

Meeting Date: 6/2/2015

Report Type: Consent

Report ID: 2015-00513

Title: Contract: Cabrillo Pool Renovation Project (L19111300)

Location: District 8

Recommendation: Pass a Motion: 1) approving the construction plans and specifications for Cabrillo Pool Renovation project (L19111300); 2) rejecting all bids submitted on March 25, 2015; 3) awarding the contract to American Construction Engineers for an amount not to exceed \$294,324; and 4) authorizing the City Manager or City Manager's designee to execute the contract with American Construction Engineers for an amount not to exceed \$294,324.

Contact: Shannon Brown, Parks Maintenance Manager, (916) 808-4070, Department of Parks and Recreation; Yadi Kavakebi, Facilities & Real Property Superintendent, (916) 808-8432, Department of Public Works

Presenter: None

Department: Parks & Recreation Department

Division: Aquatics

Dept ID: 19001521

Attachments:

- 1-Description/Analysis
- 2-Background
- 3-Cabrillo Pool Contract
- 4-Division 1 specifications-part 1
- 5-Division 1 specifications-part 2
- 6-Technical Specifications
- 7-Cabrillo Pool Drawings

City Attorney Review

Approved as to Form
Sheryl Patterson
5/19/2015 8:27:55 AM

Approvals/Acknowledgements

Department Director or Designee: Jim Combs - 5/15/2015 10:25:24 AM

Description/Analysis

Issue Detail: Staff is seeking approval to award a contract to American Construction Engineers for the renovation of Cabrillo Pool, located at John Cabrillo Park in District 8. The contract amount is not-to-exceed \$294,324. The improvements will consist of various pool repairs, recoating of fiberglass, and concrete deck repair/sealing.

An initial bid process resulted in three bids submitted on March 25, 2015. The two low bidders failed to meet the Local Business Enterprise requirement and the price of the additive varied significantly. As a result, staff reissued the solicitation to include the additive as part of the base bid and the same three bidders submitted new bids. The formal bid process for this project has now been completed and American Construction Engineers has been selected as the lowest responsible and responsive bidder.

A summary of the project background, specifications, and drawings are included as attachments to this report.

Policy Considerations: Providing parks and recreation facilities is consistent with the City's strategic plan to enhance livability in Sacramento's neighborhoods by expanding park, recreation, and trail facilities throughout the City. This project is also part of the 2014-2019 Capital Improvement Budget/Swimming Pool Rehabilitation Program under the Department of Parks and Recreation.

Economic Impacts: The indicated economic impacts are estimates calculated using a calculation tool developed by the Center for Strategic Economic Research (CSER). CSER utilized the IMPLAN input-output model (2009 coefficients) to quantify the economic impacts of a hypothetical \$1 million of spending in various construction categories within the City of Sacramento in an average one-year period. Actual impacts could differ significantly from the estimates and neither the City of Sacramento nor CSER shall be held responsible for consequences resulting from such differences.

This pool maintenance project, which totals \$294,324, is expected to create 2.0 total jobs (1.2 direct jobs and 0.8 additional jobs through indirect and induced activities). Furthermore, it will create \$181,726 in total economic output (\$114,543 of direct output and another \$67,183 of output through indirect and induced activities).

Environmental Considerations: California Environmental Quality Act (CEQA): In accordance with Section 15301 of the CEQA Guidelines, no environmental review is necessary because the recommendations in this report involve the minor alteration of existing structures without an expansion of use beyond the previously existing level of use.

Sustainability: Not applicable

Commission/Committee Action: None

Rationale for Recommendation: The formal bidding process for the Cabrillo Pool Renovation was posted in accordance with City Code 3.60 and Administrative Policy Instruction #48. The bids were opened on April 22, 2015. Staff received 3 bids and the results are listed below.

Contractor	Total Bid	LBE %
American Construction Engineers	294,324	5.0
Tricon Construction, Inc.	309,547	7.1

M.A. Steiner	332,779	37.5
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To be considered a responsible bidder, the minimum Local Business Enterprise participation is 5%.

The Engineer's Estimate for this project was \$305,000. Pursuant to City Code Section 3.60.020 and 3.60.360 E, it was determined that American Construction Engineers has the lowest, responsible total bid and is a responsible bidder.

Financial Considerations: Sufficient Proposition 1C grant funding (Fund 3704) and Measure U funding (Fund 2401) is available in the project budget (L19111300) to award American Construction Engineers in an amount not to exceed \$294,324.

Local Business Enterprise (LBE): American Construction Engineers has satisfied the City's LBE requirements.

Background

The Parks and Recreation Department is responsible for the safe operation of twelve public swimming pools located throughout the City of Sacramento. Cabrillo Pool, located at 1648 65th Avenue, has been closed for over three years waiting on available funds for renovation with the primary repair needed being a fiberglass re-coating of the entire existing pool. This surface restoration is necessary to meet County Department of Public Health and Safety regulations and permit Cabrillo pool to be re-opened.

The Cabrillo Pool renovation project is now fully funded for the necessary repairs:

- December 2014: the City of Sacramento successfully obtained approval and authorization of Proposition 1C funds from the State of California, Department of Housing and Community Development in the amount of \$292,797.
- January 2015: City Council approved Measure U funds, in the not-to-exceed amount of \$80,000 to assist with any ineligible grant reimbursements and provide for contingencies.

Proposition 1C funding guidelines require that a public bidding process specific to the project be conducted. The project was initially advertised on March 6, 2015. However, due to necessary bid clarifications, this bid was re-advertised on March 31st. As a result of this delayed bid award and a minimum of a four month construction (fiberglass curing time) schedule, Cabrillo Pool will officially re-open in 2016.



Requires Council Approval: No YES Meeting: 6-2-15

Real Estate Other Party Signature Needed Recording Requested

General Information

Type: Public Project Informal Bid-Prof Service	PO Type:	Attachment: Original No.:
\$ Not to Exceed: \$294, 324.00		Original Doc Number:
Other Party:		Certified Copies of Document::
Project Name: CABRILLO POOL RENOVATION PROJECT		Deed: <input type="checkbox"/> None <input type="checkbox"/> Included <input type="checkbox"/> Separate
Project Number: L19111300	Bid Transaction #:B15190011002	LBE: 5%

Department Information

Department: **Parks and Recreation** Division: **PARK OPS**
 Project Mgr: **JOSETTE RIENA** Supervisor: **SHANNON BROWN**
 Contract Services: **Tim Hopper** Date: **4-22-15** Division Mgr:
 PM Phone Number: **808-1956** Org Number: **19001131**
 Comment:

Review and Signature Routing

Department	Signature or Initial	Date
Project Mgr:	TH FOR JR	5-11-15
Accounting:		
Contract Services:	Tim Hopper	4-22-15
Supervisor:		
Division Manager:		
City Attorney	Signature or Initial	Date
City Attorney:	Sheryl Patterson	

Call Tim Hopper x8173 Notify for Pick Up

Authorization	Signature or Initial	Date
Combs, James Department Director:		
City Mgr: yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

Contract Cover/Routing Form: Must Accompany ALL Contracts; however, is not part of the contract. (01-01-09)

For City Clerk Processing

Finalized:
Initial: _____
Date: _____

Imaged:
Initial: _____
Date: _____

Received:
(City Clerk Stamp Here)

B15190011002

**CONTRACT SPECIFICATIONS
FOR
CABRILLO POOL RENOVATION PROJECT REBID (L19111300-1)**

Plans Attached

For Pre-Bid Information Call:
Josette Reina, Project Manager
(916) 808-1956

Bids to be received before
2:00 PM, Wednesday,
APRIL 22, 2015
New City Hall
Clerk's Public Counter
915 I Street, 5th Floor
Sacramento, CA 95814

Estimated Construction Cost: \$298,000.00

Construction Time: SIXTY (60) WORKING DAYS

The City of Sacramento's Local Business Development program establishes an annual local business enterprise (LBE) participation goal for City contracts, and authorizes City departments to require minimum LBE participation levels in individual contracts. Under City Code section 3.60.270, all bidding contractors must meet or exceed the minimum LBE participation requirement specified in the contract's bid specifications to qualify as a responsive bidder.

For information on meeting the City of Sacramento's Local Business Enterprise (LBE) project goals, please contact Veronica A. Smith at (916) 808-1046, or visit the City of Sacramento's small business web site at: <http://www.cityofsacramento.org/econdev/business-open/small-business-certification.cfm>

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**City of Sacramento
Formal Bid / Proposal Delivery Options**

Any vendor and/or consultant submitting an official bid or proposal to the City of Sacramento City Clerk’s Office, shall select one of the following delivery options. To ensure responsive receipt of bids and/or proposals within established submission deadlines, address information must exactly match one of the below options.

Effective April 17, 2009, the City of Sacramento’s receiving hours are 8am to Noon Monday through Friday. If sending bids via Option 2 - Expedited Services, the bid must be delivered prior to noon or it will not be delivered until the following business day. The City of Sacramento is not responsible for the late receipt of bids and/or proposals where the proposer did not adhere to one of the available delivery options.

Option	Service Provider and/or Service Types	Address
1.	United States Postal Service (USPS) - Regular First Class - Certified or Return Receipt - Priority - Express	Sacramento City Clerk’s Office <i>Public Counter, New City Hall</i> <i>915 I Street, 5th Floor</i> Sacramento, CA 95812-2391
2.	Expedited Services – <u>Receiving Hours are 8am to Noon Monday through Friday</u> - FedEx - UPS - DHL	Sacramento City Clerk’s Office <i>Public Counter, New City Hall</i> <i>915 I Street, 5th Floor</i> Sacramento, CA 95814-2604
3.	Personal Delivery - Hand Delivery - Courier	Sacramento City Clerk’s Office <i>Public Counter, New City Hall</i> <i>915 I Street, 5th Floor</i> Sacramento, CA 95814

NEW PUBLIC WORKS CONTRACTOR REGISTRATION LAW [SB 854]

FACT SHEET

SB 854, a budget trailer bill that was signed into law on June 20, 2014, and became effective immediately, made several significant changes to laws pertaining to the administration and enforcement of prevailing wage requirements by the Department of Industrial Relations (DIR). Among other things, SB 854 established a new public works contractor registration program to replace prior Compliance Monitoring Unit (CMU) and Labor Compliance Program (LCP) requirements for bond-funded and other specified public works projects. The fees collected through this new program will be used to fund all of DIR's public works activities, including compliance monitoring and enforcement, the determination of prevailing wage rates, public works coverage determinations, and hearing enforcement appeals.

Essentials of public works contractor registration program:

- Contractors will be subject to a registration and annual renewal fee that has been set initially at \$300. The fee is non-refundable and applies to all contractors and subcontractors who intend to bid or perform work on public works projects (as defined under the Labor Code).
- Contractors will apply and pay the fee online and must meet minimum qualifications to be registered as eligible to bid and work on public works projects:
 - Must have workers' compensation coverage for any employees and only use subcontractors who are registered public works contractors.
 - Must have Contractors State License Board license if applicable to trade.
 - Must have no delinquent unpaid wage or penalty assessments owed to any employee or enforcement agency.
 - Must not be under federal or state debarment.
 - Must not be in prior violation of this registration requirement once it becomes effective. However, for the first violation in a 12 month period, a contractor may still qualify for registration by paying an additional penalty.
- The registration fee is not related to any project. It is more like a license that enables the registrant to bid on and perform public works.

