contract specifications and Caltrans Quality Assurance Program.

8. Office Engineer

- a. A minimum of two (2) years' experience as an office engineer on similar construction projects is desired.
- b. Knowledge of Caltrans Office of Highway Construction forms used to administer construction projects.
- c. Knowledge of Caltrans system of document organization.
- d. Knowledge of construction records and accounting procedures.
- e. Knowledge of documentation, procedures, and reporting for federally funded projects.
- f. Knowledge of laws and regulations governing the payment of prevailing wages.
- g. The Office Engineer will assume the following functional responsibilities:
 - i. Process monthly progress pay estimates, monthly status reports, extra work reports, and weekly statements of working days.

- ii. Prepare and process contract change orders.
- iii. Monitor construction budget and schedule.
- iv. Prepare, maintain, and/or file project documents including labor and equipment records, correspondence, memoranda, meeting minutes, claims, personnel records, labor compliance reports, and daily, weekly, and monthly reports.
- v. Perform routine calculations and checking of quantities.
- vi. Coordinate all office activities and functions with CITY representatives.

9. Materials Testing/Source Inspection Project Manager

- a. A minimum ten (10) years' project management experience on a similar highway/bridge construction project is desired.
- b. Licensed Civil Engineer in the State of California.
- c. Ability to use typical computer programs including word processing and spreadsheets.
- d. The materials testing project manager will assume the following functional responsibilities:
 - i. Review, monitor, train, and provide general direction for CONSULTANT's laboratory and field personnel.
 - ii. Assign personnel to projects on an as-needed basis in coordination with the Resident Engineer.
 - iii. Administer personal leave, subject to approval of the Resident Engineer.
 - iv. Prepare monthly reports for delivery to the Resident Engineer.
 - v. Provide direction, administration, and responsibility for Materials Certification per Caltrans Construction Manual, Section 8-01.
 - vi. Assist CITY and Resident Engineer in preparing the project specific Source Inspection Quality Management Plan (SIQMP) for Caltrans review and approval. (Reference Caltrans "Source Inspection Quality Management Plan (SIQMP Outline dated 04/17/12).
 - vii. Provide direction, administration, and responsibility for implementation of the approved SIQMP per Caltrans Construction Procedures Directive (CPD) 08-5 and FHWA Title 23 requirements.

Material testing personnel will be certified by a California Registered Civil Engineer as being experienced and competent in the test procedures required for the work involved (and possess a current certificate of proficiency (Form MR-0111) in accordance with Quality Assurance Program Manual (Section 3-5). Independent certification of Caltrans test procedures may be performed at the discretion of the CITY Construction Manager.

10. Materials Technicians

CONSULTANT personnel provided under this contract will have a variety of skills and experience appropriate for the level of tasks to be assigned. Field personnel shall be certified by Caltrans and should have a minimum of two (2) years' experience in conducting material sampling and testing of the type required for the projects involved and possess the following additional capabilities:

a. Have the ability to establish specific locations for appropriate tests when construction contract administration personnel are not available.

- b. Be familiar with construction practices and be fully aware of construction activities at the Project site.
- c. Have knowledge of and comply with safety and health regulations and requirements applicable to the Project.
- d. Specific qualifications for technicians are as follows:

11. Construction Surveying Project Manager

- a. A minimum ten (10) years' project management experience on similar construction projects is desired.
- b. Licensed Surveyor or pre-January 1, 1982 Registered Professional Engineer in the State of California.
- c. Accessible to the Resident Engineer and CITY at all times during normal working hours as specified in this Scope of Services.
- d. Under the direction of the Resident Engineer, the Project Manager will be responsible for:
 - i. Review, monitor, train, and provide general direction for CONSULTANT survey personnel.
 - ii. Assign personnel to projects on an as-needed basis.
 - iii. Administer personal leave, subject to approval of the Resident Engineer.
 - iv. Prepare monthly reports for delivery to the Resident Engineer.

12. Field Party Chief(s)

- a. The person(s) holding the position of Party Chief shall meet at least one of the following licensing requirements:
 - i. A licensed Land Surveyor in the State of California.
 - ii. A pre-January 1, 1982, Registered Professional Civil Engineer in the State of California.
 - iii. An experienced surveyor who serves as chief under the direction or supervision of a person who is a licensed Land Surveyor or pre-January 1, 1982 Registered Professional Civil Engineer in the State of California. The direction or supervision shall place the supervisor in "responsible charge" of the work. "Responsible Charge" is defined in Chapter 15 of the Business and Professions Code (the Land Surveyor's Act) and Title 16, Chapter 5, of the California Administrative Code (regulations adopted by the Board of Registration for Professional Engineers and Land Surveyors).
- b. The Party Chief(s) should have a minimum two (2) years' survey experience on similar construction projects and possess the following additional capabilities:
 - i. Thorough knowledge of construction survey practices and the ability to read and interpret plans and specifications.
 - ii. Ability to make effective decisions concerning field problems and work in progress.
 - iii. Familiarity with typical coordinate geometry computer programs.
 - iv. Familiarity with safety requirements for surveying near traffic.
- c. The Party Chief(s) will assume the following responsibilities:

- i. Perform construction staking services for Project construction.
- ii. Administer day to day activities for the survey party.
- iii. Perform analytical survey calculations for items such as grading, horizontal and vertical control, right of way, and minor in-field design.
- iv. Maintain continuous communication with the Resident Engineer, field personnel, and construction administration staff.

SECTION IV – PROPOSED PROFESSIONAL SERVICES AGREEMENT

SECTION V – CALTRANS/FEDERAL FORMS

Section V contains the following Caltrans Local Assistance forms:

- 1. Exhibit 10 F Certification of Consultant
- 2. Exhibit 10 I Notice to Proposers DBE Information
- 3. Exhibit 10 J Standard Contract Provisions for Subconsultant/DBE Participation
- 4. Exhibit 10 K Consultant certification of Contract Costs and Financial Management System
- 5. Exhibit 10 O1 DBE Commitment
- 6. Exhibit 10 O2 DBE Information
- 7. Exhibit 10 P Non-Lobbying Certification
- 8. Exhibit 10 V Non-Discrimination Clause

EXHIBIT 10-F CERTIFICATION OF CONSULTANT, COMMISSIONS & FEES

I HEREBY CERTIFY that I am the	, and duly authorized
representative of the firm of	, whose address is
	, and that, except as hereby
expressly stated, neither I nor the above firm that I repre	esent have:
	centage, brokerage, contingent fee, or other consideration oyee working solely for me or the above consultant) to
(b) agreed, as an express or implied condition for of any firm or person in connection with carrying	for obtaining this contract, to employ or retain the services ag out the contract; nor
	ation or person (other than a bona fide employee working contribution, donation, or consideration of any kind, for or is contract.
I acknowledge that this Certificate is to be made available (Caltrans) in connection with this contract involving parapplicable state and federal laws, both criminal and civil	ticipation of federal-aid highway funds, and is subject to
(Date)	(Signature)

 Distribution:
 1)
 Local Agency Project File (Original & Contract)

 2)
 DLAE (with contract copy)

EXHIBIT 10-I NOTICE TO PROPOSERS DBE INFORMATION

The Agency has established a DBE goal for this Contract of	%
OR	

The Agency has not established a goal for this Contract. However, proposers are encouraged to obtain DBE participation for this contract.

1. TERMS AS USED IN THIS DOCUMENT

- The term "Disadvantaged Business Enterprise" or "DBE" means a for-profit small business concern owned and controlled by a socially and economically disadvantaged person(s) as defined in Title 49, Code of Federal Regulations (CFR), Part 26.5.
- The term "Agreement" also means "Contract."
- Agency also means the local entity entering into this contract with the Contractor or Consultant.
- The term "Small Business" or "SB" is as defined in 49 CFR 26.65.

2. AUTHORITY AND RESPONSIBILITY

- A. DBEs and other small businesses are strongly encouraged to participate in the performance of Contracts financed in whole or in part with federal funds (See 49 CFR 26, "Participation by Disadvantaged Business Enterprises in Department of Transportation Financial Assistance Programs"). The Consultant must ensure that DBEs and other small businesses have the opportunity to participate in the performance of the work that is the subject of this solicitation and should take all necessary and reasonable steps for this assurance. The proposer must not discriminate on the basis of race, color, national origin, or sex in the award and performance of subcontracts.
- B. Proposers are encouraged to use services offered by financial institutions owned and controlled by DBEs.

3. SUBMISSION OF DBE INFORMATION

If there is a DBE goal on the contract, Exhibit 10-O1 *Consultant Proposal DBE Commitment* must be included in the Request for Proposal. In order for a proposer to be considered responsible and responsive, the proposer must make good faith efforts to meet the goal established for the contract. If the goal is not met, the proposer must document adequate good faith efforts. All DBE participation will be counted towards the contract goal; therefore, all DBE participation shall be collected and reported.

Exhibit 10-O2 *Consultant Contract DBE Information* must be included with the Request for Proposal. Even if no DBE participation will be reported, the successful proposer must execute and return the form.

4. DBE PARTICIPATION GENERAL INFORMATION

It is the proposer's responsibility to be fully informed regarding the requirements of 49 CFR, Part 26, and the Department's DBE program developed pursuant to the regulations. Particular attention is directed to the following:

A. A DBE must be a small business firm defined pursuant to 13 CFR 121 and be certified through the California Unified Certification Program (CUCP).

- B. A certified DBE may participate as a prime consultant, subconsultant, joint venture partner, as a vendor of material or supplies, or as a trucking company.
- C. A DBE proposer not proposing as a joint venture with a non-DBE, will be required to document one or a combination of the following:
 - 1. The proposer is a DBE and will meet the goal by performing work with its own forces.
 - 2. The proposer will meet the goal through work performed by DBE subconsultants, suppliers or trucking companies.
 - 3. The proposer, prior to proposing, made adequate good faith efforts to meet the goal.
- D. A DBE joint venture partner must be responsible for specific contract items of work or clearly defined portions thereof. Responsibility means actually performing, managing, and supervising the work with its own forces. The DBE joint venture partner must share in the capital contribution, control, management, risks and profits of the joint venture commensurate with its ownership interest.
- E. A DBE must perform a commercially useful function pursuant to 49 CFR 26.55, that is, a DBE firm must be responsible for the execution of a distinct element of the work and must carry out its responsibility by actually performing, managing and supervising the work.
- F. The proposer shall list only one subconsultant for each portion of work as defined in their proposal and all DBE subconsultants should be listed in the bid/cost proposal list of subconsultants.
- G. A prime consultant who is a certified DBE is eligible to claim all of the work in the Contract toward the DBE participation except that portion of the work to be performed by non-DBE subconsultants.

5. RESOURCES

- A. The CUCP database includes the certified DBEs from all certifying agencies participating in the CUCP. If you believe a firm is certified that cannot be located on the database, please contact the Caltrans Office of Certification toll free number 1-866-810-6346 for assistance.
- B. Access the CUCP database from the Department of Transportation, Office of Business and Economic Opportunity Web site at: http://www.dot.ca.gov/hq/bep/.
 - 1. Click on the link in the left menu titled *Disadvantaged Business Enterprise*;
 - 2. Click on Search for a DBE Firm link;
 - 3. Click on Access to the DBE Query Form located on the first line in the center of the page.

Searches can be performed by one or more criteria. Follow instructions on the screen.

6. MATERIALS OR SUPPLIES PURCHASED FROM DBES COUNT TOWARDS THE DBE GOAL UNDER THE FOLLOWING CONDITIONS:

- A. If the materials or supplies are obtained from a DBE manufacturer, count 100 percent of the cost of the materials or supplies. A DBE manufacturer is a firm that operates or maintains a factory, or establishment that produces on the premises the materials, supplies, articles, or equipment required under the Contract and of the general character described by the specifications.
- B. If the materials or supplies purchased from a DBE regular dealer, count 60 percent of the cost of the materials or supplies. A DBE regular dealer is a firm that owns, operates or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications and required under the Contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business. To be a DBE regular dealer, the firm must be an established, regular business that engages, as its principal business and under its own name, in the

- purchase and sale or lease of the products in question. A person may be a DBE regular dealer in such bulk items as petroleum products, steel, cement, gravel, stone or asphalt without owning, operating or maintaining a place of business provided in this section.
- C. If the person both owns and operates distribution equipment for the products, any supplementing of regular dealers' own distribution equipment shall be, by a long-term lease agreement and not an ad hoc or Agreement-by-Agreement basis. Packagers, brokers, manufacturers' representatives, or other persons who arrange or expedite transactions are not DBE regular dealers within the meaning of this section.
- D. Materials or supplies purchased from a DBE, which is neither a manufacturer nor a regular dealer, will be limited to the entire amount of fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on the job site, provided the fees are reasonable and not excessive as compared with fees charged for similar services.