- DIR will post a list of registered contractors and subcontractors on its website so that awarding bodies and contractors will be able to comply with requirements to only use registered contractors and subcontractors.
- Various protections are built in so that
 - A contractor won't be in violation for working on a private job that is later determined to be public work;
 - The inadvertent listing of an unregistered subcontractor on a bid won't necessarily invalidate that bid;
 - A contract with an unregistered contractor or subcontractor is subject to cancellation but is not void as to past work;
 - An unregistered contractor or subcontractor can be replaced with one who is registered;
 - A contractor whose registration lapses will have a 90 day grace period within which to pay a late fee and renew.
- Registrations will begin after July 1, 2014, once the registration system is ready to go online. The preferred method of payment will be by credit card.
- The requirement to list only registered contractors and subcontractors on bids becomes effective on March 1, 2015. The requirement to only use registered contractors and subcontractors on public works projects applies to all projects awarded on or after April 1, 2015.

Essentials of Public Works Enforcement Fund:

All contractor registration fees will go into the State Public Works Enforcement Fund and be used to fund the following items --

- administration of contractor registration requirement
- all DIR costs for administering and enforcing public works laws
- Labor Commissioner's enforcement of other Labor Code violations on monitored public works projects.

DIR will no longer charge awarding bodies for prevailing wage compliance monitoring and enforcement by the CMU. *(Note: DIR will continue to bill and collect fees from awarding agencies for CMU services provided through June 20, 2014.)*

Related changes in DIR's administration and enforcement of public works requirements:

- Requirements to use CMU or specified alternative (labor compliance program or project labor agreement) for state bond-funded and other specified projects have been eliminated and replaced by requirements that apply to all public works projects (as defined under the Labor Code).
- Awarding bodies are *now* required to submit PWC-100 (contract award notice) for all public works projects. (*This requirement previously applied to about 90% of all projects.*)
- Contractors and subcontractors on *all* public works projects will be required to submit certified payroll records (CPRs) to the Labor Commissioner unless excused from this requirement.
 - This requirement will be phased in as follows:
 - Applies immediately to public works projects that have already been under CMU monitoring, *i.e.* contractors on ongoing projects that have been submitting CPRs to the CMU will continue doing so
 - Will apply to any new projects awarded on or after April 1, 2015
 - May apply to other projects as determined by Labor Commissioner
 - Will apply to all public works projects, new or ongoing, on and after January 1, 2016
 - The Labor Commissioner may make exception to this requirement for
 - Projects covered by qualifying project labor agreement
 - Projects undertaken by one of four remaining awarding bodies with legacy LCPs (Caltrans, City of Los Angeles, County of Sacramento, and Los Angeles Unified School District), so long as those LCPs remain approved by DIR
 - CPRs will be furnished online (as is done currently for CMU). DIR intends to continue making improvements to this process, including creating a means for general contractors to have online access to the CPRs submitted by their subcontractors.
- Requirements for awarding bodies to adopt and enforce a DIR-approved LCP are now limited to: (1) public works projects awarded prior to January 1, 2012 that were under a preexisting LCP requirement; and (2) projects funded in whole or in part by Proposition 84.

Sealed Proposals will be received by the City Clerk of the City of Sacramento at the office of the **City Clerk's Public Counter, New City Hall, 5th Floor**, located at 915 I Street between 9th and 10th Streets, up to the hour of **2:00 PM** on **APRIL 22, 2015** and will be opened as soon thereafter as business allows, in the Council Chambers, City Hall for:

CABRILLO POOL RENOVATION PROJECT REBID (L19111300-1)

as set forth in the Contract Documents.

Proposals received and work performed thereunder shall comply with the requirements of Title 3 of the Sacramento City Code. Each Bid Proposal shall be accompanied by bid security of at least 10% of the sum of the Bid Proposal which conforms to the requirements of Section 7.0 of the Instructions to Bidders. The City reserves the right to reject Proposals or to waive any error or omission in any Bid Proposal received is reserved by the City. Signed proposals shall be submitted on the printed forms contained in the Project Manual and enclosed in an envelope marked: Sealed Bid Proposal for:

CABRILLO POOL RENOVATION PROJECT REBID (L19111300-1)

You can view and download the plans and Contract Documents from:

PLANET BIDS

<http://www.planetbids.com/portal/portal.cfm?CompanyID=15300#>

The contractor and all subcontractors shall comply with the rates of wages currently established by the Director of Industrial Relations under provisions of Sections 1773 of the Labor Code of the State of California, a copy of which is on file in the office of the City Clerk and available to any interested party on request. In accordance with Sacramento City Code Section 3.60.180 and Section 1771.5 of the California Labor Code, the payment of the general prevailing rate of per diem wages or the general prevailing rate of per diem wages for holiday and overtime is not required for any construction project of \$25,000 or less, or an alteration, demolition, repair, and maintenance project of \$15,000 or less. The City of Sacramento has an approved Labor Compliance Program. **The City uses an electronic system for the submission of Labor Compliance Reports, which became effective May 1, 2007.** The contractor and every lower-tier subcontractor shall submit certified payrolls and labor compliance documentation electronically at the discretion of and in the manner specified by the City of Sacramento.

Electronic submittal is via a web-based system, accessed on the World Wide Web by a web browser. Each contractor and subcontractor is given a Log On identification and password to access the City of Sacramento's reporting system.

Use of the system may entail additional data entry of weekly payroll information including; employee identification, labor classification, total hours worked and hours worked on this project, wage and benefit rates paid, etc. The contractor's payroll and accounting software might be capable of generating a 'comma delimited file' that will interface with the software.

Department of Industrial Relations Registration and Reporting Requirements (SB 854)

Labor Code Section 1725.5 (enacted by SB 854) requires all contractors bidding on this contract, all subcontractors listed in a bid for this contract, and any contractor or subcontractor performing any work under this contract, to be currently registered with the California Department of Industrial Relations (DIR), as specified in Labor Code Section 1725.5. Labor Code Section 1771.1 (enacted by SB 854) provides that a contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal (subject to the requirements of Section 4104 of

the Public Contract Code), or engage in the performance of any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code Section 1725.5. Every bidding contractor shall list the contractor's current DIR registration number, and the current DIR registration number of all listed subcontractors, on the Subcontractor and Local Business Enterprise (LBE) Participation Verification Form included in the contractor's bid.

Pursuant to Labor Code Section 1771.1(b): (1) any bid received from a contractor that is not currently registered and qualified to perform public work pursuant to Labor Code Section 1725.5 **shall be rejected as non-responsive**; and (2) any bid listing one or more subcontractors on the bidder's Subcontractor and Local Business Enterprise (LBE) Participation Verification Form that are not currently registered and qualified to perform public work pursuant to Labor Code Section 1725.5, **shall be rejected as non-responsive**, unless the listing was an inadvertent error and any of the conditions specified in Labor Code Section 1771.1(c) apply.

This contract also is subject to compliance monitoring and enforcement by the DIR. For all contracts awarded on or after April 1, 2015, California Labor Code Section 1771.4 (enacted by SB 854) requires the contractor and all subcontractors to furnish electronic payroll records directly to the Labor Commissioner (in addition to City staff via the City's electronic system).

A Fact Sheet summarizing the provisions of SB 854 is attached. This is provided solely for informational purposes, and does not in any way affect the contractor's and subcontractors' obligation to comply in all respects with the provisions of SB 854, including the provisions referenced above, as well as all other applicable laws and regulations.

The contractor shall disseminate these provisions to every lower-tier subcontractor and vendor required to provide labor compliance documentation.

All questions regarding the City's Labor Compliance Program should be directed to the Department's contracts staff or the Labor Compliance Officer at (916) 808-4011.

Pursuant to Sacramento City Code Section 3.60.190, all contractors and subcontractors shall comply with Section 1777.5 et seq., of the California Labor Code governing the employment of apprentices. Pursuant to Sacramento City Code Section 3.60.250 and Public Contract Code Section 22300, any contract awarded pursuant to this invitation to bid shall contain a provision permitting the substitution of securities for monies withheld to ensure performance under the contract, in accordance with the requirements and form specified by the City.

Bid protests must be filed and maintained in accordance with the provisions of Sections 3.60.460 through 3.60.560 of the Sacramento City Code. Bid protests that do not comply with Sections 3.60.460 through 3.60.560 of the Sacramento City Code shall be invalid and shall not be considered. A bid protest fee of \$750.00 is required at the time of filing. The term "bid protest" includes any bid protest that (1) claims that one or more bidders on this contract should be disqualified or rejected for any reason, (2) contests a City staff recommendation to award this contract to a particular bidder, or (3) contests a City staff recommendation to disqualify or reject one or more bidders on this contract. A copy of Sections 3.60.460 through 3.60.560 of the Sacramento City Code may be obtained from the Project Manager, or from the City Clerk, located at 915 I Street, 5th Floor, Sacramento, CA 95814.

**CALIFORNIA LABOR CODE RELATING TO APPRENTICES ON PUBLIC
WORKS PROJECTS**

See following links: www.dir.ca.gov and/or www.leginfo.ca.gov

REQUIREMENTS OF THE NON-DISCRIMINATION IN EMPLOYEE BENEFITS CODE

INTRODUCTION

The Sacramento Non-Discrimination In Employee Benefits Code (the "Ordinance"), codified as Sacramento City Code Chapter 3.54, prohibits City contractors from discriminating in the provision of employee benefits between employees with spouses and employees with domestic partners, and between the spouses and domestic partners of employees.

APPLICATION

The provisions of the Ordinance apply to any contract or agreement (as defined below), between a Contractor and the City of Sacramento, in an amount exceeding \$100,000.00. The Ordinance applies to that portion of a contractor's operations that occur: (i) within the City of Sacramento; (ii) on real property outside the City of Sacramento if the property is owned by the City or if the City has a right to occupy the property; or (iii) at any location where a significant amount of work related to a City contract is being performed.

The Ordinance does not apply: to subcontractors or subcontracts of any Contractor or contractors; to transactions entered into pursuant to cooperative purchasing agreements approved by the Sacramento City Council; to legal contracts of other governmental jurisdictions or public agencies without separate competitive bidding by the City; where the requirements of the ordinance will violate or are inconsistent with the terms or conditions of a grant, subvention or agreement with a public agency or the instructions of an authorized representative of any such agency with respect to any such grant, subvention or agreement; to permits for excavation or street construction; or to agreements for the use of City right-of-way where a contracting utility has the power of eminent domain.

DEFINITIONS

As set forth in the Ordinance, the following definitions apply:

"Contract" means an agreement for public works or improvements to be performed, or for goods or services to be purchased or grants to be provided, at the expense of the City or to be paid out of moneys deposited in the treasury or out of the trust money under the control or collected by the City. "Contract" also means a written agreement for the exclusive use ("exclusive use" means the right to use or occupy real property to the exclusion of others, other than the right reserved by the fee owner) or occupancy of real property for a term exceeding 29 days in any calendar year, whether by singular or cumulative instrument, (i) for the operation or use by others of real property owned or controlled by the City for the operation of a business, social, or other establishment or organization, including leases, concessions, franchises and easements, or (ii) for the City's use or occupancy of real property owned by others, including leases, concessions, franchises and easements.

"Contract" shall not include: a revocable at-will use or encroachment permit for the use of or encroachment on City property regardless of the ultimate duration of such permit; excavation, street construction or street use permits; agreements for the use of City right-of-way where a contracting utility has the power of eminent domain; or agreements governing the use of City property that constitute a public forum for activities that are primarily for the purpose of espousing or advocating causes or ideas and that are generally protected by the First Amendment to the United States Constitution or that are primarily recreational in nature.

"Contractor" means any person or persons, firm partnership or corporation, company, or combination thereof, that enters into a Contract with the City. "Contractor" does not include a public entity.

"Domestic Partner" means any person who has a currently registered domestic partnership with a governmental entity pursuant to state or local law authorizing the registration.

"Employee Benefits" means bereavement leave; disability, life, and other types of insurance; family medical leave; health benefits; membership or membership discounts; moving expenses; pension and retirement benefits; vacation; travel benefits; and any other benefit given to employees. "Employee benefits" shall not include benefits to the extent that the application of the requirements of this chapter to such benefits may be preempted by federal or state.

CONTRACTOR'S OBLIGATION TO PROVIDE THE CITY WITH DOCUMENTATION AND INFORMATION

Contractor shall provide the City with documentation and information verifying its compliance with the requirements of the Ordinance within ten (10) days of receipt of a request from the City. Contractors shall keep accurate payroll records, showing, for each City Contract, the employee's name, address, Social Security number, work classification, straight time pay rate, overtime pay rate, overtime hours worked, status and exemptions, and benefits for each day and pay period that the employee works on the City Contract. Each request for payroll records shall be accompanied by an affidavit to be completed and returned by the Contractor, as stated, attesting that the information contained in the payroll records is true and correct, and that the Contractor has complied with the requirements of the Ordinance. A violation of the Ordinance or noncompliance with the requirements of the Ordinance shall constitute a breach of contract.

EMPLOYER COMPLIANCE CERTIFICATE AND NOTICE REQUIREMENTS

(a) All contractors seeking a Contract subject to the Ordinance shall submit a completed Declaration of Compliance Form (attachment "A"), signed by an authorized representative, with each proposal, bid or application. The Declaration of Compliance shall be made a part of the executed contract, and will be made available for public inspection and copying during regular business hours.

(b) The Contractor shall give each existing employee working directing on a City contract, and (at the time of hire), each new employee, a copy of the notification provided as attachment "B."

(c) Contractor shall post, in a place visible to all employees, a copy of the notice provided as attachment "C."

**DECLARATION OF COMPLIANCE
Equal Benefits Ordinance**

American Construction Engineers
Name of Contractor

26375 Watts Valley Rd., Tollhouse, CA 93667
Address

The above named contractor ("Contractor") hereby declares and agrees as follows:

1. I have read and understand the Requirements of the Non-Discrimination In Employee Benefits Code (the "Requirements") provided to me by the City of Sacramento

("City") in connection with the City's request for proposals or other solicitations for the performance of services, or for the provision of commodities, under a City contract or agreement ("Contract").

2. As a condition of receiving the City Contract, I agree to fully comply with the Requirements, as well as any additional requirements that may be specified in the City's Non-Discrimination in Employee Benefits Code codified at Chapter 3.54 of the Sacramento City Code (the "Ordinance").

3. I understand, to the extent that such benefits are not preempted or prohibited by federal or state law, employee benefits covered by the Ordinance, are any of the following:

- a. Bereavement Leave
- b. Disability, life, and other types of insurance
- c. Family medical leave
- d. Health benefits
- e. Membership or membership discounts
- f. Moving expenses
- g. Pension and retirement benefits
- h. Vacation
- i. Travel benefits
- j. Any other benefit offered to employees

I agree that should I offer any of the above listed employee benefits, that I will offer those benefits, without discrimination between employees with spouses and employees with domestic partners, and without discrimination between the spouses and domestic partners of such employees.

4. I understand that I will not be considered to be discriminating in the provision or application of employee benefits under the following conditions or circumstances:

DECLARATION OF COMPLIANCE
Equal Benefits Ordinance

- a. In the event that the actual cost of providing a benefit to a domestic partner or spouse, exceeds the cost of providing the same benefit to a spouse or domestic partner of an employee, I will not be required to provide the benefit, nor shall it be deemed discriminatory, if I require the employee to pay the monetary difference in order to provide the benefit to the domestic partner or to the spouse.
- b. In the event I am unable to provide a certain benefit, despite taking reasonable measures to do so, if I provide the employee with a cash equivalent, I will not be deemed to be discriminating in the application of that benefit.
- c. If I provide employee benefits neither to employee's spouses nor to employee's domestic partners.
- d. If I provide employee benefits to employees on a basis unrelated to marital or domestic partner status.
- e. If I submit, to the Program Coordinator, written evidence of making reasonable efforts to end discrimination in employee benefits by implementing policies which are to be enacted before the first effective date after the first open enrollment process following the date the Contract is executed with the City.

I understand that any delay in the implementation of such policies may not exceed one (1) year from the date the Contract is executed with the City, and applies only to those employee benefits for which an open enrollment process is applicable.

- f. Until administrative steps can be taken to incorporate, in the infrastructure, nondiscrimination in employee benefits

The time allotted for these administrative steps will apply only to those employee benefits for which administrative steps are necessary and may not exceed three (3) months from the date the Contract is executed with the City.

- g. Until the expiration of a current collective bargaining agreement(s) where, in fact, employee benefits are governed by a collective bargaining agreement(s).
- h. I take all reasonable measures to end discrimination in employee benefits by either requesting the union(s) involved agree to reopen the agreement(s) in order for me to take whatever steps are necessary to end discrimination in employee benefits or by my ending discrimination in employee benefits without reopening the collective bargaining agreement(s).

DECLARATION OF COMPLIANCE
Equal Benefits Ordinance

- i. In the event I cannot end discrimination in employee benefits despite taking all reasonable measures to do so, I provide a cash equivalent to eligible employees for whom employee benefits (as listed previously), are not available.

Unless otherwise authorized in writing by the City Manager, I understand this cash equivalent must begin at the time the union(s) refuse to allow the collective bargaining agreement(s) to be reopened or no longer than three (3) months from the date the Contract is executed with the City.

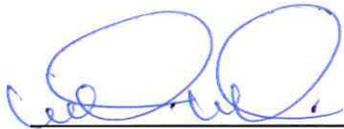
5. I understand that failure to comply with the provisions of Section 4. (a) through 4. (i), above, will subject me to possible suspension and/or termination of this Contract for cause; repayment of any or all of the Contract amount disbursed by the City; debarment for future contracts until all penalties and restitution have been paid in full; deemed ineligible for future contracts for up to two (2) years; the imposition of a penalty, payable to the City, in the sum of \$50.00 for each employee, for each calendar day during which the employee was discriminated against in violation of the provisions of the Ordinance.
6. I understand and do hereby agree to provide each current employee and, within ten (10) days of hire, each new employee, of their rights under the Ordinance. I further agree to maintain a copy of each such letter provided, in an appropriate file for possible inspection by an authorized representative of the City. I also agree to prominently display a poster informing each employee of these rights.
7. I understand that I have the right to request an exemption to the benefit provisions of the Ordinance when such a request is submitted to the Procurement Services Division, in writing with sufficient justification for resolution, prior to contract award.

I further understand that the City may request a waiver or exemption to the provisions or requirements of the Ordinance, when only one contractor is available to enter into a contract or agreement to occupy and use City property on terms and conditions established by the City; when sole source conditions exist for goods, services, public project or improvements and related construction services; when there are no responsive bidders to the Ordinance requirements and the contract is for essential goods or services; when emergency conditions with public health and safety implications exist; or when the contract is for specialized legal services if in the best interest of the City.

8. In consideration of the foregoing, I shall defend, indemnify and hold harmless, the City, its officers and employees, against any claims, actions, damages, costs (including reasonable attorney fees), or other liabilities of any kind arising from any violation of the Requirements or of the Ordinance by me.

**DECLARATION OF COMPLIANCE
Equal Benefits Ordinance**

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct, and that I am authorized to bind the Contractor to the provisions of this Declaration.



Signature of Authorized Representative

~~04/22~~ 04/22/15

Date

William Williams

Print Name

owner

Title



**YOUR RIGHTS UNDER THE CITY OF SACRAMENTO'S
NON-DISCRIMINATION IN EMPLOYEE BENEFITS BY CITY CONTRACTORS
ORDINANCE**

On (date), your employer (the "Employer") entered into a contract with the City of Sacramento (the "City") for (contract details), and as a condition of that contract, agreed to abide by the requirements of the City's Non-Discrimination In Employee Benefits By City Contractors Ordinance (Sacramento City Code Section 3.54).

The Ordinance does not require the Employer to provide employee benefits. The Ordinance does require that if certain employee benefits are provided by the Employer, that those benefits be provided without discrimination between employees with spouses and employees with domestic partners, and without discrimination between the spouse or domestic partner of employees.

The Ordinance covers any employee working on the specific contract referenced above, but only for the period of time while those employees are actually working on this specific contract.

The included employee benefits are:

- Bereavement leave
- Disability, life and other types of insurance
- Family medical leave
- Health benefits
- Membership or membership discounts
- Moving expenses
- Pension and retirement benefits
- Vacation
- Travel benefits
- Any other benefits given to employees

(Employee Benefits does not include benefits that may be preempted by federal or state law.)

If you feel you have been discriminated or retaliated against by your employer in the terms and conditions of your application for employment, or in your employment, or in the application of these employee benefits, because of your status as an applicant or as an employee protected by the Ordinance, or because you reported a violation of the Ordinance, and after having exhausted all remedies with your employer,

You May . . .

- Submit a written complaint to the City of Sacramento, Contract Services Unit, containing the details of the alleged violation. The address is:

City of Sacramento
Contract Services Unit
915 I St., 2nd Floor
Sacramento, CA 95814

- Bring an action in the appropriate division of the Superior Court of the State of California against the Employer and obtain the following remedies:
 - Reinstatement, injunctive relief, compensatory damages and punitive damages
 - Reasonable attorney's fees and costs



**YOUR RIGHTS UNDER THE CITY OF SACRAMENTO'S
NON-DISCRIMINATION IN EMPLOYEE BENEFITS BY CITY CONTRACTORS
ORDINANCE**

If your employer provides employee benefits, they must be provided to those employees working on a City of Sacramento contract without discriminating between employees with spouses and employees with domestic partners.

The included employee benefits are:

- Bereavement leave
- Disability, life and other types of insurance
- Family medical leave
- Health benefits
- Membership or membership discounts
- Moving expenses
- Pension and retirement benefits
- Vacation
- Travel benefits
- Any other benefits given to employees

If you feel you have been discriminated against by your employer . . .

You May . . .

- o Submit a written complaint to the City of Sacramento, Contract Services Unit, containing the details of the alleged violation. The address is:

City of Sacramento
Contract Services Unit
915 I St., 2nd Floor
Sacramento, CA 95814
- o Bring an action in the appropriate division of the Superior Court of the State of California against the employer and obtain reinstatement, injunctive relief, compensatory damages, punitive damages and reasonable attorney's fees and costs.

Discrimination and Retaliation Prohibited.

If you feel you have been discriminated or retaliated against by your employer in the terms and conditions of your application for employment, or in your employment, because of your status as an applicant or as an employee protected by the Ordinance, or because you reported a violation of this Ordinance . . .

You May Also . . .

Submit a written complaint to the City of Sacramento, Contract Services Unit, at the same address, containing the details of the alleged violation.

B15190011002

BID PROPOSAL FORMS

PLEASE REMOVE AND
COMPLETE
THE FOLLOWING DOCUMENTS
AND
SUBMIT AS
THE BID PROPOSAL
PACKAGE

**CABRILLO POOL RENOVATION PROJECT REBID (L19111300)
B15190011002**

ADDENDUM #3

April 17, 2015

To all Potential Bidders:

Attached hereto are addenda items, which shall be incorporated into the Invitation for Bid for above noted project. These changes shall be considered as part of the original documents, as if they were originally provided therein, and as such shall be used as contractual documents. All other terms, conditions, and specifications of the Invitation for Bid remain unchanged. Bidders must acknowledge receipt of this addendum prior to the hour and date specified in the bid request, or as amended, by one of the following methods:

- (a) By acknowledging receipt, in the proposal response submitted; or
- (b) By separate letter which includes a reference to the Invitation for Bid and addendum number.

Failure to acknowledge receipt of this addendum in one of the above methods and cause acknowledgment to be received by the City Clerk Office at 915 I Street, Sacramento, CA 95814, prior to the hour and date specified in the Request for Proposal, **may result in rejection of your offer.** If by virtue of this addendum you decide to change a proposal already submitted, such change may be made by letter, provided such letter makes reference to the Invitation for Bid number and this addendum, and is received prior to the opening hour and date specified.