EXHIBIT 10-J STANDARD CONTRACT PROVISIONS FOR SUBCONSULTANT/DBE PARTICIPATION

1. Subconsultants

- A. Nothing contained in this Contract or otherwise, shall create any contractual relation between the Agency and any subconsultants, and no subcontract shall relieve the Consultant of his/her responsibilities and obligations hereunder. The Consultant agrees to be as fully responsible to the Agency for the acts and omissions of its subconsultants and of persons either directly or indirectly employed by any of them as it is for the acts and omissions of persons directly employed by the Consultant. The Consultant's obligation to pay its subconsultants is an independent obligation from the Agency's obligation to make payments to the Consultant.
- B. Any subcontract in excess of \$25,000, entered into as a result of this Contract, shall contain all the provisions stipulated in this Contract to be applicable to subconsultants.
- C. Consultant shall pay its subconsultants within ten (10) calendar days from receipt of each payment made to the Consultant by the Agency.
- D. Any substitution of subconsultants must be approved in writing by the Agency's Contract Administrator in advance of assigning work to a substitute subconsultant.

2. Disadvantaged Business Enterprise (DBE) Participation

- A. This Contract is subject to 49 CFR, Part 26 entitled "Participation by Disadvantaged Business Enterprises in Department of Transportation Financial Assistance Programs". Proposers who obtain DBE participation on this contract will assist Caltrans in meeting its federally mandated statewide overall DBE goal.
- B. If the contract has a DBE goal, the Consultant must meet the goal by committing DBE participation or document a good faith effort to meet the goal. If a DBE subconsultant is unable to perform, the Consultant must make a good faith effort to replace him/her with another DBE subconsultant, if the goal is not otherwise met. A DBE is a firm meeting the definition of a DBE as specified in 49 CFR.
- C. DBEs and other small businesses, as defined in 49 CFR, Part 26 are encouraged to participate in the performance of contracts financed in whole or in part with federal funds. The Consultant or subconsultant shall not discriminate on the basis of race, color, national origin, or sex in the performance of this Contract. The Consultant shall carry out applicable requirements of 49 CFR, Part 26 in the award and administration of US DOT- assisted agreements. Failure by the Consultant to carry out these requirements is a material breach of this Contract, which may result in the termination of this Contract or such other remedy as the local agency deems appropriate.
- D. Any subcontract entered into as a result of this Contract shall contain all of the provisions of this section.
- E. A DBE may be terminated only with prior written approval from the local agency and only for the reasons specified in 49 CFR 26.53(f). Prior to requesting local agency consent for the termination, the prime consultant must meet the procedural requirements specified in 49 CFR 26.53(f).

3. Performance of DBE Consultant and other DBE Subconsultants/Suppliers

- A. A DBE performs a commercially useful function when it is responsible for execution of the work of the Contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the DBE must also be responsible with respect to materials and supplies used on the Contract, for negotiating price, determining quality and quantity, ordering the material, and installing (where applicable) and paying for the material itself. To determine whether a DBE is performing a commercially useful function, evaluate the amount of work subcontracted, industry practices; whether the amount the firm is to be paid under the Contract is commensurate with the work it is actually performing; and other relevant factors.
- B. A DBE does not perform a commercially useful function if its role is limited to that of an extra participant in a transaction, Contract, or project through which funds are passed in order to obtain the appearance of DBE participation. In determining whether a DBE is such an extra participant, examine similar transactions, particularly those in which DBEs do not participate.
- **C.** If a DBE does not perform or exercise responsibility for at least 30 percent of the total cost of its Contract with its own work force, or the DBE subcontracts a greater portion of the work of the Contract than would be expected on the basis of normal industry practice for the type of work involved, it will be presumed that it is not performing a commercially useful function.

4. Prompt Payment of Funds Withheld to Subconsultants

- A. Any subcontract entered into as a result of this Contract shall contain all of the provisions of this section. (Local agency to include either B, C, or D below; delete the other two.)
- B. No retainage will be withheld by the Agency from progress payments due the prime Consultant. Retainage by the prime Consultant or subconsultants is prohibited, and no retainage will be held by the prime Consultant from progress due subconsultants. Any violation of this provision shall subject the violating prime Consultant or subconsultants to the penalties, sanctions, and other remedies specified in Section 7108.5 of the California Business and Professions Code. This requirement shall not be construed to limit or impair any contractual, administrative, or judicial remedies, otherwise available to the prime Consultant or subconsultant in the event of a dispute involving late payment or nonpayment by the prime Consultant or deficient subconsultant performance, or noncompliance by a subconsultant. This provision applies to both DBE and non-DBE prime Consultants and subconsultants.
- C. No retainage will be held by the Agency from progress payments due the prime Consultant. Any retainage held by the prime Consultant or subconsultants from progress payments due subconsultants shall be promptly paid in full to subconsultants within 30 days after the subconsultant's work is satisfactorily completed. Federal law (49 CFR26.29) requires that any delay or postponement of payment over the 30 days may take place only for good cause and with the Agency's prior written approval. Any violation of this provision shall subject the violating prime Consultant or subconsultant to the penalties, sanctions and other remedies specified in Section 7108.5 of the Business and Professions Code. These requirements shall not be construed to limit or impair any contractual, administrative, or judicial remedies, otherwise available to the prime Consultant or subconsultant in the event of a dispute involving late payment or nonpayment by the prime consultant, deficient subconsultant performance, or noncompliance by a subconsultant. This provision applies to both DBE and non-DBE prime consultant and subconsultants.

D. The Agency shall hold retainage from the prime consultant and shall make prompt and regular incremental acceptances of portions, as determined by the Agency, of the contract work, and pay retainage to the prime consultant based on these acceptances. The prime consultant, or subconsultant, shall return all monies withheld in retention from a subconsultant within 30 days after receiving payment for work satisfactorily completed and accepted including incremental acceptances of portions of the contract work by the agency. Federal law (49 CFR26.29) requires that any delay or postponement of payment over 30 days may take place only for good cause and with the agency's prior written approval. Any violation of this provision shall subject the violating prime consultant or subconsultant to the penalties, sanctions and other remedies specified in Section 7108.5 of the Business and Professions Code. These requirements shall not be construed to limit or impair any contractual, administrative, or judicial remedies, otherwise available to the prime consultant or subconsultant in the event of a dispute involving late payment or nonpayment by the prime Consultant, deficient subconsultant performance, or noncompliance by a subconsultant. This provision applies to both DBE and non-DBE prime consultant and subconsultants.

5. DBE Records

- A. The Consultant shall maintain records of materials purchased or supplied from all subcontracts entered into with certified DBEs. The records shall show the name and business address of each DBE or vendor and the total dollar amount actually paid each DBE or vendor, regardless of tier. The records shall show the date of payment and the total dollar figure paid to all firms. DBE prime consultants shall also show the date of work performed by their own forces along with the corresponding dollar value of the work.
- B. Upon completion of the Contract, a summary of these records shall be prepared and submitted on the form entitled, "Final Report-Utilization of Disadvantaged Business Enterprise (DBE), First-Tier Subconsultants," CEM-2402F (Exhibit 17-F, Chapter 17, of the LAPM), certified correct by the Consultant or the Consultant's authorized representative and shall be furnished to the Contract Administrator with the final invoice. Failure to provide the summary of DBE payments with the final invoice will result in 25 percent of the dollar value of the invoice being withheld from payment until the form is submitted. The amount will be returned to the Consultant when a satisfactory "Final Report-Utilization of Disadvantaged Business Enterprises (DBE), First-Tier Subconsultants" is submitted to the Contract Administrator.

6. DBE Certification and Decertification Status

If a DBE subconsultant is decertified during the life of the Contract, the decertified subconsultant shall notify the Consultant in writing with the date of decertification. If a subconsultant becomes a certified DBE during the life of the Contract, the subconsultant shall notify the Consultant in writing with the date of certification. Any changes should be reported to the Agency's Contract Administrator within 30 days.

EXHIBIT 10-K CONSULTANT CERTIFICATION OF CONTRACT COSTS AND FINANCIAL MANAGEMENT SYSTEM

Certification of Final Indirect Costs:
Consultant Firm Name:
Indirect Cost Rate:
Fiscal Period Covered for Indirect Cost Rate Developed (mm/dd/yyyy to mm/dd/yyyy):
Date of Proposal Preparation (mm/dd/yyyy):
Fiscal Period Covered (mm/dd/yyyy to mm/dd/yyyy):
I, the undersigned, certify that I have reviewed the proposal to establish final indirect cost rates for the fiscal period as specified above and to the best of my knowledge and belief:
1. All costs included in this proposal to establish final indirect cost rates are allowable in accordance with the cost principles of the Federal Acquisition Regulations (FAR) of Title 48, Code of Federal Regulations (CFR), Part 31.
2. This proposal does not include any costs which are expressly unallowable under the cost principles of the FAR of 48 CFR, Part 31.
All known material transactions or events that have occurred affecting the firm's ownership, organization, and indirect cost rates have been disclosed as of the date of proposal preparation noted above.
Certification of Financial Management System:
I, the undersigned, certify to the best of my knowledge and belief that our financial management system meets the standards for financial reporting, accounting records, internal and budget control as set forth in the FAR of Title 49, CFR, Part 18.20 to the extent applicable to Consultant.
Certification of Dollar Amount for all A&E contracts:
I, the undersigned, certify that the approximate dollar amount of all A&E contracts awarded by Caltrans or a California local agency to this firm within the last three (3) calendar years for all State DOT and Local Agencies

Certification of Direct Costs:

I, the undersigned, certify to the best of my knowledge and belief that all direct costs identified on the cost proposal(s) in this contract are reasonable, allowable and allocable to the contract in accordance with the cost principles of the FAR of Title 48, CFR, Part 31. Allowable direct costs to a Government contract shall be:

is \$_____ and the number of States in which the firm does business is _____.

- 1. Compliant with Generally Accepted Accounting Principles (GAAP) and standards promulgated by the Cost Accounting Standards Board (when applicable).
- 2. Compliant with the terms of the contract and is incurred specifically for the contract.
- 3. Not prohibited by 23 CFR, Chapter 1, Part 172 –Administration of Engineering and Design Related Service Contracts to the extent requirements are applicable to Consultant.

All costs must be applied consistently and fairly to all contracts. All documentation of compliance must be retained in the project files.

Subconsultants (if applicable)	
Proposed Contract Amount (or amount not to exceed	ed if on-call contract): \$
Prime Consultants (if applicable) Proposed Total Contract Amount (or amount not to	o exceed if on-call contract): \$
Prime, list all subconsultants and proposed subcontrac	et dollar amounts (attach additional page if necessary):
	\$
	\$
	\$
* Consultant Certification Signature:	
Consultant Certifying (Print Name and Title):	
Name:	
Title:	
Consultant Contact Information:	
Email:	
Phone number:	
Date of Certification (mm/dd/yyyy):	

*An individual executive or financial officer of the consultant's organization at a level no lower than a Vice President or Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the indirect cost rate proposal submitted in conjunction with the contract.

Note: Per 23 U.S.C. 112(b)(2)(B), Subconsultants must comply with the FAR Cost Principles contained in 48 CFR, Part 31. 23 CFR Part 172.3 Definitions state: Consultant means the individual or firm providing engineering and design related services as a party to the contract. Therefore, subconsultants as parties of a contract must complete a certification and send originals to A&I and keep copies in Local Agency Project Files.

Distribution: 1) Original to Caltrans Audits and Investigations

2) Retained in Local Agency Project Files

EXHIBIT 10-O1 CONSULTANT PROPOSAL DBE COMMITMENT

(Inclusive of all DBEs listed at bid proposal. Refer to instructions on the reverse side of this form)

	Consultant	to Complete this Se	ection	
1. Local Agency Name:				
1. Local Agency Name:				
2. Project Location:				
3. Project Description:				
4. Consultant Name:				
5. Contract DBE Goal %:				
	DBE	Commitment Informati	ion	
6. Description of Services to be Provided	Co	7. DBE Firm ontact Information	8. DBE Cert. Number	9. DBE %
Local Agency to C	omplete this S	action	10. Total	
Local Agency to C	ompiete tilis s	ection	% Claimed	%
16. Local Agency Contract Number:			_	
17. Federal-aid Project Number:			-	
10 D				
18. Proposed Contract Execution Date:				
Local Agency certifies that all DBE conformation on this form is complete a		valid and the	11. Preparer's Signature	
information on this form is complete a	nd accurate.			
10 I 14 B (C) N (C)			12. Preparer's Name (Prin	nt)
19. Local Agency Representative Name (Print)				
			13. Preparer's Title	
20. Local Agency Representative Signature		21. Date		
			14. Date 15.	(Area Code) Tel. No.
22. Local Agency Representative Title		23. (Area Code) Tel. No.		