For any questions related to this Addendum, contact me at thopper@cityofsacramento.org or at 916.808.8173 for contractual questions. For technical questions contact the project manager, Yadi Kavakebi, at ykavabeki@cityofsacramento.org or at 916.808.8432.

Very truly yours,



Tim Hopper
Contracts & Compliance Specialist

Bid Number: B15190011002

ADDENDUM 3 DATE: April 17, 2015

CABRILLO POOL RENOVATION PROJECT REBID (L19111300)

Item #1 –SIGN-IN SHEET:

Attached is sign-in sheet from mandatory pre-bid meeting today at Cabrillo Pool.

THE ORIGINAL BID DUE DATE OF APRIL 22, 2015 REMAINS THE SAME.

This addendum is issued in conformance with the original plans and specifications. Unchanged portions of the plans and special provisions remain in effect.

CABRILLO POOL RENOVATION PROJECT BEBID (L19111300)

MANDATORY PRE-SUBMITTAL MEETING SIGN-IN SHEET FOR APRIL 17, 2015

NAME	COMPANY	PHONE	EMAIL ADDRESS
TIM HOPPER	CITY OF SACRAMENTO	808-8173	thopper@cityofsacramento.org
KIRSTEN WISE	CITY OF SACRAMENTO	808-4011	kwise@cityofsacramento.org
JOSETTE REINA	CITY OF SACRAMENTO	808-1956	jreina@cityofsacramento.org
JILL NUNES	CITY OF SACRAMENTO	808-6095	jnunes@cityofsacramento.org
BILL JACKSON	CITY OF SACRAMENTO		wjackson@cityofsacramento.org
YADI KAVAKEBI	CITY OF SACRAMENTO	337-4660	ykavakebi@cityofsacramento.org
Bob Kemble	city of Rancho Cordova	812-4483	Cathy P @ STS corp. biz
STEVEN HUME	WATERWORKS INDUST.	707-837-7900	MAHHS@WATERWORKSINDUSTRIES.COM
Ron Classon	M.A. Steiner Const	910-805-0458	RONC@MASteinerConst.com
Dave Walter	Advanced Pool Coatings	916-773-1883	dave@advancedpoolcoatings.com
Jeff Leaird	Tricon Aquatics	916-638-9866	jleaird@triconconstructioninc.com
Ramiro Medina	American Construction Enginr	559-217-2017	RamiroMedinaBuilder@gmail.com
Laura Meza	TCC Construction	559-940-1350	laura.m021@gmail.com

**CABRILLO POOL RENOVATION PROJECT REBID (L19111300)
B15190011002**

ADDENDUM #2

April 15, 2015

To all Potential Bidders:

Attached hereto are addenda items, which shall be incorporated into the Invitation for Bid for above noted project. These changes shall be considered as part of the original documents, as if they were originally provided therein, and as such shall be used as contractual documents. All other terms, conditions, and specifications of the Invitation for Bid remain unchanged. Bidders must acknowledge receipt of this addendum prior to the hour and date specified in the bid request, or as amended, by one of the following methods:

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For any questions related to this Addendum, contact me at thopper@cityofsacramento.org or at 916.808.8173 for contractual questions. For technical questions contact the project manager, Yadi Kavakebi, at ykavabeki@cityofsacramento.org or at 916.808.8432.

Very truly yours,



Tim Hopper
Contracts & Compliance Specialist

ADDENDUM 2 DATE: April 15, 2015

CABRILLO POOL RENOVATION PROJECT REBID (L19111300)

Item #1 –Specifications:

A. Permit costs:

The City permit fee will be paid by the City. Contractor is ONLY responsible for the County Health Department fee, submittal of any documents and any other requirements in order to obtain the permit.

B. Delete item B, under SECTION 01048 ELECTRONIC DRAWINGS, 1.02 SUMMARY. The Architect's fee of \$250 does not apply to this project.

Item #2 –Drawings:

A. This is a clarification that contractor is responsible to evaluate the existing condition, coordinate the requirements, select a proper size drains and ultimately provide and install all items related to the NEW DRAINS as shown on Detail 3 sheet SP1.1. Contractor shall provide/submit shop drawings, cut-sheet and all necessary documents to the City for approval.

Item #3- Previous addendums on original bid

A. Previous addendums are incorporated into this rebid. They are attached.

THE ORIGINAL BID DUE DATE OF APRIL 22, 2015 REMAINS THE SAME.

This addendum is issued in conformance with the original plans and specifications. Unchanged portions of the plans and special provisions remain in effect.

**CABRILLO POOL RENOVATION PROJECT (L19111300)
B15190011001**

ADDENDUM #1

March 13, 2015

To all Potential Bidders:

Attached hereto are addenda items, which shall be incorporated into the Invitation for Bid for above noted project. These changes shall be considered as part of the original documents, as if they were originally provided therein, and as such shall be used as contractual documents. All other terms, conditions, and specifications of the Invitation for Bid remain unchanged. Bidders must acknowledge receipt of this addendum prior to the hour and date specified in the bid request, or as amended, by one of the following methods:

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Very truly yours,



Tim Hopper
Contracts & Compliance Specialist

CABRILLO POOL RENOVATION PROJECT (L19111300)

Item #1 –Specifications:

- A. Underlined paragraph shall be included in "SCOPE OF WORK" of the listed section of specification :

"Refer to the drawings for more technical specs. In case of any discrepancies the most stringent requirements either in drawings and or specs shall apply to this job. shall apply to the following section of specification"

- a. SECTION 03101 SWIMING POOL CONCETE FORMWORK
- b. SECTION 03200 CONCRETE REINFORCEMENT
- c. SECTION 03201 SWIMING POOL CONCETE REINFORCEMEN
- d. SECTION 03301 SWIMMING POOL CAST-IN-PLACE
- e. SECTION 03361 SWIMING POOL WET MIX SHOTCRETE

- B. Following section to be added and incorporated into the item 3.5, APPLICATION of SECTION 09882 FIBERGLASS.

F. Application of Coating

A. General Description of Coating.

1. The coating/surface/liner specified shall consist of a three-coat, multi-component system of compatible materials including primers, surface sealers, polyester resins, pre-disbursed fibers, and top sealer/finish (chemically resistant, traction glaze) as described herein.

B. Application to Pool Surface.

1. All resin and catalyst shall be applied with airless spraying equipment that mixes materials internally prior to exiting the equipment nozzles. External fiberglass "chop" is introduced into the resin/catalyst stream as it exits the gun and well before coming into contact with pool surfaces. The internal material mixing assures that the resin/catalyst mixture conforms to manufacturers' specifications. Use of equipment which mixes resin and catalyst externally (either gun applied or hand lay-up method) is expressly prohibited.

2. Application of material shall be performed in four coats, referred to as coats A, B, C, and D.

2a. Coat A: A uniformly sprayed, brushed or rolled application of a surface seal coat,

designed to seal and penetrate all surface "pores" prior to application of the fiberglass.

2b. After coat A has cured, the surface shall be inspected to insure proper coverage and that sealing has been obtained.

2c. Coat B: The contractor shall apply a uniform coat of fiberglass at thickness of 80 to 120 mils consisting of a ratio of approximately 30% fiberglass gun roving to 70% resin.

2d. Coat C: After roll-out of coat B is performed, the contractor shall apply an *Advanced-Glass* resin overspray to insure proper "wet out" of fibers and to provide for proper coverage of resin over fibers.

2e. All glass below the tile or coping or around other retained tile detail, and around lights and fittings, shall be trimmed neatly as required. The niche (slot) around these fittings shall then be filled with a compatible resin paste.

2f. The entire pool surface shall be inspected for smoothness and integrity. All fiberglass "hairs," sharp edges, steps and corners shall be sanded or otherwise prepared for final coat.

2g. The contractor shall then sweep the pool thoroughly and insure any preparation for lane line target tile work is complete.

2h. Coat D: The contractor shall apply 15 mils (+/-5) of *Advanced-Glass* finish coat with minimum of 2% wax, using a spray technique, resulting in a texture providing adequate and safe traction properties.

2i. In accordance with the option chosen by the owner for lane lines, targets, and other underwater tile features (see section 1.01, D), the contractor shall perform the application using the manufacturer's approved technique.

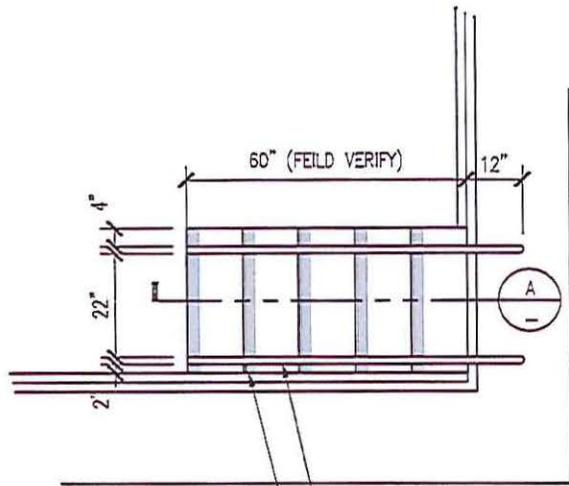
Item #2 -Drawings:

A. See the attached "EXHIBIT A" and "EXHIBIT B". for stair details and painted lane markers.

Item #3- Mandatory Pre-bid sign-in sheet (attached).

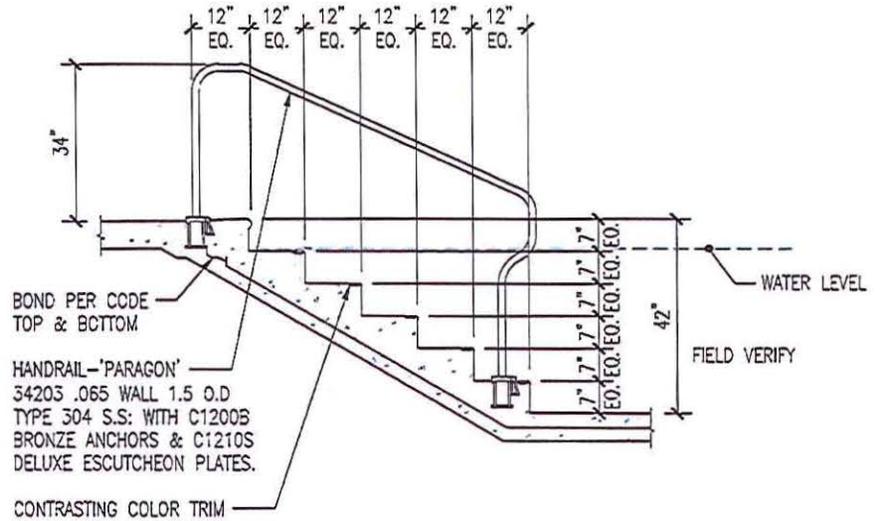
THE ORIGINAL BID DUE DATE OF MARCH 25, 2015 REMAINS THE SAME.

This addendum is issued in conformance with the original plans and specifications. Unchanged portions of the plans and special provisions remain in effect.



HANDRAIL-"PARAGON"
 34203 .065 WALL 1.5 O.D
 TYPE 304 S.S. WITH C1200B
 BRONZE ANCHORS & C1210S
 DELUXE ESCUTCHEON PLATES.
 CONTRASTING COLOR TRIM

1 ENLARGED FLOOR PLAN
 SCALE: N/A



BOND PER CODE
 TOP & BOTTOM
 HANDRAIL-"PARAGON"
 34203 .065 WALL 1.5 O.D
 TYPE 304 S.S. WITH C1200B
 BRONZE ANCHORS & C1210S
 DELUXE ESCUTCHEON PLATES.
 CONTRASTING COLOR TRIM

A SECTION
 SCALE: N/A



Project Name & Address:
CABRILLO PARK
 ADA STAIR

No.	Comments / Remarks	Date
▲		
▲		
▲		

Sheet Type / Description:
STAIR DETAIL
 EXHIBIT A

Designed By:	Work Order No:	Sheet No:
Drawn By:	Issue Date:	
Reviewed By:	Sheet Scale:	OF

CABRILLO POOL RENOVATION PROJECT (L19111300)

MANDATORY PRE-SUBMITTAL MEETING SIGN-IN SHEET FOR MARCH 13, 2015

NAME	COMPANY	PHONE	EMAIL ADDRESS
Brian Carter	B.G.V. Int.	559-288-4800	bgvusa@gmail.com
Ramiro Medina	American Construction Engineers	559-217-2017	RamiroMedinabuilder@gmail.com
Frank Fernandez	FCF GENERAL CONT.	916-532-7978	frank.fernandez@fcfac.com
Chris Robertson	Knorr Systems	916-893-3132	ChrisR@KnorrSystems.COM
ANNA SMITH	M.A. STEINER CONST. INC.	916-988-6300	ANNAS@MASTEINERCONST.COM
Kon Claxson	M.A. Steiner Const	916 805-0151	KONC@MASTEINERCONST
Dave Walter	Advanced Pool Coatings	916-773-1883	dave@advancedpoolcoatings.com
Jon Peel	TRICON AQUATICS	(916) 638-9866	TRCID@TRIKON AQUATICS.COM
CORBY STRACK	Carpeters Local 46	916 417-6160	CSTRACK@NLRCL-ORG
Bill Williams	American Construction Engineer	559-469-1119	43@FIRE@SMALL.COM
Tim Hopper	City Contracts		
Kirsten Wise	City Labor Compliance		
Yuki Kavakibi	City Architect		
Kate Kramer	City Inspector		
Maria Lopez	RSC General Engineer	209-518-9166	rscgeneralengineer@att.net

**CABRILLO POOL RENOVATION PROJECT (L19111300)
B15190011001**

ADDENDUM #2

March 18, 2015

To all Potential Bidders:

Attached hereto are addenda items, which shall be incorporated into the Invitation for Bid for above noted project. These changes shall be considered as part of the original documents, as if they were originally provided therein, and as such shall be used as contractual documents. All other terms, conditions, and specifications of the Invitation for Bid remain unchanged. Bidders must acknowledge receipt of this addendum prior to the hour and date specified in the bid request, or as amended, by one of the following methods:

- (a) By acknowledging receipt, in the proposal response submitted; or
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For any questions related to this Addendum, contact me at thopper@cityofsacramento.org or at 916.808.8173 for contractual questions. For technical questions contact the project manager, Yadi Kavakebi, at ykavabeki@cityofsacramento.org or at 916.808.8432.

Very truly yours,



Tim Hopper
Contracts & Compliance Specialist

ADDENDUM 2 DATE: March 18, 2015

CABRILLO POOL RENOVATION PROJECT (L19111300)

Item #1 –Specifications:

A. Revise, SECTION 09882, Fiberglass specs, item 1.1 Description as following:

1.1 DESCRIPTION

A. Work Included:

1. Provide all labor, materials, and equipment necessary to install fiberglass coating as indicated on the Drawings and herein specified.
2. Replace and remove ALL existing fiberglass surfaces, including but not limited to the pool gutter. Prepare, repair and clean new and existing concrete surface per Fiberglass manufacturer.
3. Conduct a walk through inspection with manufacturer's rep and City representative to examine the surfaces for acceptance and certification of the pool surfaces before applying the fiberglass material.

B. Contractor shall be responsible to provide drain piping diagram and other information/drawings as needed to secure county health and other needed permits

Item #2 –Drawings:

A. See the attached "EXHIBIT B-1" for general notes, cup anchors, safety line anchors, separation lane location, non-glazed tile safety marker location, wall inlet fittings, relief valves specs and all other notes that apply to this project.

B. Drawing SP1.0, make the following changes:

1. Change spacing of drains to 6'-0".
2. Modify note"(N) PIPING NOT TO EXCEED 6FPS BY OTHERS " to read as following:
 - a. *Contractor to provide (N) 8" piping (not exceed 6FPS) including labor material to finish the job.*

THE ORIGINAL BID DUE DATE OF MARCH 25, 2015 REMAINS THE SAME.

This addendum is issued in conformance with the original plans and specifications. Unchanged portions of the plans and special provisions remain in effect.

**CABRILLO POOL RENOVATION PROJECT (L19111300)
B15190011001**

ADDENDUM #3

March 20, 2015

To all Potential Bidders:

Attached hereto are addenda items, which shall be incorporated into the Invitation for Bid for above noted project. These changes shall be considered as part of the original documents, as if they were originally provided therein, and as such shall be used as contractual documents. All other terms, conditions, and specifications of the Invitation for Bid remain unchanged. Bidders must acknowledge receipt of this addendum prior to the hour and date specified in the bid request, or as amended, by one of the following methods:

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Very truly yours,



Tim Hopper
Contracts & Compliance Specialist

Bid Number: B15190011001

ADDENDUM 3 DATE: March 20, 2015

CABRILLO POOL RENOVATION PROJECT (L19111300)

Item #1 –Technical Specifications:

Section 09882- Swimming Pool Fiberglass Coating.

Contractor to provide proof of experience in fiberglass coating as cited in Section 1.3 QUALITY ASSURANCE (attached).

THE ORIGINAL BID DUE DATE OF MARCH 25, 2015 REMAINS THE SAME.

This addendum is issued in conformance with the original plans and specifications. Unchanged portions of the plans and special provisions remain in effect.

CITY OF SACRAMENTO
CABRILLO POOL MAINTENACE UPGRADE

SECTION 09882

SWIMMING POOL FIBERGLASS COATING

PART1-GENERAL

1.1 GENERAL CONDITIONS

The requirements of the "General Conditions of the contract" and of Division 1, "General Requirements," shall apply to all work of this Section with the same force and effect as though repeated in full herein.

1.2 DESCRIPTION

A. Work Included:

Provide all labor, materials, and equipment necessary to install fiberglass coating as indicated on the "WP" Drawings and herein specified.

1.3 QUALITY ASSURANCE

A. All Work of this Section shall be performed by the swimming pool contractor/subcontractor. .

B. Qualifications of Workers:

1. The contractor/subcontractor for this portion of the Work shall have been successfully engaged in the business of fiberglass coating for at least five (5) years immediately prior to commencement of this work, and shall demonstrate to the approval of the Owner's Representative that its record of workmanship is satisfactory.
2. For actual construction operations, use only thoroughly trained and experienced workers completely familiar with the materials and methods specified.
3. Provide at least one person who shall be present at all times during the execution of this portion of the Work and who shall be thoroughly familiar with the materials and methods specified, and who shall direct all Work performed under this Section.

1.4 SUBMITTALS AND SUBSTITUTIONS

A. Provide submittals and substitutions in conformance with requirements of Section 01300.

1.5 PRODUCT HANDLING

**CABRILLO POOL RENOVATION PROJECT REBID (L19111300)
B15190011002**

ADDENDUM #1

April 6, 2015

To all Potential Bidders:

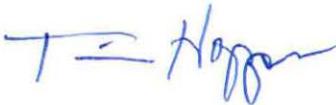
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Very truly yours,



Tim Hopper
Contracts & Compliance Specialist

Bid Number: B15190011002

ADDENDUM 1 DATE: APRIL 6, 2015

CABRILLO POOL RENOVATION PROJECT REBID (L19111300)

Item #1 –

MANDATORY PRE-BID MEETING: FRIDAY, APRIL 17, 2015 AT 10:00 AM. 1648 65th Ave.,
between Florin Rd and Freeport Blvd, Sacramento, CA.

THE ORIGINAL BID DUE DATE OF APRIL 22, 2015 REMAINS THE SAME.

This addendum is issued in conformance with the original plans and specifications.
Unchanged portions of the plans and special provisions remain in effect.

American Const. Engineers

CITY OF SACRAMENTO
Department of Parks & Recreation

Bid Proposal

Page 1 of 3

TO THE HONORABLE CITY COUNCIL
SACRAMENTO, CALIFORNIA:

In compliance with the Contract Documents, the undersigned hereby proposes to furnish all required labor, materials, supervision, transportation, equipment, services, taxes and incidentals required for:

CABRILLO POOL RENOVATION PROJECT REBID (L19111300-1)

in the City and County of Sacramento, California.

The Work is to be done in strict conformity with the Contract Documents now on file in the office of the City Clerk, for the following BID ITEMS:

- A.) Lump Sum Items - Cost of permitting, constructing, mobilization, demobilization, overhead, insurance and other appropriate costs for the installation of work identified on the attached drawings and specifications with Contractor supplied equipment and appurtenances as shown on the contract documents for the lump sum of:

Two hundred eighty two thousand three hundred twenty four & 00/100 dollars Dollars (\$ 282,324).

B. ALTERNATES:

The Contractor shall price the following Alternative(s), stating the amount to be added or deducted from the Base Bid Proposal. The City reserves the right to award the Agreement on the basis of the Base Bid Proposal alone, or with a combination of one or more of the Alternative(s). Failure on the part of any Contractor to list the Alternative(s) may be cause for rejection of the Bid Proposal.

Each Alternate shall conform exactly to the Plans and Specifications. See the drawings and specifications for the description of the Alternates.

Unit Price Items – Bid Alternates-REVISE AND REMOVE THE EXISTING EXPANSION JOINT AS SHOWN ON THE DRAWINGS.

1.) Twelve thousand & 00/100 Dollars (\$ 12,000 -).

C. TOTAL BID (BASE BID AND ALTERNATE):

Two hundred ninety four thousand three hundred twenty four & 00/100 dollars Dollars (\$ 294,324. -).

DETERMINATION OF LOW BIDDER

SPECIAL CONDITION: THE DETERMINATION OF THE LOW BIDDER WILL BE BASED ON THE BASE BID AND ALL ADDITIVE ALTERNATES, IF ANY. HOWEVER, THE CONTRACT AWARD MAY NOT INCLUDE ALL OF THE ADDITIVE ALTERNATIVES. THE CITY RESERVES THE RIGHT

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TO SELECT WHICH ADDITIVE ALTERNATIVES, IF ANY, TO INCLUDE IN THE CONTRACT AWARD IN ADDITION TO THE BASE BID WORK.

FOR THIS PROJECT:

The City of Sacramento's Local Business Development program establishes an annual local business enterprise (LBE) participation goal for City contracts, and authorizes City departments to require minimum LBE participation levels in individual contracts. Under City Code section 3.60.270, all bidding contractors must meet or exceed the minimum LBE participation requirement specified in the contract's bid specifications to qualify as a responsive bidder.

If awarded the Agreement, the undersigned agrees to sign said Agreement and furnish the necessary surety bonds and insurance certificates within ten (10) days after receipt of the notice of award of

Project to be completed in Sixty (60) working days.

Agreement, and to begin work within fifteen (15) days after receipt of the Notice to Proceed by the City.

It is understood that this Bid Proposal is based upon completion of the Work within the time set forth in the schedule section for each library location.

The undersigned has examined the location of the proposed Work, the local conditions at the place where the Work is to be done, is familiar with the Contract Documents and is familiar and expressly agrees to the liquidated damages provision of the Contract Documents.

The undersigned has checked carefully all of the foregoing figures and understands that the City of Sacramento will not be responsible for any errors or omissions on the part of the undersigned in making up this Bid Proposal.

Enclosed is Bid Proposal Guarantee, as required, consisting of a bidder's bond or other acceptable security for not less than ten percent (10 %) of the amount Bid Proposal.