Distribution:

- (1) Original Consultant submits to local agency with proposal
 (2) Copy Local Agency files

INSTRUCTIONS - CONSULTANT PROPOSAL DBE COMMITMENT

Consultant Section

The Consultant shall:

- 1. Local Agency Name Enter the name of the local or regional agency that is funding the contract.
- 2. **Project Location** Enter the project location as it appears on the project advertisement.
- 3. **Project Description** Enter the project description as it appears on the project advertisement (Bridge Rehab, Seismic Rehab, Overlay, Widening, etc.).
- **4. Consultant Name** Enter the consultant's firm name.
- 5. Contract DBE Goal % Enter the contract DBE goal percentage, as it was reported on the Exhibit 10-I *Notice to Proposers DBE Information* form. See LAPM Chapter 10.
- **6. Description of Services to be Provided** Enter item of work description of services to be provided. Indicate all work to be performed by DBEs including work performed by the prime consultant's own forces, if the prime is a DBE. If 100% of the item is not to be performed or furnished by the DBE, describe the exact portion to be performed or furnished by the DBE. See LAPM Chapter 9 to determine how to count the participation of DBE firms.
- 7. **DBE** Firm Contact Information Enter the name and telephone number of all DBE subcontracted consultants. Also, enter the prime consultant's name and telephone number, if the prime is a DBE.
- 8. DBE Cert. Number Enter the DBEs Certification Identification Number. All DBEs must be certified on the date bids are opened. (DBE subcontracted consultants should notify the prime consultant in writing with the date of the decertification if their status should change during the course of the contract.)
- 9. **DBE** % Percent participation of work to be performed or service provided by a DBE. Include the prime consultant if the prime is a DBE. See LAPM Chapter 9 for how to count full/partial participation.
- 10. Total % Claimed Enter the total DBE participation claimed. If the Total % Claimed is less than item "6. Contract DBE Goal", an adequately documented Good Faith Effort (GFE) is required (see Exhibit 15-H DBE Information Good Faith Efforts of the LAPM).
- 11. Preparer's Signature The person completing this section of the form for the consultant's firm must sign their name.
- 12. Preparer's Name (Print) Clearly enter the name of the person signing this section of the form for the consultant.
- 13. Preparer's Title Enter the position/title of the person signing this section of the form for the consultant.
- **14. Date** Enter the date this section of the form is signed by the preparer.
- **15.** (Area Code) Tel. No. Enter the area code and telephone number of the person signing this section of the form for the consultant.

Local Agency Section:

The Local Agency representative shall:

- **16.** Local Agency Contract Number Enter the Local Agency Contract Number.
- 17. Federal-Aid Project Number Enter the Federal-Aid Project Number.
- 18. Contract Execution Date Enter date the contract was executed and Notice to Proceed issued. See LAPM Chapter 10, page 23.
- 19. Local Agency Representative Name (Print) Clearly enter the name of the person completing this section.
- **20.** Local Agency Representative Signature The person completing this section of the form for the Local Agency must sign their name to certify that the information in this and the Consultant Section of this form is complete and accurate.
- **21. Date** Enter the date the Local Agency Representative signs the form.
- 22. Local Agency Representative Title Enter the position/title of the person signing this section of the form.
- 23. (Area Code) Tel. No. Enter the area code and telephone number of the Local Agency representative signing this section of the form.

EXHIBIT 10-O2 CONSULTANT CONTRACT DBE INFORMATION

(Inclusive of all DBEs listed at contract award. Refer to instructions on the reverse side of this form)

Consultant to Complete this Section				
1. Local Agency Name:				
2. Project Location:				
3. Project Description:				
4. Total Contract Award Amou	nt: \$			
5. Consultant Name:				
6. Contract DBE Goal %:				
7. Total Dollar Amount for all	Subconsultants: \$			
8. Total Number of <u>all</u> Subcons	sultants:	_		
		rd DBE/DBE Information	T	14 222 2 11
9. Description of Services to be I		10. DBE/DBE Firm Contact Information	11. DBE Cert. Number	12. DBE Dollar Amount
Local Ag	ency to Complete this	Section	13. Total	
20. Local Agency Contract Number	:		Dollars Claimed	\$
21. Federal-aid Project Number: _			14. Total	
22. Contract Execution Date:		% Claimed	%	
Local Agency certifies that a information on this form is c		re valid and the		
23. Local Agency Representative N	Name (Print)			
24. Local Agency Representative S	ignature	25. Date		
26. Local Agency Representative T	ïtle	27. (Area Code) Tel. No.	15. Preparer's Signature	
Caltra	ns to Complete this Se	ection	16. Preparer's Name (Prin	nt)
Caltrans District Local Assis has been reviewed for compl) certifies that this form	17. Preparer's Title	
			18. Date 19.	(Area Code) Tel. No.
28. DLAE Name (Print)	29. DLAE Signature	30. Date		

Distribution: (1) Copy – Email a copy to the Caltrans District Local Assistance Engineer (DLAE) within 30 days of contract award. Failure to send a copy to the DLAE within 30 days of contract award may result in delay of payment.

(2) Copy – Include in award package sent to Caltrans DLAE

(3) Original – Local agency files

INSTRUCTIONS - CONSULTANT CONTRACT AWARD DBE INFORMATION

Consultant Section

The Consultant shall:

- 1. Local Agency Name Enter the name of the local or regional agency that is funding the contract.
- 2. Project Location Enter the project location as it appears on the project advertisement.
- 3. **Project Description** Enter the project description as it appears on the project advertisement (Bridge Rehab, Seismic Rehab, Overlay, Widening, etc).
- 4. Total Contract Award Amount Enter the total contract award dollar amount for the prime consultant.
- 5. Consultant Name Enter the consultant's firm name.
- **6. Contract DBE Goal %** Enter the contract DBE goal percentage, as it was reported on the Exhibit 10-I *Notice to Proposers DBE Information* form. See LAPM Chapter 10.
- 7. Total Dollar Amount for <u>all</u> Subconsultants Enter the total dollar amount for all subcontracted consultants. SUM = (DBE's + all Non-DBE's). Do <u>not</u> include the prime consultant information in this count.
- 8. Total number of <u>all</u> subconsultants Enter the total number of all subcontracted consultants. SUM = (DBE's + all Non-DBE's). Do <u>not</u> include the prime consultant information in this count.
- 9. Description of Services to be Provided Enter item of work description of services to be provided. Indicate all work to be performed by DBEs including work performed by the prime consultant's own forces, if the prime is a DBE. If 100% of the item is not to be performed or furnished by the DBE, describe the exact portion to be performed or furnished by the DBE. See LAPM Chapter 9 to determine how to count the participation of DBE firms.
- **10. DBE Firm Contact Information** Enter the name and telephone number of all DBE subcontracted consultants. Also, enter the prime consultant's name and telephone number, if the prime is a DBE.
- 11. DBE Cert. Number Enter the DBE's Certification Identification Number. All DBEs must be certified on the date bids are opened. (DBE subcontracted consultants should notify the prime consultant in writing with the date of the decertification if their status should change during the course of the contract.)
- **12. DBE Dollar Amount** Enter the subcontracted dollar amount of the work to be performed or service to be provided. Include the prime consultant if the prime is a DBE, and include DBEs that are not identified as subconsultants on the Exhibit 10-O1 *Consultant Proposal DBE Commitment* form. See LAPM Chapter 9 for how to count full/partial participation.
- **13. Total Dollars Claimed** Enter the total dollar amounts for column 13.
- **14. Total** % **Claimed** Enter the total DBE participation claimed for column 13. SUM = (item "14. Total Participation Dollars Claimed" divided by item "4. Total Contract Award Amount"). If the Total % Claimed is less than item "6. Contract DBE Goal", an adequately documented Good Faith Effort (GFE) is required (see Exhibit 15-H *DBE Information Good Faith Efforts* of the LAPM).
- 15. Preparer's Signature The person completing this section of the form for the consultant's firm must sign their name.
- 16. Preparer's Name (Print) Clearly enter the name of the person signing this section of the form for the consultant.
- 17. Preparer's Title Enter the position/title of the person signing this section of the form for the consultant.
- **18. Date** Enter the date this section of the form is signed by the preparer.
- 19. (Area Code) Tel. No. Enter the area code and telephone number of the person signing this section of the form for the consultant.

Local Agency Section:

The Local Agency representative shall:

- 20. Local Agency Contract Number Enter the Local Agency Contract Number.
- 21. Federal-Aid Project Number Enter the Federal-Aid Project Number.
- 22. Contract Execution Date Enter the date the contract was executed and Notice to Proceed issued. See LAPM Chapter 10, page 23.
- 23. Local Agency Representative Name (Print) Clearly enter the name of the person completing this section.
- **24.** Local Agency Representative Signature The person completing this section of the form for the Local Agency must sign their name to certify that the information in this and the Consultant Section of this form is complete and accurate.
- 25. Date Enter the date the Local Agency Representative signs the form.
- 26. Local Agency Representative Title Enter the position/title of the person signing this section of the form.
- 27. (Area Code) Tel. No. Enter the area code and telephone number of the Local Agency representative signing this section of the form.

Caltrans Section:

Caltrans District Local Assistance Engineer (DLAE) shall:

- **28. DLAE Name (Print)** Clearly enter the name of the DLAE.
- 29. DLAE Signature DLAE must sign this section of the form to certify that it has been reviewed for completeness.
- **30.** Date Enter the date that the DLAE signs this section the form.

EXHIBIT 10-P NONLOBBYING CERTIFICATION FOR FEDERAL-AID CONTRACTS

The prospective participant certifies by signing and submitting this proposal/bid to the best of his or her knowledge and belief that:

- (1) No federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The prospective participant also agrees by submitting his/her proposal/bid that he/she shall require that the language of this certification be included in all lower-tier subcontracts which exceed \$100,000 and that all such sub-recipients shall certify and disclose accordingly.

EXHIBIT 10-V NON-DISCRIMINATION CLAUSE

(To be included in Consultant Contract)

NON-DISCRIMINATION CLAUSE

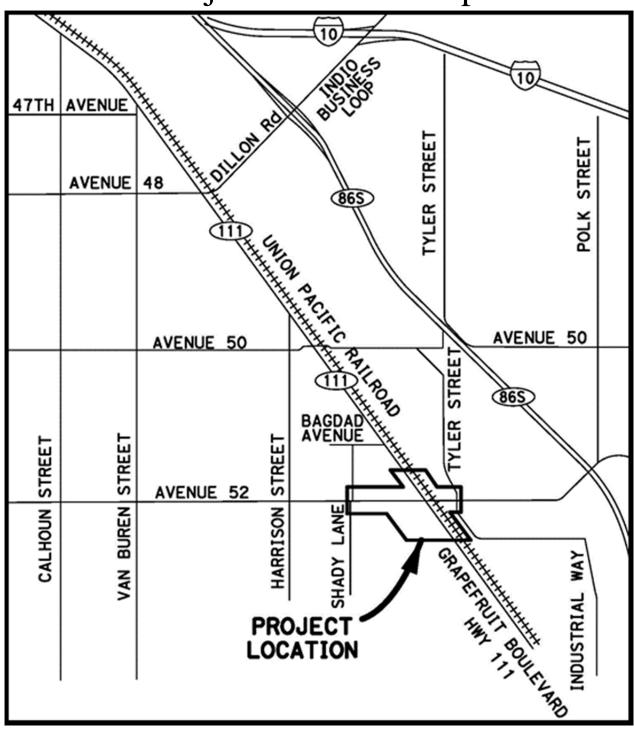
During the performance of this Contract, Consultant and its subconsultant shall not unlawfully discriminate, harass, or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, physical disability (including HIV and AIDS), mental disability, medical condition (e.g., cancer), age (over 40), marital status, and denial of family care leave. Consultant and subconsultants shall insure that the evaluation and treatment of their employees and applicants for employment are free from such discrimination and harassment. Consultant and subconsultants shall comply with the provisions of the Fair Employment and Housing Act (Gov. Code §12990 (a-f) et seq.) and the applicable regulations promulgated thereunder (California Code of Regulations, Title 2, Section 7285 et seq.). The applicable regulations of the Fair Employment and Housing Commission implementing Government Code Section 12990 (a-f), set forth in Chapter 5 of Division 4 of Title 2 of the California Code of Regulations, are incorporated into this Contract by reference and made a part hereof as if set forth in full. Consultant and its subconsultants shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other Agreement.