The undersigned agrees that all addenda received and acknowledged herein shall become a part of and be included in this Bid Proposal. This Bid Proposal includes the following addenda:

Add. #	<u>1</u>	DATE	<u>4/06/15</u>
Add. #	<u>2</u>	DATE	<u>04/15/15</u>
Add. #	<u>3</u>	DATE	<u>04/17/15</u>
Add. #	_____	DATE	_____

NOTE: State whether your concern is a corporation, a co-partnership, private individual, or individuals doing business under a firm name.

private individual.

If the Bidder is a corporation, the Bid Proposal must be executed in the name of the corporation and must be signed by a duly authorized officer of the corporation.

If the Bidder is a partnership, the Bid Proposal must be executed in the name of the partnership and one of the partners must subscribe their signature thereto as the authorized representative of the partnership.

AMOUNT OF BID PROPOSAL GUARANTEE ENCLOSED:

(\$ 10%) not less than ten percent (10%) of amount Bid Proposal

FOR CITY USE ONLY

BID BOND SECURITY

- Properly Signed
- Improperly Signed
- Not Included
- Not Required

TYPE OF DEPOSIT

- Bid Bond
- Cashier/Certified Check
- Other _____

Initial: [Signature]

CONTRACTOR:

By [Signature]

Title owner

(Signature)

Firm American Construction Engineers

Address 26375 Watts Valley Rd, Tallhause, CA 93667

Telephone No. 559-486-2143

Email: AMECON559@AOL.COM

Date 04/22/15

Contractor's License No. 294160 Type A & B Expiration Date 03/31/15

Tax I.D. Nos. - Fed. 75-3261519 State 037-2720-3

City of Sacramento Business Operation Tax Certificate No. _____

(Certificate Number will be received when building permit is issued)

For any person or entity who submits a Bid Proposal, all such information shall be submitted under penalty of perjury.

PLEASE PRINT CLEARLY AS BID RESULTS WILL BE SENT VIA EMAIL

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LOCAL BUSINESS ENTERPRISE (LBE) PARTICIPATION PROGRAM

NOTE: Proposers must provide responses to the following items. Failure to provide a response to each of the items in this section may be grounds for rejection of the proposal.

1. LBE FIVE PERCENT (5%) PARTICIPATION

On April 3, 2012, the Sacramento City Council adopted a Local Business Enterprise (LBE) Preference Program to provide enhanced opportunities for the participation of local business enterprises (LBEs) in the City's contracting and procurement activities. On November 19, 2013, City Council increased the LBE preference and authorized City departments to require minimum LBE participation levels in individual contracts. Under City Code section 3.60.270, when the bid specifications for a City contract establish a minimum participation level for LBEs, no bidder on the contract shall be considered responsive unless its bid meets the minimum LBE participation level required by the bid specifications.

The City has established a minimum 5% participation level for LBEs on this contract. Pursuant to City Code Section 3.60.270, no bidder on this contract shall be considered responsive unless its bid meets or exceeds this minimum participation level.

Local Business Enterprise means a business enterprise, including but not limited to, a sole proprietorship, partnership, limited liability company, corporation, or other business entity that has a legitimate business presence in the city or unincorporated county of Sacramento. Evidence of legitimate business presence in the city or unincorporated county of Sacramento shall include:

1. Having a current City of Sacramento Business Operation Tax or County of Sacramento Business License; and
2. Having either of the following types of offices or workspace operating legally within the city or unincorporated county of Sacramento:
 - a. The LBE's principle business office or workspace; or
 - b. The LBE's regional, branch or satellite office with at least one full time employee located in the city or unincorporated county of Sacramento.

A. LOCAL BUSINESS ENTERPRISE (LBE)

Is the firm submitting the bid qualified as a local business enterprise? Check the appropriate box below:

- YES - the firm submitting the bid is qualified as a local business enterprise.
- NO - the firm submitting the bid is not qualified as a local business enterprise.

If the response to the above is YES, provide the City of Sacramento Business Operations Tax Certificate Number and/or County of Sacramento Business License Number:

If the response to the above is YES, provide a current copy of the City of Sacramento Business Operations Tax Certificate and/or County of Sacramento Business License.

If the response to the above is YES, provide business office or workspace address*:

* Address must be a physical address for the basis of location, this excludes P.O. Box addresses.

**LOCAL BUSINESS ENTERPRISE (LBE)
PARTICIPATION REQUIREMENTS**
(City Contracts no Federal Funds Used)

I. LBE PARTICIPATION REQUIREMENT

On April 3, 2012, the Sacramento City Council adopted a Local Business Enterprise (LBE) Preference Program to provide enhanced opportunities for the participation of local business enterprises (LBEs) in the City's contracting and procurement activities. On November 19, 2013, City Council increased the LBE preference percentage and authorized City departments to require minimum LBE participation levels in specific contracts. Under City Code section 3.60.270, when the bid specifications for a City contract establish a minimum participation level for LBEs, no bidder on the contract shall be considered responsive unless its bid meets the minimum LBE participation level required by the bid specifications.

The City has established a **minimum 5% participation level for LBEs on this contract**. Pursuant to City Code Section 3.60.270, no bidder on this contract shall be considered responsive unless its bid meets or exceeds this minimum participation level.

Bidders shall submit proof to the City demonstrating that the business and each subcontractor, trucker, material supplier, or other business entity listed on the forms submitted are in compliance with all applicable laws relating to licensing and are not delinquent in payment of any City of Sacramento or County of Sacramento taxes, permits, or fees. Failure to submit the required LBE information may be grounds for finding the bid non-responsive.

II. LBE QUALIFICATION

- A. A LBE designated in the bid must be qualified as a LBE prior to the time set for submission of bids.
- B. Local Business Enterprise means a business enterprise, including but not limited to, a sole proprietorship, partnership, limited liability company, corporation, or other business entity that has a legitimate business presence in the city or unincorporated county of Sacramento. Proof of legitimate business presence in the city or unincorporated county of Sacramento shall include:
 - 1. Having a current City of Sacramento Business Operation Tax or County of Sacramento Business License for at least twelve (12) consecutive months prior to submission of bid; and
 - 2. Having either of the following types of offices or workspace operating legally within the city or unincorporated county of Sacramento for at least twelve (12) consecutive months prior to submission of bid:
 - a. The LBE's principle business office or workspace; or
 - b. The LBE's regional, branch or satellite office with at least one full time employee located in the city or unincorporated county of Sacramento.

- C. A LBE must provide a physical address for the basis of location. This excludes P.O. Box addresses.
- D. A LBE must provide a current copy of the City of Sacramento Business Operations Tax Certificate or County of Sacramento Business License.

III. DETERMINATION OF LBE PARTICIPATION LEVEL

- A. LBE Participation: The percentage of LBE participation is determined based on the dollar value of the work to be performed or supplies to be furnished by certified LBEs designated in the bidder's Subcontractor and LBE Participation Verification Form, relative to the total dollar amount of the bid.
- B. Participation Credit: To receive credit for participation:(1) an LBE subcontractor must be responsible for the execution of a distinct element of the work, must possess any license or certification required for the work, and must actually perform, manage, or supervise the work without subcontracting or otherwise shifting any portion of the work to another subcontractor; and (2) an LBE supplier must furnish materials, equipment, or supplies that the supplier sells as a recurring, although not necessarily primary, part of its business, and that are necessary for performance of the work.
- C. Suppliers: Credit for an LBE supplier of materials, equipment, or supplies is counted as one hundred (100) percent of the amount paid to the supplier for the material, equipment, or supplies. To receive this credit, LBE suppliers must be listed on the bidder's Subcontractor and LBE Participation Verification Form.
- D. Subcontractors (including truckers): To receive credit for an LBE subcontractor, the subcontractor must be listed on the bidder's Subcontractor and LBE Participation Verification Form.
 - Truckers: Credit for an LBE trucker is counted as one hundred (100) percent of the amount paid to the trucker for trucking services, not including any amount paid to the trucker for the cost of any materials, equipment, or supplies being transported by the trucker.

IV. LBE REQUIREMENTS FOR CONTRACTOR

- A. LBE Records: The Contractor shall maintain records of all subcontracts with verified LBE subcontractors and records of materials purchased from verified LBE suppliers for one (1) year after receiving final payment from the City. Such records shall show the name and business address of each LBE subcontractor or supplier and the total dollar amount actually paid each LBE subcontractor or supplier.

Not later than 30 days after completion of the work performed under the contract, a summary of these records shall be prepared, certified correct by the Contractor's authorized representative and furnished to the City. The Contractor shall provide such other information, records, reports, certifications or other documents as may

be required by City, to determine compliance with any provision of the LBE program or these specifications.

B. Performance of LBE Subcontractors and Suppliers: The LBEs listed by the Contractor shall perform the work and supply the materials, equipment, and supplies for which they are listed unless the Contractor has received prior written authorization from the City to perform the work with other forces or to obtain the material, equipment, or supplies from other sources. Reasons for requesting such authorization would include:

1. The listed LBE fails to execute a written contract based upon the general terms, conditions, plans, and specifications for the project.
2. The listed LBE becomes bankrupt or insolvent.
3. The listed LBE subcontractor fails to meet the bond requirements of the Contractor.
4. The work performed or the materials/equipment/supplies provided by the listed LBE are unsatisfactory or are not in accordance with the plans and specifications, or the listed LBE fails to perform its contractual obligations.
5. It would be in the best interest of the City.

C. Subcontractor Substitution: No substitution of an LBE subcontractor shall be made at any time without compliance with the Subletting and Subcontracting Fair Practices Act. If an LBE subcontractor is unable to perform successfully and is to be replaced, the Contractor shall make reasonable efforts to replace the original LBE subcontractor with another verified LBE subcontractor. The new LBE subcontractor must be verified at the time of substitution.

D. Reporting and Utilization Requirements and Sanctions: Failure to provide specific information, records, reports, certifications, or any other documents required for compliance with these specifications, or failure to utilize one or more LBEs in substantial compliance with the LBE utilization indicated in the Contractor's bid (unless otherwise authorized by City as provided herein, or when such failure results from changes to the work approved by the City), shall be considered a breach of the contract, and a deduction may be made from the contract amount. The deduction shall be not more than ten (10) percent of the value of the work or materials/equipment/supplies that the subject LBE(s) were listed to perform/provide in the Contractor's bid, and shall be deducted from any payment due to the Contractor. This is in addition to any deduction that may be made under any other provision of the contract, the Sacramento City Code, or State law.

E. Hearing and Review of Division Manager Decision: Prior to making a deduction pursuant to Section IV (D), above, the City shall provide written notice of the proposed deduction to the Contractor, and the Contractor may, not later than five (5) working days after receiving such notice, provide a written request to City for a hearing to contest the proposed deduction. Upon receipt of a timely written

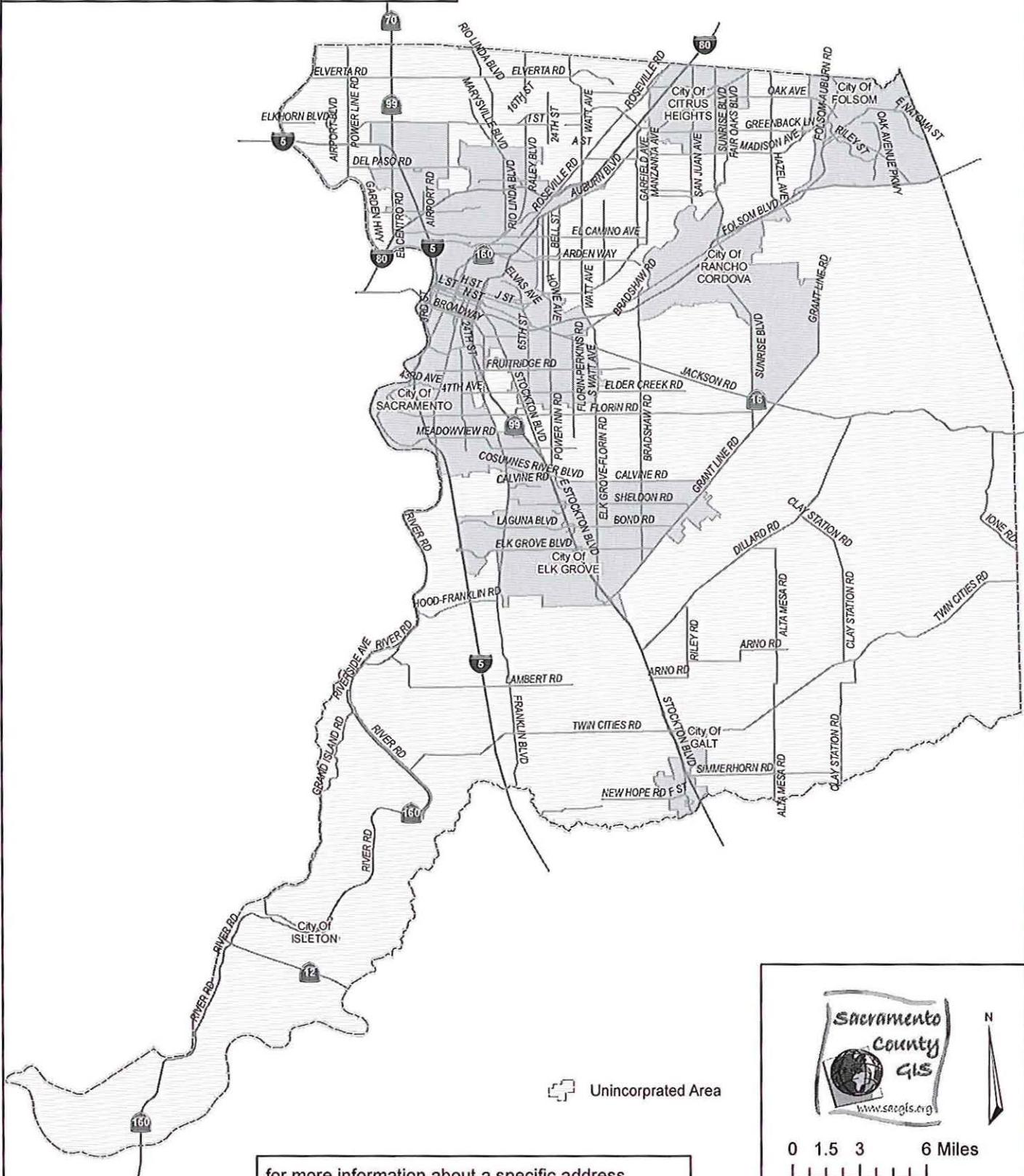
request from the Contractor, the City shall schedule a hearing before the Division Manager (as defined in the City's Standard Specifications for Public Construction), and written notice of the date, time and location of the hearing shall be provided to the Contractor not less than five (5) working days prior to the date of the hearing. The hearing shall be conducted in the manner specified in Section 4-8 of the Standard Specifications, and the Division Manager shall prepare and forward to the Contractor a written decision as soon as practicable after the hearing. The Division Manager's decision shall be subject to review in accordance with the provisions of Section 4-9 of the Standard Specifications. Failure to request such review in compliance with the requirements set forth in Section 4-9 shall constitute acceptance of the Division Manager's decision by the Contractor.

The written notices and requests described above shall be provided by registered or certified mail (return receipt requested), by telecopy, by personal delivery, or by any other method that provides reliable evidence of the date of receipt. Written notice provided by telecopy shall be deemed received on the date that it is transmitted and transmission is confirmed by the transmitting machine. Written notice provided by personal delivery shall be deemed received on the date of delivery.

V. DEFINITIONS

- A. Local Business Enterprise (LBE): A business enterprise, including but not limited to, a sole proprietorship, partnership, limited liability company, corporation, or any other business entity that has a legitimate business presence in the city or unincorporated county of Sacramento.
- B. Contractor: The sole proprietorship, partnership, limited liability company, corporation, or any other business entity entering into a contract with the City of Sacramento.
- C. Subcontractor: The sole proprietorship, partnership, limited liability company, corporation, or other business entity entering into a contract with the prime contractor to perform a portion of the work.
- D. Supplier: The sole proprietorship, partnership, limited liability company, corporation, or other business entity to provide materials, equipment, or supplies necessary for performance of the work.
- E. Proposal: Any response to a City solicitation for Proposals or Qualifications.
- F. Bid: Any response to a City solicitation for bids.

UNINCORPORATED AREAS



for more information about a specific address
visit our Assessor Parcel Viewer at www.sacgis.org

0 1.5 3 6 Miles

Doc Date: December, 2010

KNOW ALL MEN BY THESE PRESENTS,

That we, American Construction Engineers

as Principal, and Contractors Bonding and Insurance Company

a corporation duly organized under the laws of the State of Illinois and duly licensed to become sole surety on bonds required or authorized by the State of California, as Surety, are held and firmly bound unto the City of Sacramento, hereinafter called the City, in the penal sum of ten percent (10%) of the (BASE OR LUMP SUM) Proposal of the Principal above-named, or other amount as set forth in the Invitation to Bidders, submitted by said Principal to the City for the Work described below, for the payment of which sum in lawful money of the United States, well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents:

THE CONDITION OF THIS OBLIGATION IS SUCH

That whereas the Principal has submitted the above-mentioned Proposal to the City, for which Proposals are to be opened at the Department of City Clerk, City of Sacramento, located at 915 I Street, Historic City Hall, 2nd Floor Hearing Room, Sacramento, CA 95814 up to the hour of 2:00 p.m. on APRIL 22, 2015 for the Work specifically described as follows:

GABRILLO POOL RENOVATION PROJECT REBID (L19111300-1)

NOW, THEREFORE, if the aforesaid Principal is awarded the Contract and within the time and manner required under the Contract Documents, enters into a written Contract, in the prescribed form, in accordance with the Proposal, and files two (2) bonds with the City, one to guarantee faithful performance and the other to guarantee payment for labor and materials, and files the required insurance policies with the City, all as required by the Contract Documents or by law, then the obligation shall be null and void; otherwise it shall be and remain in full force and effect.

In the event suit is brought upon this bond by the Obligee and judgment is recovered, the Surety shall pay all costs incurred by the Obligee in such suit, including a reasonable attorney's fee to be fixed by the court, which sums shall be additional to the principal amount of this bond.

IN WITNESS WHEREOF We have hereunto set our hands and seal this 2nd
day of April 2015

American Construction Engineers

By [Signature] (Contractor) (Seal)

Title OWNER

Contractors Bonding and Insurance Company

By [Signature] (Surety) (Seal)

Title Attorney-in-Fact

Agent Name and Address Alliant Insurance Services, Inc.

9 E River Park Place East, Suite 310, Fresno, CA 93729

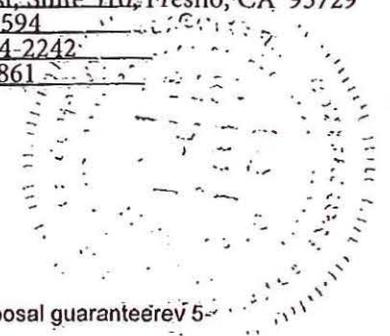
Agent Phone # 559-374-3594

Surety Phone # 1-800-274-2242

California License # 0C36861

ORIGINAL APPROVED AS TO FORM:

City Attorney



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

Civil Code § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
) ss
County of Fresno)

On 4/2/2015, before me, Bonnie Gonzalez, Notary Public, personally appeared Cody Lyman, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



(Seal)

Signature: Bonnie Gonzalez
Bonnie Gonzalez, Notary Public



9025 N. Lindbergh Dr. | Peoria, IL 61615
Phone: (800)645-2402 | Fax: (309)689-2036

POWER OF ATTORNEY

RLI Insurance Company Contractors Bonding and Insurance Company

Know All Men by These Presents:

That this Power of Attorney is not valid or in effect unless attached to the bond which it authorizes executed, but may be detached by the approving officer if desired.

That this Power of Attorney may be effective and given to either or both of **RLI Insurance Company** and **Contractors Bonding and Insurance Company**, required for the applicable bond.

That **RLI Insurance Company** and/or **Contractors Bonding and Insurance Company**, each Illinois corporations (as applicable), each authorized and licensed to do business in all states and the District of Columbia do hereby make, constitute and appoint:

Steven P. Edward, Cody Lyman, Lyn Genito, Bonnie Gonzalez, jointly or severally

in the City of Fresno, State of California, as Attorney in Fact, with full power and authority hereby conferred upon him/her to sign, execute, acknowledge and deliver for and on its behalf as Surety, in general, any and all bonds, undertakings, and recognizances in an amount not to exceed Ten Million Dollars (\$10,000,000.00) for any single obligation.

The acknowledgment and execution of such bond by the said Attorney in Fact shall be as binding upon this Company as if such bond had been executed and acknowledged by the regularly elected officers of this Company.

RLI Insurance Company and **Contractors Bonding and Insurance Company**, as applicable, have each further certified that the following is a true and exact copy of the Resolution adopted by the Board of Directors of each such corporation, and now in force, to-wit:

"All bonds, policies, undertakings, Powers of Attorney or other obligations of the Corporation shall be executed in the corporate name of the Corporation by the President, Secretary, any Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or Agents who shall have authority to issue bonds, policies or undertakings in the name of the Corporation. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the Corporation. The signature of any such officer and the corporate seal may be printed by facsimile or other electronic image."

IN WITNESS WHEREOF, **RLI Insurance Company** and/or **Contractors Bonding and Insurance Company**, as applicable, have caused these presents to be executed by its respective Vice President with its corporate seal affixed this 4th day of February, 2015.

State of Illinois }
County of Peoria } SS



RLI Insurance Company
Contractors Bonding and Insurance Company
Roy C. Die Vice President

On this 4th day of February, 2015, before me, a Notary Public, personally appeared Roy C. Die, who being by me duly sworn, acknowledged that he signed the above Power of Attorney as the aforesaid officer of the **RLI Insurance Company** and/or **Contractors Bonding and Insurance Company**, and acknowledged said instrument to be the voluntary act and deed of said corporation.

Jacqueline M. Bockler
Jacqueline M. Bockler Notary Public



CERTIFICATE
I, the undersigned officer of **RLI Insurance Company**, and/or **Contractors Bonding and Insurance Company**, each Illinois corporations, do hereby certify that the attached Power of Attorney is in full force and effect and is irrevocable; and furthermore, that the Resolution of the Company as set forth in the Power of Attorney, is now in force. In testimony whereof, I have hereunto set my hand and the seal of the **RLI Insurance Company** and/or **Contractors Bonding and Insurance Company** this 2nd day of April, 2015.

RLI Insurance Company
Contractors Bonding and Insurance Company
Roy C. Die Vice President

MINIMUM QUALIFICATIONS QUESTIONNAIRE

Sacramento City Code Section 3.60.020 authorizes the Sacramento City Council to adopt standard minimum qualifications for bidders on competitively bid public works construction projects, and requires, among other provisions, that a bidder meet such minimum qualifications at the time of bid opening in order to bid. On July 31, 2007, the City Council adopted Resolution No. 2007-574 establishing these standard minimum qualifications. Pursuant to City Code section 3.60.020, a bidder failing to meet these minimum qualifications at the time of bid opening shall not be considered a responsible bidder for purposes of bidding on the subject project.