Consultant shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform work under the Contract.

ATTACHMENTS

Attachment A

Project Location Map



Attachment B Partial Project Plans

CITY OF COACHELLA, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

AVENUE 52 / GRAPEFRUIT BLVD GRADE SEPARATION

SHEET INDEX

TITLE SHEET
GENERAL NOTES
TYPICAL CROSS SECTIONS SHEET 1 SHEET 2 - 4 SHEET 5 - 7 SHEET 8 - 15 PLAN AND PROFILE CONSTRUCTION DETAILS SHEET 16 - 26 DRAINAGE PLAN, PROFILE, AND DETAILS TEMPORARY WATER POLLUTION CONTROL SHEET 27 - 31SHEET 32 SHEET 33 - 43 SHEET 44 - 47 UTILITY PLANS SEWER PLANS WATERLINE PLANS
CONSTRUCTION AREA SIGNS
SIGNING AND STRIPING PLANS SHEET 48 - 54 SHEET 55 SHEET 56 - 59 STAGE CONSTRUCTION PLANS SHEET 60 - 69 SHEET 70 - 71 SHEET 72 - 77 SHEET 78 - 82 TRAFFIC HANDLING PLANS DETOUR PLANS TRAFFIC SIGNAL PLANS SHEET 83 SHEET 89 STREET LIGHTING PLANS 83 - 88 UPRR VERTICAL CLEARANCE DIAGRAM BRIDGE PLANS SHEET 90 - 128 RETAINING WALL PLANS SHEET 129 - 158 COACHELLA VALLEY WATER DISTRICT (CVWD) PLANS SHEET 159 - 183 BETWEEN SHADY LANE AND TYLER STREET FEDERAL PROJECT NO. CML5294(007)

BASIS OF BEARING

THE BEARINGS HEREON ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE 6, NAD 83 (EPOCH 2007) BETWEEN CONTINUOUS GLOBAL POSITIONING STATIONS (CGPS) AND OR CONTINUOUS OPERATING REF. STATIONS (CORS) COTD AND PSAP, IDENTIFIED LOCALLY ALONG THE CENTERLINE OF AVENUE 52 BETWEEN NORTH SHADY LANE AND 449' WEST OF TYLER STREET, TAKEN AS N 88'10'10" E.

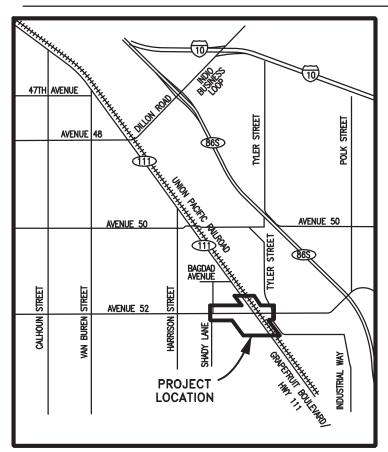
BENCHMARKS

BENCH MARK: C 1326

DESCRIPTION: STANDARD BRASS DISK SET ENCASED IN A 4 INCH PVC PIPE WITH A SCREW CAP AND IS RECESSED .3 FT BELOW THE GROUND SURFACE. 1.90 MI NORTHWESTERLY ALONG STATE HIGHWAY 111 FROM THE POST OFFICE IN THERMAL, 41.3 FT SOUTHWEST OF THE HIGHWAY CENTERLINE, 32.8 FT SOUTHEAST OF THE CENTER OF A SAND ROAD, 2.0 FT NORTHWEST OF A UTILITY LIGHT POLE, 1.0 FT SOUTHEAST OF A WITNESS POST, AND LEVEL WITH HIGHWAY.

ELEVATION: 406.44' (NAVD88 + 500')

= FLARED END SECTION = FINISHED GRADE = FLOW LINE = FINISHED SURFACE = HINGE POINT = HOT MIX ASPHALT = GRIND AC PAVEMENT FES FC FS FL FS HIP HIMA HIWN LT HIM MISC OPCC PD PG POT PROP PROP PROP PUE PVI RCFC&WCD = PROPOSED HMA PAVEMENT = EXISTING RIGHT-OF-WAY = PROPOSED RIGHT-OF-WAY = AI = AGGREGATE BASE = ASPHALT CONCRETE = BEGIN CURB RETURN = BEGIN CURVE = BĒĞIN CURVE = BEĞIN = BOULEVARD = BACK OF SIDEWALK = BEĞIN VERTICAL CURVE = CENTER TO CENTER = CITY OF COACHELLA = CENTER LINE = CATCH BASIN = CURB AND GUTTER = CONDUIT = COMMINICATION = Parkinat Dizan = Pedestrian = Proposed Grade = Point of Horizontal Curve = Point of Tangent = Point of Reverse Curve = POINT OF REVERSE CURVE = PROPOSED = PUBLIC UTILITY EASEMENT = POINT OF VERTICAL INTERSECTION = RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT = REINFORCED CONCRETE PIPE = ROCK SLOPE PROTECTION = RIGHT = RETAINING WALL = RIGHT-OF-WAY = STORM DRAIN = SHEFT = CONDUIT = COMMUNICATION = CONCRETE = CALTRANS STANDARD PLAN DIAMETER DRIVE DRIVEWAY = Driveway = Elevation = Edge of Pavement = End of Curve = End of Curve = End Vertical Curve = Existing SHEET STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION = STANDARD PLANS FOR PUBLIC WORKS = STREET = STATION = STANDARD = SIDEWALK = TOP OF CURB = TEMPORARY CONSTRUCTION EASEMENT = TYPICAL - VADICS



VICINITY MAP NO SCALE

Know what's below.

Call before you dig.

NOT TO SCALE

R.C.E. C-69948

PARSONS
3200 EAST GUASTI ROAD, SUITE 200
ONTARIO, CALIFORNIA 91761 08-16-13 GABRIEL N. RODRIGUEZ DATE

EXP. DATE: 09-30-14

DRAWN BY: JENNIFER CHAN MARK REVISIONS DRAWN BY: GABRIEL RODRIGUEZ	09-30-14
APPROVED BY: JONATHAN D. HOY DATE R.C.E. C-63526 EXP. DATE: 09-30-14 DRAWN BY: JENNIFER CHAN	DATE 09-30-14
APPROVED BY: JONATHAN D. HOY DATE R.C.E. C-63526 EXP. DATE: 09-30-14	DATE 09-30-14
APPROVED BY: JONATHAN D. HOY DATE R.C.E. C-63526 EXP. DATE: 09-30-14	DATE 09-30-14
APPROVED BY: JONATHAN D. HOY DATE	DATE

CITY OF COACHELLA AVENUE 52 / GRAPEFRUIT BLVD GRADE SEPARATION TITLE SHEET

CITY FILE NO 2009 - 18DRAWING NO T-1

LEGEND

GENERAL CONSTRUCTION NOTES

- ALL DESIGN. MATERIALS, AND CONSTRUCTION WORK SHALL CONFORM TO THE CITY OF COACHELLA STANDARD SPECIFICATIONS AND PROCEDURES AND THE CITY OF COACHELLA STANDARD DRAWINGS AND TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), MOST CURRENT EDITIONS AND THESE APPROVED PLANS.
- THE CONTRACTOR SHALL, AT NO EXPENSE TO THE CITY, PROVIDE ALL NECESSARY SAMPLES AND TESTS REQUIRED BY THE CITY TO ASSURE THAT THE QUALITY OF THE MATERIALS AND WORKMANSHIP ARE IN ACCORDANCE WITH THESE PLANS AND SAID SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AND SHALL MAINTAIN ALL FACILITIES COMPLETE AND UNCOMPLETED UNTIL ACCEPTED BY THE CITY.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT-OF-WAY IN ACCORDANCE WITH THE PROVISIONS OF LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AT NO COST TO THE CITY.
- THE CONTRACTOR SHALL OBTAIN AND REVIEW ALL NECESSARY STANDARDS, PLANS, AND SPECIFICATIONS IN DETAIL PRIOR TO START OF CONSTRUCTION. ALL DOCUMENTS, INCLUDING APPROVED PLANS AND REFERENCED STANDARDS SHALL BE ON-SITE AT ALL TIMES. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY INSPECTOR PRIOR TO WORK IN THAT AREA.
- ALL ELEVATIONS SHOWN TO BE EXISTING FROM RECENT SURVEY OF THE ENGINEER AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- PRIOR TO BEGINNING ANY WORK, CONTRACTOR SHALL SECURE A CITY OF COACHELLA PERMIT FOR CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE CITY OF COACHELLA (760) 398-5744, 72 HOURS PRIOR TO STARTING ANY WORK. A PRE-CONSTRUCTION MEETING SHALL BE SET UP WITH THE CITY OF COACHELLA ENGINEERING DEPARTMENT AND ALL AFFECTED UTILITY COMPANIES SHALL BE PRESENT.
- CONTRACTOR SHALL CALL U.S.A., UNDERGROUND SERVICE ALERT, AT 811 AND SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES 24 HOURS IN ADVANCE OF THE COMMENCMENT OF CONSTRUCTION.
- OSHA SAFETY ORDERS AND OSHA CONFINED SPACE ENTRY REQUIREMENTS SHALL BE FOLLOWED AT ALL TIMES WITHOUT EXCEPTION
- THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR AFTER THE DATE OF FINAL ACCEPTANCE BY CITY OF COACHELLA IN ACCORDANCE WITH THE CITY OF COACHELLA STANDARD SPECIFICATIONS.
- QUANTITIES SHOWN HEREON ARE FOR ESTIMATE PURPOSES ONLY. NEITHER THE DESIGN ENGINEER NOR THE CITY OF COACHELLA GUARANTEE THE ACCURACY OR COMPLETENESS OF THE CONSTRUCTION QUANTITIES.
- CONTRACTOR SHALL CONFORM TO LABOR CODE SECTION 6705 BY SUBMITTING A DETAIL PLAN TO THE CITY ENGINEER SHOWING THE DESIGN OF SHORING, BRACING, SLOPING, OR OTHER PROVISIONS TO BE MADE FOR PROTECTION OF WORKERS FROM THE HAZARD OF CAVING GROUND DURING TRENCH EXCAVATION AND PIPE INSTALLATION THEREIN. THIS PLAN MUST BE PREPARED FOR ALL TRENCHES FIVE FEET OR MORE IN DEPTH. IF THE PLAN VARIES FROM THE SHORING SYSTEM STANDARDS ESTABLISHED BY THE CONSTRUCTION SAFETY ORDERS, TITLE 8, CALIFORNIA ADMINISTRATIVE CODE, THE PLAN SHALL BE PREPARED BY A REGISTERED ENGINEER. A COPY OF THE OSHA EXCAVATION PERMIT MUST BE SUBMITTED TO THE CITY OF COACHELLA INSPECTOR PRIOR TO EXCAVATION.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS WAS OBTAINED BY AVAILABLE RECORDS SEARCH BY THE DESIGN ENGINEER. TO THE BEST OF THE DEISGN ENGINEER?S KNOWLEDGE. THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. ATTENTION IS CALLED TO THE POSSIBLE EXISTENCE OF OTHER UTILITIES OR STRUCTURES NOT SHOWN, OR IN A DIFFERENT LOCATION FROM THAT SHOWN ON THE PLANS. THE CONTRACTOR SHALL TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN ON THE PLANS AND OTHER EXISTING FACILITIES OR STRUCTURES NOT SHOWN.
- APPROVAL OF THIS PLAN BY THE CITY OF COACHELLA DOES NOT CONSTITUTE A REPRESENTATION OF THE ACCURACY OF THE LOCATION OF, OR THE EXISTENCE OR NON-EXISTENCE OF, ANY UNDERGROUND UTILITY, PIPE, OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT.
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS INCLUDING, BUT NOT LIMITED TO, TRENCH SAFETY AND CONFINED SPACE ENTRY.
- SOILS REPORTS SHALL BE SUBMITTED TO THE CITY OF COACHELLA BY A QUALIFIED SOILS ENGINEER WHICH CERTIFIES THAT TRENCH BACKFILL WAS COMPACTED AS DIRECTED BY THE SOILS ENGINEER IN ACCORDANCE WITH ON SITE EARTHWORK SPECIFICATIONS AND THE CITY OF COACHELLA STANDARD SPECIFICATIONS.
- ALL REVISIONS TO DRAWINGS SHALL BE APPROVED BY THE CITY ENGINEER IN WRITING PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING COMPLETE RECORD OF CHANGES AND SHALL MAKE SUCH RECORD AVAILABLE TO THE DESIGN ENGINEER. THE PRIVATE ENGINEER SHALL PROVIDE AS-BUILT DRAWINGS TO THE CITY OF COACHELLA FOR REVIEW AND APPROVAL PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
- THE CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTATION. IF ANY SURVEY MONUMENTS ARE DISTURBED OR DESTROYED, THE CONTRACTOR SHALL RETAIN A LICENSED SURVEYOR TO RE-ESTABLISH AND RECORD THE MONUMENT CHANGE PER STATE LAW.
- CONTRACTOR SHALL NOT INTERRUPT OR DISTURB ANY UTILITY FACILITY WITHOUT AUTHORITY FROM THE UTILITY COMPANIES. WHERE PROTECTION IS REQUIRED TO ENSURE INTEGRITY OF UTILITY FACILITIES (INCLUDING CITY-OWNED UTILITIES). CONTRACTOR SHALL FURNISH AND PLACE ALL NECESSARY PROTECTION.

GENERAL NOTES FOR STREET IMPROVEMENT PLANS

- CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING OF THE PROPOSED WORK AREA AND RELOCATION COSTS OF ALL EXISTING UTILITIES. ALL UNDERGROUND FACILITIES WITH LATERALS SHALL BE IN PLACE PRIOR TO PAVING THE STREET SECTION, INCLUDING, BUT NOT LIMITED TO SEWER, WATER, ELECTRIC, GAS, DRAINAGE, TELEPHONE, CABLE TV. ETC.
- 2. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ADJACENT PROPERTY OWNERS FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS FROM ANY AND ALL WORK IN CONJUNCTION WITH CONSTRUCTION OF THESE IMPROVEMENTS.
- 3. THE CONTRACTOR SHAL BE RESPONSIBLE FOR ALL DAMAGES TO ON-SITE, OFF-SITE, AND ADJACENT UTILITIES, FACILITIES, AND PROPERTY AND SHALL CARRY SUFFICIENT INSURANCE TO PROTECT THE CITY AND THE ADJACENT
- DEPTH OF BASE MATERIALS AND A.C. PAVING SHALL BE DETERMINED BY THE R-VALUE METHOD, DESIGNATED AS TEST NO. 301-F OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, HIGHWAY DESIGN MANUAL.
- STREET PAVING SHALL BE INSTALLED IN TWO (2) LIFTS: TOP COURSE 1" THICK (MINIMUM) 1/2" A.C. PG-70-10 (D1) AND BOTTOM COURSE 2" THICK (MINIMUM), 3/4" A.C. PG-70-10 (C2).
- WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED AT ALL CURB RETURNS IN CONFORMANCE WITH CITY STANDARD DRAWING S-26 AND ADA REQUIREMENTS.
- 7. THE CONTRACTOR SHALL INSTALL STREET NAME AND STOP SIGNS CONFORMING TO THE CITY STANDARD DRAWING S-27.
- 8. ALL MANHOLE COVERS AND WATER VALVE COVERS SHALL BE ADJUSTED TO GRADE AFTER THE STREETS HAVE BEEN FINAL PAVED PER CITY STDS.
- 9. ALL DRIVEWAY APPROACHES SHALL BE CONSTRUCTED TO THE STRUCTURAL SECTION AS SHOWN ON CITY STANDARD
- 10. TRIM (SAWCUT) EDGE OF EXISTING PAVEMENT WHERE NEW PAVING JOINS EXISTING TO FORM A CLEAN, SMOOTH
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AND SHALL MAINTAIN ALL FACILITIES COMPLETE AND INCOMPLETE UNTIL ACCEPTED BY THE CITY.

GENERAL NOTES FOR CONSTRUCTION WITHIN UPRR RIGHT OF WAY

- THE PROPOSED GRADE SEPARATION PROJECT SHALL NOT INCREASE THE QUANTITY AND/OR CHARACTERISTICS OF THE FLOW IN THE RAILROAD'S DITCHES AND/OR DRAINAGE STRUCTURES.
- 2. THE ELEVATION OF THE EXISTING TOP-OF-RAIL PROFILE SHALL BE VERIFIED BEFORE BEGINNING CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE RAILROAD PRIOR TO
- 3. THE CONTRACTOR MUST SUBMIT A PROPOSED METHOD OF EROSION AND SEDIMENT CONTROL AND HAVE THE METHOD APPROVED BY THE RAILROAD.
- ALL SHORING SYSTEMS THAT IMPACT THE RAILROAD'S OPERATIONS AND/OR SUPPORTS THE RAILROAD'S EMBANKMENT SHALL BE DESIGNED AND CONSTRUCTED PER CURRENT RAILROAD GUIDELINES FOR TEMPORARY SHORING.
- 5. ALL DEMOLITIONS WITHIN THE RAILROAD'S RIGHT-OF-WAY AND/OR DEMOLITION THAT MAY IMPACT THE RAILROAD'S TRACKS OR OPERATIONS SHALL BE IN COMPLIANCE WITH THE RAILROAD'S DEMOLITION GUIDELINES.
- ERECTION OVER THE RAILROAD'S RIGHT-OF-WAY SHALL BE DESIGNED TO CAUSE NO INTERRUPTION TO THE RAILROAD'S OPERATION, ENABLING THE TRACK(S) TO REMAIN OPEN TO TRAFFIC PER THE RAILROAD'S
- RAILROAD REQUIREMENTS DO NOT ALLOW WORK WITHIN 50 FEET OF TRACK CENTERLINE WHEN A TRAIN PASSES THE WORK SITE, AND ALL PERSONNEL MUST CLEAR THE AREA WITHIN 25 FEET OF THE TRACK CENTERLINE AND SECURE ALL FOUIPMENT.
- 8. FALSE-WORK CLEARANCES SHALL COMPLY WITH MINIMUM CONSTRUCTION CLEARANCES.
- 9. ALL PERMANENT CLEARANCES SHALL BE VERIFIED BEFORE PROJECT CLOSING.
- FOR RAILROAD COORDINATION PLEASE REFER TO THE RAILROAD MINIMUM REQUIREMENTS AS PART OF SPECIAL PROVISIONS.

GENERAL NOTES FOR GRADING PLANS

- ALL CONSTRUCTION ON-SITE SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF COACHELLA, TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE, CHAPTER 2 AND THE CALIFORNIA BUILDING CODE.
- 2. ALL GRADING SHALL BE DONE IN CONFORMANCE WITH THE CALIFORNIA BUILDING CODE, APPENDIX CHAPTER 33, REGULATING THE EXCAVATION AND GRADING OF LAND AND AMENDMENTS THERETO, THE REQUIREMENTS OF THE CITY OF COACHELLA AND THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. PREPARED BY EARTH MECHANICS, INC., DATED MARCH 28, 2013.
- 3. CARE SHALL BE TAKEN TO PROTECT ALL CONSTRUCTION STAKES. RESURVEY RESULTING FROM CARELESS OPERATION SHALL BE BACK-CHARGED TO THE CONTRACTOR.
- NO GRADING WORK SHALL BE ACCOMPLISHED WITHOUT A CITY PERMIT.
- THE ENGINEERING DEPARTMENT SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF ANY GRADING OPERATION, TO SCHEDULE A PRE-GRADING MEETING AT THE SITE. THE DEVELOPER/OWNER, GRADING CONTRACTOR, DESIGN CIVIL ENGINEER, SOILS ENGINEER, CITY ENGINEER AND THE CITY INSPECTOR SHALL BE PRESENT AT THIS MEETING.
- THE PERMITTEE OR HIS AGENT SHALL NOTIFY THE ENGINEERING DEPARTMENT WHEN GRADING IS READY FOR EACH OF THE FOLLOWING INSPECTIONS:
 - INITIAL INSPECTION. WHEN THE PERMITTEE IS READY TO BEGIN WORK, BUT NOT LESS THAN TWO (2) DAYS BEFORE ANY GRADING OR CLEARING/GRUBBING IS STARTED.
 - ROUGH GRADING. WHEN ALL ROUGH GRADING HAS BEEN COMPLETED. THIS INSPECTION MAY BE CALLED FOR AT THE COMPLETION OF ROUGH GRADING.
 - FINAL INSPECTION. WHEN ALL WORK, INCLUDING INSTALLATION OF PROTECTIVE DEVICES HAS BEEN COMPLETED AND THE AS-GRADED PLAN, PROFESSIONAL CERTIFICATIONS, AND THE REQUIRED REPORTS HAVE BEEN SUBMITTED.
- 7. FILLS SHALL BE COMPLETED THROUGHOUT TO 90% RELATIVE COMPACTION AS DETERMINED BY ASTM STD NO. D-1557, LATEST EDITION, 5 LAYER METHOD AND CERTIFIED BY THE SOILS ENGINEER.
- AREAS TO BE GRADED SHALL BE PROPERLY PREPARED IN ACCORDANCE WITH THE PRELIMINARY SOILS REPORT AND APPROVED BY THE CITY ENGINEER AND THE SOILS ENGINEER PRIOR TO PLACING OF FILL.
- THE EXISTING IRRIGATION LINES AND CISTERNS SHALL BE REMOVED OR CRUSHED IN PLACE AND BACKFILLED, AND APPROVED BY THE CITY ENGINEER AND SOILS ENGINEER.
- 10. THE SOILS ENGINEER SHALL BE RESPONSIBLE FOR THE QUALITY OF THE WORK PERFORMED BY THE GRADING CONTRACTOR, AND EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING TO INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS, AND CODES WITHIN HIS PURVIEW.
- 11. THE DESIGN CIVIL ENGINEER SHALL EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING AND CONSTRUCTION TO INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS, AND THE CODES WITHIN HIS PURVIEW.
- 12. DUST SHALL BE CONTROLLED BY WATERING AND OTHER BEST MANAGEMENT PRACTICES PER APPROVED FUGITIVE DUST CONTROL PLAN (PM-10).
- 13. APPROVED PROTECTION MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING GRADING OF PROJECT
- 14. PRIOR TO FINAL APPROVAL, THE DESIGN CML ENGINEER SHALL CERTIFY TO THE CITY ENGINEER THAT THE SITE HAS BEEN GRADED TO THE LINE AND GRADE SHOWN ON THE APPROVED GRADING PLANS.
- 15. THE DESIGN CIVIL ENGINEER SHALL CERTIFY THAT THE GRADES SHOWN ON THE PLANS MEET THE FEMA FLOOD INSURANCE RATE MAP REQUIREMENTS AND THE CITY OF COACHELLA FLOOD PROTECTION ORDINANCE.
- 16. THE LOCATION AND PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITIES 18 HOURS IN ADVANCE OF ANY WORK.







GABRIEL N. RODRIGUE

PSONS EAST GUASTI ROAD, SUITE 200 RÍO, CALIFORNIA 91761			
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EXP. DATE: 09-30-14	DATE		

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CITY FILE NO CITY OF COACHELLA 2009-18 AVENUE 52 / GRAPEFRUIT BLVD DRAWING NO GRADE SEPARATION **GENERAL NOTES**

SHEET 2 183 SHEETS 2_0

GENERAL NOTES FOR SEWER IMPROVEMENT PLANS

- TYPE OF PIPE SHALL BE PVC SDR 21 FOR 8"-12" AND SDR 26 FOR 15" AND GREATER. FOR PIPE INSTALLATIONS OF GREATER THAN 12' DEPTH. ALTERNATE PIPE MATERIALS MAY ONLY BE USED WITH PERMISSION OF THE CITY ENGINEER.
- SEWER MAINS MAY BE LAID THROUGH MANHOLES AND USED AS A FORM FOR THE INVERT. MANHOLE BASES SHALL BE MONOLITHICALLY PLACED, FINISHED, AND COMPLETED AT TIME OF PLACEMENT. SETTING OF MANHOLE RINGS SHALL NOT BE ALLOWED FOR 24 HOURS AFTER CONCRETE PLACEMENT.
- ALL SEWER LATERALS SHALL CROSS BELOW WATER MAINS AND SHALL BE PROVIDED WITH A CLEANOUT AND 6" DIAMETER CONCRETE CLEANOUT BOX LOCATED ONE (1) FOOT BEHIND SIDEWALK PER CITY STANDARD D-11.
- WYES AND LATERALS SHALL BE 4" P.V.C. SCHEDULE 40 OR A.B.S. 1210 D.W.V. SCHEDULE 40 AND INSTALLED AT MIN. 2% AND MAX. 4% GRADE PER CITY STD. DWG. D-11.
- MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY STD. DWG. D-2 AND D-3. ALL CONCRETE USED IN SEWER CONSTRUCTION, INCLUDIONG PRECAST MANHOLE SECTIONS AND MANHOLE BASES SHALL BE CLASS 660-C-4000, PORTLAND TYPE V CEMENT (7 SACKS, 4000 PSI). THE CONTRACTOR SHALL FURNISH TO THE INSPECTOR, A CERTIFICATE OF COMPLIANCE SHOWING THE CEMENT TYPE USED.
- SEPARATION BETWEEN WATER LINES AND SEWER LINES SHALL CONFORM TO CITY OF COACHELLA REQUIREMENTS AND STATE DEPARTMENT OF HEALTH SERVICES REQUIREMENTS. MINIMUM VERTICAL SEPARATION IS 1-FOOT.
- FINAL TESTING FOR PIPELINE LEAKAGE SHALL BE MADE IN THE PRESENCE OF THE CITY INSPECTOR, AFTER BACKFILL HAS BEEN INSPECTED AND APPROVED.
- ALL TRENCHES SHALL BE COMPACTED PER CITY OF COACHELLA STANDARD DRAWING NOS. D-4 AND S-30. WATER JETTING SHALL NOT BE ALLOWED. THE SOILS ENGINEER SHALL CERTIFY THAT ALL TRENCHES ARE COMPACTED PER CITY STD. DWG. NO. S-30 & D-4 BEFORE BASE OR CROSS-GUTTER ARE PLACED.
- 9. IT SHALL BE THE SEWER INSTALLATION CONTRACTOR'S RESPONSIBILITY TO SET MANHOLE COVERS TO FINISH GRADE AFTER PAVING IN ACCORDANCE WITH CITY OF COACHELLA STANDARD DRAWING D-10.
- 10. TREES TO BE PLANTED 10 FEET MIN. FROM SEWER LATERALS.
- CITY OF COACHELLA APPROVAL OF THESE PLANS DOES NOT RELIEVE THE PRIVATE ENGINEER OF WORK OR CONTRACTOR FROM RESPONSIBILITY FOR THE CORRECTION OF ERRORS AND OMISSIONS DISCOVERED DURING OR AFTER CONSTRUCTION
- 12. PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A MATERIALS LIST REPRESENTING ALL MATERIALS AND SUPPLIES PROPOSED FOR THE PROJECT. MATERIALS SHALL RECEIVE FAVORABLE REVIEW BY THE CITY OF COACHELLA PRIOR TO COMMENCEMENT OF ANY WORK.
- 13. PRIOR TO BEGINNING SEWER INSTALLATION, THE CITY OF COACHELLA INSPECTOR SHALL BE FURNISHED THREE SETS OF CUT SHEETS.
- ALL SEWER FACILITIES SHALL BE INSTALLED IN DRY EXCAVATIONS AND TRENCHES. CONTRACTOR SHALL DEWATER AND MAINTAIN DEWATERING CONTINUOUSLY UNTIL THE WORK IS COMPLETED INCLUDING PLACEMENT AND COMPACTION OF BACKFILL MATERIALS IN A DRY STATE. ALL PIPE ZONE MATERIAL LOCATED IN WET OR AREAS SUSPECTED TO BE WET IN THE FUTURE SHALL BE ENCASED IN GEOTEXTILE MATERIAL. SUITABLE GEOTEXTILE MATERIAL SHALL BE SUBMITTED TO THE CITY ENGINEER FOR REVIEW AND APPROVAL. CONTRACTOR SHALL OBTAIN DEWATERING PERMITS AS NECESSARY AND RETURN OF GROUNDWATER TO THE SEWER SHALL NOT BE ALLOWED.
- CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT 811, AS REQUIRED BY STATE LAW. ALL LITHITY CROSSINGS SHALL BE POTHOLED PRIOR TO TRENCHING
- SEWER ELEVATIONS SHOWN ARE INVERT ELEVATION (I.E.), INSIDE BOTTOM OF PIPE. SEWER LENGTHS SHOWN ARE FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.
- 17. LENGTH OF OPEN TRENCH SHALL BE LIMITED TO 500 FEET, INCLUDING COLLECTORS AND LATERALS, UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER. TRENCH SHALL BE BACKFILLED OR PLATED AT THE CONCLUSION OF EACH DAY OF WORK.
- CONNECTIONS TO EXISTING SEWER PIPE OR MANHOLES SHALL ONLY BE DONE IN THE DIRECT PRESENCE OF THE CITY OF COACHELLA INSPECTOR. NEW SEWER SHALL NOT BE CONNECTED OR ALLOWED TO FLOW TO EXISTING SEWER UNTIL APPROVED BY CITY INSPECTOR OR CITY ENGINEER.

GENERAL NOTES FOR SEWER IMPROVEMENT PLANS (CONTINUED)

- 19. ALL SERVICE LATERALS SHALL BE LOCATED AT RIGHT ANGLES TO THE SEWER MAIN UNLESS OTHERWISE SHOWN AS APPROVED BY THE CITY OF COACHELLA ON THE PLANS.
- 20. A 2-INCH HIGH "S" SHALL BE INSCRIBED ON THE CURB FACE AT EACH LATERAL LOCATION BY THE
- 21. A 10 GAUGE SHIELDED COPPER WIRE SHALL BE BURIED OVER EACH LATERAL. THE WIRE SHALL EXTEND UP TO A 2" COPPER TAG TIED AND SOLDERED TO THE WIRE. THE TAG OVER THE SEWER MAIN SHALL TERMINATE 6" ABOVE PAVING SUBGRADE WITH FINAL LOCATION JUST BELOW PAVING. THE TAG OVER THE CUSTOMER END OF THE LATERAL SHALL EXTEND ABOVE GRADE UNTIL CONNECTED AND SHALL THEREAFTER BE BURIED AT THE POINT OF
- 22. ALL PIPES SHALL BE HANDLED AND INSTALLED SO AS TO PROTECT PIPE, JOINTS, LINING, AND COATING. THE PIPE SHALL BE CAREFULLY BEDDED TO PROVIDE CONTINUOUS BEARING AND PREVENT UNEVEN SETTLEMENT. PIPE SHALL BE PROTECTED AGAINST FLOTATION AT ALL TIMES. OPEN ENDS OF PIPE SHALL BE SEALED AT ALL TIMES WHEN CONSTRUCTION IS NOT IN PROGRESS.
- 23. PIPE JOINTS SHALL NOT BE DEFLECTED UNLESS SO DESIGNED AND SHALL THEN BE LIMITED TO LESS THAN ONE-HALF OF THE ANGLE RECOMMENDED BY THE PIPE MANUFACTURER. ANY SUCH DEFLECTION ANGLES SHALL BE SHOWN ON THE DESIGN DRAWINGS FOR EACH JOINT CONNECTION OF PIPE.
- 24. SEWER PIPE ZONE AND TRENCH BACKFILL SHALL BE PER THE CITY OF COACHELLA SEWER STANDARDS.
- 25. ALL LATERALS SHALL BE CONSTRUCTED CLEAR OF DRIVEWAYS WHENEVER POSSIBLE.
- 26. ALL SEWERS MAINS SHALL BE HYDRO-JETTED AND LOW PRESSURE AIR TESTED, AT THE CONTRACTORS EXPENSE PRIOR TO CONSIDERATION FOR FINAL ACCEPTANCE BY THE CITY OF COACHELLA. AIR TEST SHALL BE DONE AFTER CONSTRUCTION OF ALL OTHER UTILITIES AND UTILITY LATERALS. THE CONTRACTOR SHALL PROVIDE TELEVISED INSPECTION (CCTV) UNDER DIRECT SUPERVISION OF THE INSPECTOR. VIDEO TAPES OF SEWER FACILITIES SHALL BE PROVIDED TO THE CITY PRIOR TO FINAL ACCEPTANCE.
- 27. ALL SEWERS AND LATERALS SHALL BE IN PLACE AND SHALL HAVE FINAL APPROVAL BY THE CITY OF COACHELLA INSPECTOR PRIOR TO PAVING.
- 28. THE CONTRACTOR SHALL NOTIFY THE CITY OF COACHELLA 72 HOURS PRIOR TO STARTING ANY WORK. A PRE-CONSTRUCTION MEETING SHALL BE SET-UP WITH THE CITY OF COACHELLA ENGINEERING DEPARTMENT. THE CONTRACTOR, HIS SUBCONTRACTORS, AND A REPRESENTATIVE FROM EACH OF THE UNDERGROUND UTILITIES SHALL
- 29. ALL WORK SHALL CONFORM WITH THE CITY OF COACHELLA IMPROVEMENT STANDARDS AND SPECIFICATIONS AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK) LATEST EDITION, A.P.W.A. AND THESE PLANS.

GENERAL NOTES FOR WATER IMPROVEMENT PLANS

- ALL WATER MAINS SHALL BE CLASS 200 P.V.C., AWWA C-900 (6" TO 12" DIAMETER) SIZE AS SHOWN ON THE PLANS. ALL WATER MAINS LARGER THAN 12" DIAMETER SHALL BE CLASS 200 PVC AWWA C-905 OR DUCTILE IRON PIPE (DIP) WITH CL250 FOR 18" DIAMETER, AND CL200 FOR 24" DIAMETER AND LARGER.
- FIRE HYDRANTS SHALL BE 6" WET BARREL TYPE WITH ONE 4" OPENING AND TWO 2-1/2" OPENING PER CITY STANDARD DRAWING W-4. FIRE HYDRANT SHALL BE JONES MODEL NO. J-3765 OR CLOW MODEL NO. 860 OR APPROVED EQUAL. ALL FIRE HYDRANTS SHALL BE BOLTED TO A BREAK-OFF CHECK VALVE, LONG BEACH IRON WORKS MODEL NO. LB-400 OR APPROVED EQUAL.
- GATE VALVES SHALL BE RESILIENT-SEATED WITH NON-RISING STEMS CONFORMING TO AWWA C-509-80. VALVES 12" AND ABOVE SHALL BE BUTTERFLY VALVES. ALL VALVES SHALL BE FLANGED X FLANGED.
- WATER SERVICES SHALL BE POLYETHYLENE PIPE, CLASS 200, FOR 1" IRON PIPE SIZE. FOR 1 1/2"-2" -COPPER TUBING SIZE. 1" WATER SERVICE UNLESS OTHERWISE NOTED.
- WATER METER SHALL BE A MINIMUM 3/4" x 7-1/2" BL-06-NAA-2 (3G-DS, MASTER METER) INSTALLED PER CITY STANDARD DRAWING W-8. METER BOX SHALL BE 4-1/2" POLYMER CONCRETE WITH ONE PIECE COVER AND SHALL HAVE A QUICK READ PORT.
- THE MINIMUM COVER FOR WATER MAIN DISTRIBUTION AND LATERALS SHALL BE 36 INCHES. STREET SHALL BE BROUGHT TO SUBGRADE AND SEWER MAIN SHALL BE INSTALLED BEFORE WATER MAIN LINE IS INSTALLED.
- SERVICE LINES SHALL HAVE A MINIMUM COVER OF 30 INCHES AT CURB.
- WATER SERVICES SHALL BE LOCATED AS CLOSE TO THE CENTER OF THE LOT AS PRACTICABLE. IN NO CASE SHALL WATER SERVICES BE LOCATED IN DRIVEWAYS.
- TRENCH EXCAVATION, PIPE BEDDING AND BACKFILL SHALL CONFORM TO CITY OF COACHELLA STANDARD DRAWINGS W-5 AND S-30, AND SHALL BE CERTIFIED BY A REGISTERED SOILS ENGINEER PRIOR TO PLACEMENT OF STREET PAVING OR CONCRETE.

GENERAL NOTES FOR WATER IMPROVEMENT PLANS (CONTINUED)

- 10. IT SHALL BE THE WATER CONTRACTOR'S RESPONSIBILITY TO SET WATER VALVES LID AND COVER TO FINISH GRADE AFTER PAVING IN ACCORDANCE WITH CITY OF COACHELLA STANDARD DRAWING W-12, ALL VALVES MUST BE "WORKABLE" AT ALL TIMES.
- CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION REQUESTING A SYSTEM SHUTDOWN FOR CONNECTIONS TO EXISTING SYSTEM. SAID NOTIFICATION SHALL BE MADE TO THE CITY ENGINEER. A MINIMUM OF THREE (3) WEEKS PRIOR TO REQUESTED SHUTDOWN. ALL CONNECTIONS OR TIE-INS TO THE EXISTING FACILITIES REQUIRING SYSTEM SHUTDOWN AND DRAINING OF THE EXISTING FACILITIES SHALL BE DONE AT NIGHT OR AS APPROVED BY
- 12. EACH LOT SHALL BE SUPPLIED BY A SEPARATE SERVICE LINE TAPPED DIRECTLY TO THE MAIN LINE WITH A CORPORATION STOP AND BE PROVIDED WITH ANGLE METER STOP AT THE METER PER CITY STANDARD DRAWING NO. W-8, W-9 AND W-10. A 3/4-INCH HIGH LETTER "W" SHALL BE CHISELED IN THE TOP OF EXISTING CURB OR IMPRINTED IN NEW CURB AT ALL WATER SERVICE CONNECTIONS.
- AIR VACUUM AND AIR RELEASE ASSEMBLIES SHALL BE INSTALLED A MIN. OF 12" ABOVE GRADE AND IN ACCORDANCE WITH CITY STANDARD DRAWINGS. AIR RELEASE VALVES SHALL BE INSTALLED AT ALL HIGH POINTS AND BLOW-OFFS AT ALL LOW POINTS IN THE WATER LINE PROFILE. FIRE HYDRANTS CAN BE USED IN LIEU OF A MANUAL AIR RELEASE OR BLOW-OFF WHEN LOCATED NEAR THE HIGH POINT OR LOW POINTS IN THE PROFILE.
- 14. THE CONTRACTOR SHALL TEST AND CHLORINATE NEW WATER MAINS AND SERVICES AND PROVIDE BACTERIOLOGICAL TEST RESULTS TO THE CITY OF COACHELLA PRIOR TO CONNECTING TO EXISTING WATER MAIN, ALL SUCH CONNECTIONS SHALL BE PERFORMED IN THE PRESENCE OF A CITY INSPECTOR.
- CONTRACTOR SHALL DISINFECT ALL PIPELINES AND APPURTENANCES AFTER THEY HAVE BEEN SUBJECTED TO HYDROSTATIC AND LEAKAGE TESTING. PRIOR TO DISINFECTION, THE NEW LINES SHALL BE FLUSHED TO CLEAN ALL DIRT INSIDE, THE METHOD OF DISINFECTING SHALL CONFORM TO PROVISIONS OF AWWA C-601 (LATEST). THE CONCENTRATION OF THE DOSAGE APPLIED SHALL BE PRESCRIBED BY THE CITY AND SHALL BE AT LEAST 50 PPM AND IT SHALL NOT EXCEED 200 PPM. CHLORINATED WATER SHALL REMAIN IN THE PIPE LONG ENOUGH TO DESTROY ALL NON-SPORE-FORMING BACTERIA (MIN. 24 HOURS).
- ALL VALVES, ELBOWS, AND TEES SHALL BE SUPPORTED BY THRUST BLOCK PER CITY STANDARD DRAWINGS W-13.1 & W-13.2.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL EXPOSE EXISTING WATERLINES AT PROPOSED CONNECTIONS AND CROSSINGS AND VERIFY ELEVATIONS, LOCATIONS, AND SIZE OF EXISTING FACILITIES.
- WHENEVER A WATERLINE ENCOUNTERS OTHER UTILITIES, THE WATERLINE SHALL CROSS UNDER THE OBSTRUCTION WITH A MINIMUM CLEARANCE OF 12 INCHES. THE WATERLINE PLACED UNDER STORM DRAIN OR OTHER NONPOTABLE LINES SHALL BE ENCASED IN STEEL PIPE PER CITY OF COACHELLA AND STATE DEPARTMENT OF HEALTH SERVICES REQUIREMENTS.
- STATIONING FOR PIPELINE AS SHOWN ON PLAN PORTION OF DRAWINGS IS PERPENDICULAR TO CENTERLINE OF RIGHT-OF-WAY (STREET).
- PIPELINES SHALL BE CONSTRUCTED SO THAT ACTUAL FLOW LINE ELEVATIONS ARE WITHIN 0.1 FOOT OF DESIGN FLOW LINE ELEVATIONS. PIPELINES, WHEN INSTALLED, SHALL HAVE CONTINUOUS UPGRADE OR DOWNGRADE, CORRESPONDING WITH DESIGN SLOPE, WITHOUT ANY HIGH SPOTS. PIPELINES SHALL BE CONSTRUCTED SO THAT ACTUAL PIPELINE CENTERLINES ARE WITHIN 0.1 FOOT OF DESIGN PIPELINE CENTERLINES.
- PIPELINE CONSTRUCTION SHALL CONFORM WITH CONSTRUCTION DRAWINGS IN ACCORDANCE WITH THE ABOVE SPECIFIED TOLERANCES, CONTRACTOR SHALL ASSIST CITY AS REQUIRED TO CONFIRM COMPLIANCE WITH CONSTRUCTION TOLERANCES. CONTRACTOR SHALL MAKE OR ASSIST IN MAKING ALL NECESSARY MEASUREMENTS AS DETERMINED BY CITY.
- 22. ALL FITTINGS SHALL BE FLANGED WITH MECHANICAL JOINT ADAPTER AND WRAPPED IN 10 MIL PLASTIC.
- ALL NUTS AND BOLTS SHALL BE STAINLESS STEEL.
- BLUE DOT MARKERS SHALL BE PLACED ADJACENT TO FIRE HYDRANTS LOCATED 12 INCHES OFF THE CENTERLINE OF THE STREET.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF COACHELLA ENGINEERING DEPARTMENT 72 HOURS IN ADVANCE OF STARTING ANY WORK. A PRE-CONSTRUCTION MEETING SHALL BE SET-UP WITH THE CITY OF COACHELLA ENGINEERING DEPARTMENT. THE CONTRACTOR, HIS SUBCONTRACTORS, AND A REPRESENTATIVE FROM EACH OF THE UNDERGROUND UTILITIES SHALL BE PRESENT.
- 26. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND NOTIFY COMPANIES 48 HOURS IN ADVANCE OF THE BEGINNING OF CONSTRUCTION AND CALL U.S.A. UNDERGROUND SERVICES ALERT AT 811.





GABRIEL N. RODRIGLIE

R.C.E. C-69948

PARSONS 3200 EAST GUASTI ROAD, SUITE 200 ONTARIO, CALIFORNIA 91761

08-16-13 EXP. DATE: 09-30-14

APPROVED BY: JONATHAN D. HOY EXP. DATE: 09-30-14 R.C.E. C-63526 JENNIFER CHAN CHECKED BY: KEVIN YANG RECOMMENDED BY: GABRIEL RODRIGUEZ REVISIONS BY APPR, DATE

CITY FILE NO CITY OF COACHELLA 2009 - 18AVENUE 52 / GRAPEFRUIT BLVD DRAWING NO GRADÉ SEPARATION N-2**GENERAL NOTES**

SHEET <u>3</u> (183 SHEETS

CONSTRUCTION NOTES

- 1 CONSTRUCT 0.55' HMA OVER 1.05' CLASS 2 AB
- 2 CONSTRUCT 0.40' HMA OVER 0.65' CLASS 2 AB
- 3 CONSTRUCT 0.25 HMA OVER 0.50' CLASS 2 AB
- 4 SAWCUT EXIST AC PAVEMENT
- (5) CONSTRUCT 4" THICK PCC SIDEWALK PER C.O.C STD S-25.1
- 6) CONSTRUCT TYPE "A" (6") CURB AND GUTTER PER C.O.C. STD S-7
- 7 CONSTRUCT TYPE "B" (8") CURB AND GUTTER PER C.O.C. STD S-8
- 8 CONSTRUCT TYPE "D" (8") CURB PER C.O.C. STD S-10
- (9) CONSTRUCT CURB RAMP PER C.O.C STD S-17 AND S-26
- (10) CONSTRUCT CURB RAMP PER RIVERSIDE COUNTY STD NO. 403 (CASE B)
- (1) CONSTRUCT CROSS GUTTER AND SPANDREL PER C.O.C STD S-14
- (12) CONSTRUCT COMMERCIAL DRIVEWAY PER C.O.C. STD S-18, S19-1, AND S-19.2
- (13) CONSTRUCT RETAINING WALL PER RETAINING WALL PLANS (14) REMOVE EXIST AC PAVEMENT
- (15) REMOVE EXIST PCC CURB AND GUTTER
- REMOVE EXIST PCC SIDEWALK AND/OR DRIVEWAY
- (17) REMOVE EXIST MASONARY BLOCK WALL
- REMOVE EXIST PCC CURB RAMP
- 19 REMOVE EXIST PCC CROSS GUTTER AND SPANDREL
- (20) REMOVE EXIST BUILDING AND FACILITIES
- (21) CONSTRUCT CURB INLET CATCH BASIN PER C.O.C STD DETAIL SD-1.1, L AND H PER PLAN, GUTTER DEPRESSION PER C.O.C STD DETAIL SD-2, CASE C.
- 22) CONSTRUCT PARKWAY DRAIN PER SPPWC STD. DETAIL 1, 151-2, S PER PLAN
- 23) CONSTRUCT MANHOLE PER RCFC & WCD STD. DETAIL MH 251, H & P PER PLAN
- 24) CONSTRUCT FLARED END SECTION PER CTSP D94B
- 25) CONSTRUCT 18" RCP
- 26 CONSTRUCT 24" RCP
- ② CONSTRUCT 30" RCP
- CONSTRUCT 1/4 TON RSP, 60" WIDE
- CONSTRUCT RETENTION BASIN PER DETAIL ON SHT D-3
- (30) CONSTRUCT EARTHEN CHANNEL PER DETAIL ON SHT L-6
- (31) CONSTRUCT 0.55' HMA OVER 1.20' CLASS 2 AB
- (32) REMOVE EXISTING PIPE
- INSTALL TEMPORARY FIBER ROLL
- 34) INSTALL TEMPORARY SILT FENCE
- (35) CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE
- (36) CONSTRUCT TEMPORARY DRAINAGE INLET PROTECTION
- (37) INSTALL PORTABLE CONCRETE WASHOUT FACILITY
- 38 INSTALL TEMPORARY CHECK DAM
- (39) REMOVE EXIST PCC PAVEMENT
- 40) CONSTRUCT PCC RIBBON GUTTER PER C.O.C. STD S-13 WITH MODIFIED WIDTH (4')
- (41) CONSTRUCT TYPE "D" (6") CURB PER C.O.C. STD S-10
- 42) CONSTRUCT TEMPORARY FENCE (TYPE ESA) PER CTSP T65
- 43 CONSTRUCT CURB OPENING AND GRAVEL MULCH (2" GRAY) PER DETAIL ON SHT CD-10
- (44) CONSTRUCT 6' GARDEN WALL PER C.O.C. STD S-29
- (45) CONSTRUCT 8" THICK PCC SIDEWALK PER C.O.C STD S-25.1
- (46) GRIND (0.15' MIN) AND OVERLAY EXISTING AC PAVEMENT

WATERLINE CONSTRUCTION NOTES

- (4) INSTALL 16" D.I.P. C-105 WITH CEMENT MORTAR LINING PER CITY OF COACHELLA STD.
- (48) INSTALL CONCRETE THRUST BLOCK PER CITY OF COACHELLA STD. NO. W-13.1
- INSTALL 16"x16" 45' BEND FLG X MJ WITH RESTRAINT JOINTS
- INSTALL 16"x12" REDUCERS W/ RESTRAINT JOINTS
- (5) INSTALL 2" AIR VAC & AIR RELEASE ASSEMBLY PER CITY OF COACHELLA STD. NO. W-1
- (52) INSTALL 6" FIRE HYDRANT PER CITY OF COACHELLA STD. NO. W-4
- INSTALL 24" STEEL CASING
- INSTALL 14" STEEL CASING FOR 12" PVC CROSSING UNDER SEWER/STORM DRAIN
- INSTALL 12"x12" 45' BEND FLG X MJ WITH RESTRAINT JOINTS
- (56) INSTALL 12"x12"x12" TEE PACKAGE
- (57) INSTALL 12" PIPE END CAP
- (58) INSTALL 2" BLOW-OFF PER CITY OF COACHELLA STD. NO. W-2
- (59) INSTALL STANDARD WATER SERVICE (UNDER 2") PER CITY OF COACHELLA STD. NO. W-8
- INSTALL 12"X12" 90° BEND
- INSTALL 12" RS GATE VALVE
- REMOVE 12" ACP WATERLINE
- REMOVE 6" ACP WATERLINE
- REMOVE FIRE HYDRANT AND APPURTENANCES
- 65) CONNECT 12" P.V.C. TO EXISTING VALVE CLUSTER
- 66 INSTALL 6" P.V.C. C-900 CL-200 PER CITY OF COACHELLA STD. NO. W-5
- (67) INSTALL 12" P.V.C. C-900 CL-200 PER CITY OF COACHELLA STD. NO. W-5
- (68) NOT USED
- (69) NOT USED

SANITARY SEWER CONSTRUCTION NOTES

- (70) CONSTRUCT 18" PVC SDR-26 SEWER
- (7) CONSTRUCT 36" STEEL JACKED CASING PER DETAIL 2 ON SHEET U-SS4
- 72) CONSTRUCT 60" MANHOLE PER CITY STD DRAWING NO. D-3
- (73) INSTALL BEDDING AND BACKFILL PER CITY STD DRAWING NO. D-4
- 24 EXISTING 10" SEWER TO BE FILLED WITH CEMENT SLURRY AND ABANDONED AFTER NEW
- (75) EXISTING MANHOLE TO BE ABANDONED PER DETAIL 1 ON SHEET U-SS4
- (76) CONSTRUCT 6" PVC SDR 21 SEWER
- (7) EXISTING 18" SEWER TO BE FILLED WITH CEMENT SLURRY AND ABANDONED AFTER NEW SEWER LINE IS ACTIVE
- (78) CONSTRUCT BORE AND RECEIVING PIT
- ADJUST MANHOLE TO GRADE
- (80) BULKHEAD PIPE STUB AT MANHOLE





GABRIEL N. RODRIGUEZ

R.C.E. C-69948

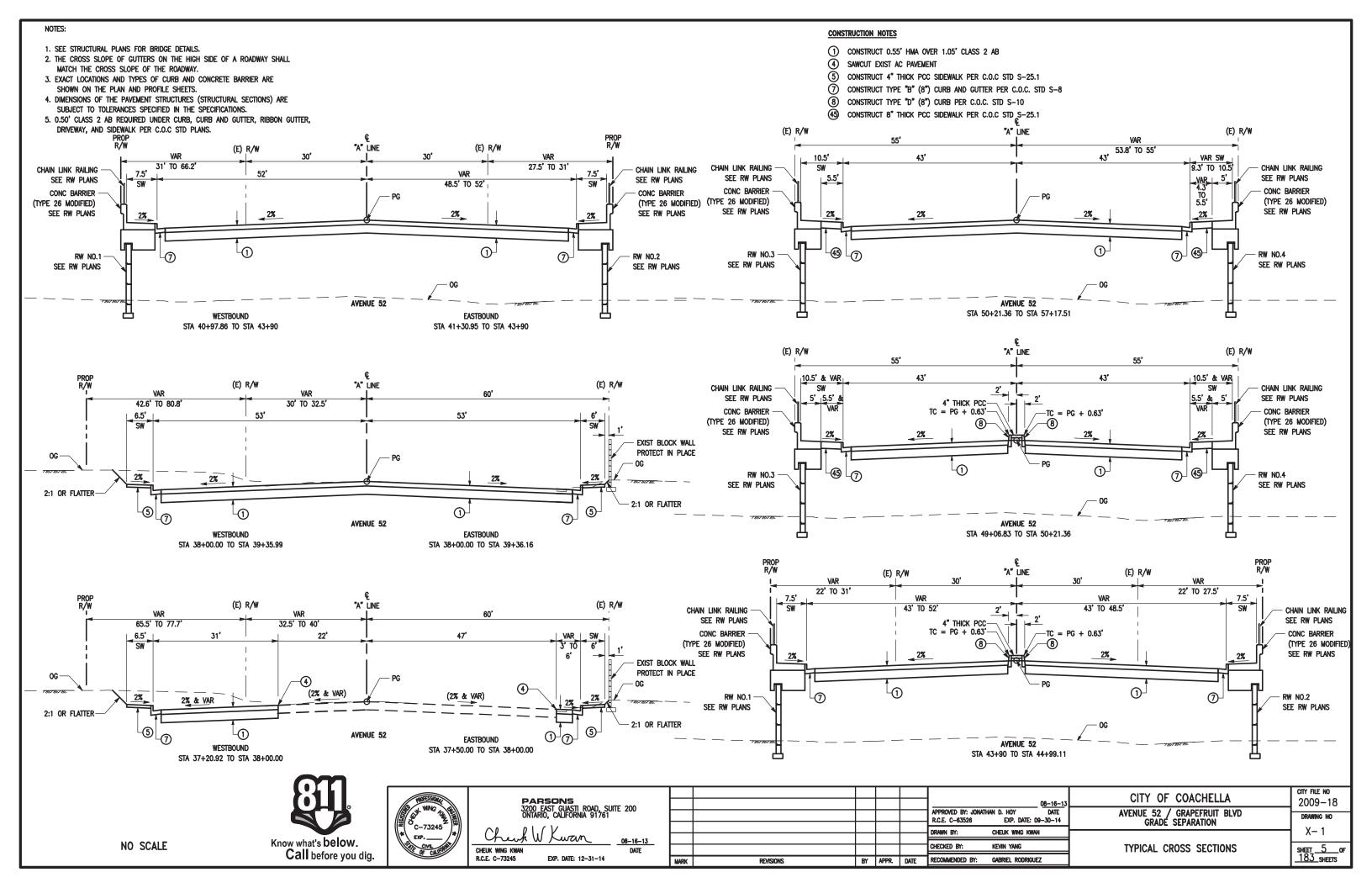
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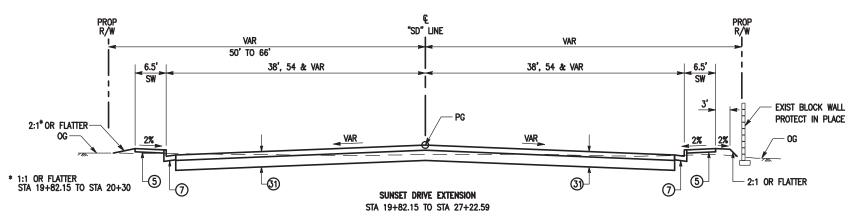
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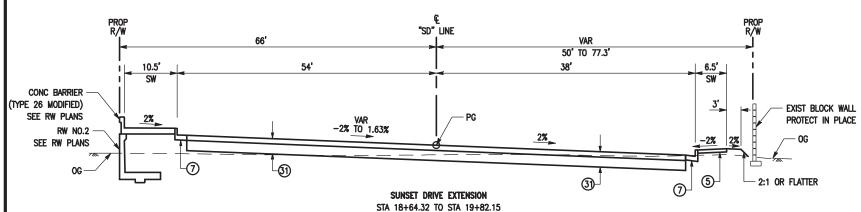
CITY FILE NO CITY OF COACHELLA 2009 - 18AVENUE 52 / GRAPEFRUIT BLVD DRAWING NO GRADÉ SEPARATION N-3**CONSTRUCTION NOTES** SHEET 4 (183 SHEETS

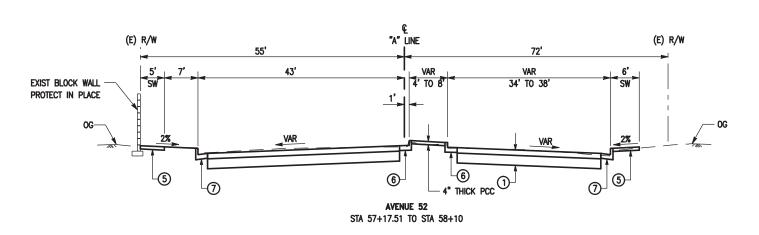


NOTES:

- 1. SEE STRUCTURAL PLANS FOR BRIDGE DETAILS.
- 2. THE CROSS SLOPE OF GUTTERS ON THE HIGH SIDE OF A ROADWAY SHALL MATCH THE CROSS SLOPE OF THE ROADWAY.
- 3. EXACT LOCATIONS AND TYPES OF CURB AND CONCRETE BARRIER ARE SHOWN ON THE PLAN AND PROFILE SHEETS.
- 4. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE SPECIFICATIONS.
- 5. 0.50' CLASS 2 AB REQUIRED UNDER CURB, CURB AND GUTTER, RIBBON GUTTER, DRIVEWAY, AND SIDEWALK PER C.O.C STD PLANS.

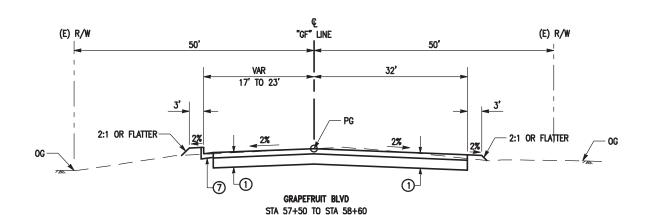


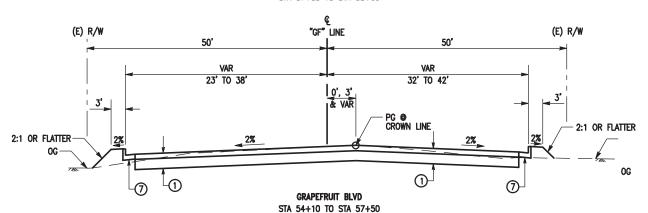


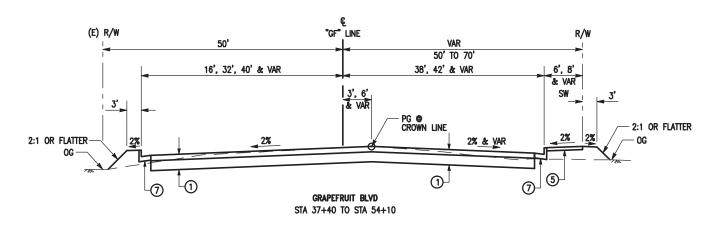


CONSTRUCTION NOTES

- 1 CONSTRUCT 0.55' HMA OVER 1.05' CLASS 2 AB
- 5 CONSTRUCT 4" THICK PCC SIDEWALK PER C.O.C STD S-25.1
- 6 CONSTRUCT TYPE "A" (6") CURB AND GUTTER PER C.O.C. STD S-7
- 7 CONSTRUCT TYPE "B" (8") CURB AND GUTTER PER C.O.C. STD S-8
- 3) CONSTRUCT 0.55' HMA OVER 1.20' CLASS 2 AB









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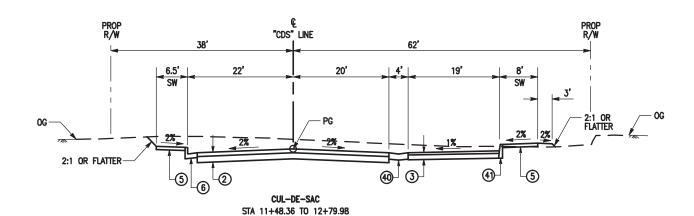
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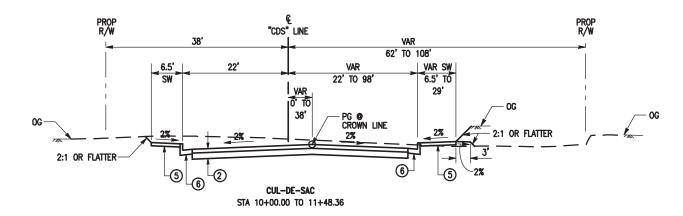
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NOTES:

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CONSTRUCTION NOTES

- 2 CONSTRUCT 0.40' HMA OVER 0.65' CLASS 2 AB
- 3 CONSTRUCT 0.25' HMA OVER 0.50' CLASS 2 AB
- (5) CONSTRUCT 4" THICK PCC SIDEWALK PER C.O.C STD S-25.1
- 6 CONSTRUCT TYPE "A" (6") CURB AND GUTTER PER C.O.C. STD S-7
- 40 CONSTRUCT PCC RIBBON GUTTER PER C.O.C. STD S-13 WITH MODIFIED WIDTH (4')
- 4) CONSTRUCT TYPE "D" (6") CURB PER C.O.C. STD S-10



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					CHECKED BY: KEVIN YANG	1
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