All bidders must demonstrate compliance with the minimum qualifications established by Resolution No. 2007-574 by completing all of the questions contained in this questionnaire. Bidder responses shall be limited to those operating business units, offices, branches and/or subsidiary divisions of the bidder that will be involved with the performance of any project work if awarded the contract. If a bidder answers "yes" to any single question, fails to submit a fully completed questionnaire, or submits false information, this will result in a determination that the minimum qualifications are not met, and the bidder shall not be considered a qualified bidder for purposes of bidding on this contract. If two or more entities submit a bid on a contract as a Joint Venture, each entity within the Joint Venture must separately meet these minimum qualifications for the Joint Venture to be considered a qualified bidder.

The City of Sacramento ("City") shall make its determination on the basis of the submitted questionnaire, as well as any relevant information that is obtained from others or as a result of investigation by the City. While it is the intent of this questionnaire to assist the City in determining whether bidders possess the minimum qualifications necessary to submit bids on the City's competitively bid public works construction contracts, the fact that a bidder submits a questionnaire demonstrating that it meets these minimum qualifications shall not in any way limit or affect the City's ability to: (1) review other information contained in the bid submitted by the bidder, and additional relevant information, and determine whether the contractor is a responsive and/or responsible bidder; or (2) establish pre-qualification requirements for a specific contract or contracts.

By submitting this questionnaire, the bidder consents to the disclosure of its questionnaire answers: (i) to third parties for purposes of verification and investigation; (ii) in connection with any protest, challenge or appeal of any action taken by the City; and (iii) as required by any law or regulation, including without limitation the California Public Records Act (Calif. Gov't Code sections 6250 et seq.). Each questionnaire must be signed under penalty of perjury in the manner designated at the end of the form, by an individual who has the legal authority to bind the bidder submitting the questionnaire. If any information provided by a bidder becomes inaccurate, the bidder shall immediately notify the City and provide updated accurate information in writing, under penalty of perjury.

FOR CITY CLERK USE ONLY

RESOLUTION NO.: 2007-574

DATE ADOPTED: July 31, 2007

QUESTIONNAIRE

NOTICE: For firms that maintain other operating business units, offices, branches and/or subsidiary divisions that will not be involved with the performance of any project work if the firm is awarded the contract, references hereafter to "your firm" shall mean only those operating business units, offices, branches and/or subsidiary divisions that will be involved with the performance of any project work.

All of the following questions regarding "your firm" refer to the firm (corporation, partnership or sole proprietor) submitting this questionnaire, as well as any firm(s) with which any of your firm's owners, officers, or partners are or have been associated as an owner, officer, partner or similar position within the last five years

The firm submitting this questionnaire shall not be considered a responsible bidder if the answer to any of these questions is "yes", or if the firm submits a questionnaire that is not fully completed or contains false information.

1. Classification & Expiration Date(s) of California Contractor's License Number(s) held by firm:

A & B 03/31/16

2. Has a contractor's license held by your firm and/or any owner, officer or partner of your firm been revoked at anytime in the last five years?

Yes No

3. Within the last five years, has a surety firm completed a contract on your firm's behalf, or paid for completion of a contract to which your firm was a party, because your firm was considered to be in default or was terminated for cause by the project owner?

Yes No

4. At the time of submitting this minimum qualifications questionnaire, is your firm ineligible to bid on or be awarded a public works contract, or perform as a subcontractor on a public works contract, pursuant to either California Labor Code section 1777.1 (prevailing wage violations) or Labor Code section 1777.7 (apprenticeship violations)?

Yes No

5. At any time during the last five years, has your firm, or any of its owners, officers or partners been convicted of a crime involving the awarding of a contract for a government construction project, or the bidding or performance of a government contract?

Yes No

FOR CITY CLERK USE ONLY

RESOLUTION NO.: 2007-574

DATE ADOPTED: July 31, 2007

6. Answer either subsection A or B, as applicable:

A. Your firm has completed three or more government construction contracts in Sacramento County within the last five years: Within those five years, has your firm been assessed liquidated damages on three or more government construction contracts in Sacramento County for failure to complete contract work on time?

NOTE: If there is a pending administrative or court action challenging the assessment of liquidated damages on a government contract within the last five years, you need not include that contract in responding to this question.

Yes No Not applicable

OR

B. Your firm has not completed at least three government construction contracts in Sacramento County within the last five years: Within the last three years, has your firm been assessed liquidated damages on three or more government construction contracts for failure to complete contract work on time?

NOTE: If there is a pending administrative or court action challenging an assessment of liquidated damages on a government contract within the last three years, you need not include that contract in responding to this question.

Yes No Not applicable

7. In the last three years has your firm been debarred from bidding on, or completing, any government agency or public works construction contract for any reason?

NOTE: If there is a pending administrative or court action challenging a debarment, you need not include that debarment in responding to this question.

Yes No

8. Has CAL OSHA assessed a total of three or more penalties against your firm for any "serious" or "willful" violation occurring on construction projects performed in Sacramento County at any time within the last three years?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

Yes No

FOR CITY CLERK USE ONLY

RESOLUTION NO.: 2007-574

DATE ADOPTED: July 31, 2007

9. Answer either subsection A or B, as preferred:

A. In the last three years has your firm had a three year average Workers' Compensation experience modification rate exceeding 1.1?

Yes No

OR

B. In the last three years has your firm had a three-year average incident rate for total lost workday cases exceeding 10?

NOTE: Incident rates represent the number of lost workday cases per 100 full-time workers and is to be calculated as: $(N/EH) \times 200,000$, where

N = number of lost workday cases (as defined by the U.S. Dept. of Labor, Bureau of Labor Statistics)
EH = total hours worked by all employees during the calendar year
200,000 = base for 100 equivalent full-time working (working 40 hours per week, 50 weeks per year)

Yes No

10. In the past three years, has the federal EPA, Region IX or a California Air Quality Management District or Regional Water Quality Control Board assessed penalties three or more times, either against your firm, or against the project owner for a violation resulting in whole or in part from any action or omission by your firm on a project on which your firm was a contractor in Sacramento County?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

Yes No

FOR CITY CLERK USE ONLY

RESOLUTION NO.: 2007-574

DATE ADOPTED: July 31, 2007

11. In the past three years, has the federal EPA, Region IX or a California Air Quality Management District or Regional Water Quality Control Board assessed a single penalty of \$100,000 or more, either against your firm, or against the project owner for a violation resulting in whole or in part from any action or omission by your firm on a project on which your firm was the contractor in Sacramento County?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

Yes No

12. In the past three years, have civil penalties been assessed against your firm pursuant to California Labor Code 1777.7 for violation of California public works apprenticeship requirements, three or more times?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

Yes No

13. In the past three years, has a public agency in California withheld contract payments or assessed penalties against your firm for violation of public works prevailing wage requirements, three or more times?

NOTE: If there is a pending administrative or court action appealing a withholding or penalty assessment, you need not include that withholding or penalty assessment in responding to this question.

Yes No

14. Has your firm been assessed penalties for violation of public works prevailing wage requirements in California, in an aggregate amount for the past three years of \$50,000 or more?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

Yes No

FOR CITY CLERK USE ONLY

RESOLUTION NO.: 2007-574

DATE ADOPTED: July 31, 2007

VERIFICATION AND SIGNATURE

I, the undersigned, certify and declare that I have read all the foregoing answers to this Minimum Qualifications Questionnaire, and know their contents. The matters stated in these Questionnaire answers are true of my own knowledge and belief, except as to those matters stated on information and belief, and as to those matters I believe them to be true. I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Signed at Fresno CA, on 04/22/15.
(Location) (Date)

Signature:  _____

Print name: William Williams _____

Title: owner _____

NOTE: If two or more entities submit a bid on a contract as a Joint Venture, each entity within the Joint Venture must submit a separate Minimum Qualifications Questionnaire.

FOR CITY CLERK USE ONLY

RESOLUTION NO.: 2007-574

DATE ADOPTED: July 31, 2007

Green Contracting Survey (Voluntary)

The City of Sacramento and the Sacramento Metropolitan Air Quality District (SMAQMD) are conducting a joint pilot project to help meet Federal Clean Air Standards for the Sacramento region.

Attached is a Green Contracting Fleet Inventory Form. Please complete the form, remove it from the bid package and return it to SMAQMD in the postage paid envelope provided with the bid package. Please do not return the Green Contracting Fleet Inventory Form to the City of Sacramento with the bid documents or otherwise.

A limited amount of funds and other financial incentives may be available to qualified contractors participating in this joint project to assist qualified contractors with upgrading and/or replacing equipment and/or trucks.

Completing and returning the Green Contracting Fleet Inventory Form is strictly voluntary.

DRUG-FREE WORKPLACE POLICY AND AFFIDAVIT

BID PROPOSAL MAY BE DECLARED NONRESPONSIVE IF THIS FORM (COMPLETED) IS NOT ATTACHED.
Pursuant to City Council Resolution CC90-498 dated 6/26/90 the following is required.

The undersigned contractor certifies that it and all subcontractors performing under this Agreement will provide a drug-free workplace by:

1. Publishing a "Drug-Free Workplace" statement notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Establishing a Drug-Free Awareness Program to inform employees about:
 - a. The dangers of drug abuse in the workplace.
 - b. The contractor's policy of maintaining a drug-free workplace.
 - c. Any available drug counseling, rehabilitation, and employee assistance program.
 - d. The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace.
3. Notify employees that as a condition of employment under this Agreement, employees will be expected to:
 - a. Abide by the terms of the statement.
 - b. Notify the employer of any criminal drug statute conviction for a violation occurring in the workplace.
4. Making it a requirement that each employee to be engaged in the performance of the Agreement be given a copy on the "Drug-Free Workplace" statement.
5. Taking one of the following appropriate actions, within thirty (30) days of receiving notice from an employee or otherwise receiving such notice, that said employee has received a drug conviction for a violation occurring in the workplace:
 - a. Taking appropriate disciplinary action against such an employee, up to and including termination; or
 - b. Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a federal, state, or local health, law enforcement or other appropriate agency.

* I certify that no person employed by this company, corporation, or business has been convicted of any criminal drug statute violation on any job site or project where this company, corporation or business was performing was within three years of the date of my signature below.

EXCEPTION:

Date	Violation Type	Place of Occurrence	

If additional space is required use back of this form.

*** The above statement will also be incorporated as a part of each subcontract agreement for any and all subcontractors selected for performance on this project.**

IN THE EVENT THIS COMPANY, CORPORATION, OR BUSINESS IS AWARDED THIS CONSTRUCTION AGREEMENT, AS A RESULT OF THIS BID; THE CONTRACTOR WITH HIS/HER SIGNATURE REPRESENTS TO THE CITY THAT THE INFORMATION DISCLOSED IN THIS DOCUMENT IS COMPLETE AND ACCURATE. IT IS UNDERSTOOD AND AGREED THAT FALSE CERTIFICATION IS SUBJECT TO IMMEDIATE TERMINATION BY THE CITY.

The Representations Made Herein On This Document Are Made Under Penalty Of Perjury.

CONTRACTOR'S NAME: American Construction Engineers

BY: [Signature] owner Date: 04/22/15

Signature Title

Effects of violations: a. Suspension of payments under the Agreement. b. Suspension or termination of the Agreement. c. Suspension or debarment of the contractor from receiving any Agreement from the City of Sacramento for a period not to exceed five years.

Subcontractor and Local Business Enterprise (LBE) Participation Form

**THIS FORM MUST BE SUBMITTED WITH THE SEALED BID PROPOSAL
USE ONLY BASE BID AMOUNT TO ESTIMATE DOLLAR VALUE**

To be eligible for award of this contract, the bidder shall list the business entities used to attain the 5% LBE requirement. Additionally, the bidder shall list all other subcontractors who perform work, render service, or provide materials in an amount in excess of one-half of 1 percent of the total bid amount. In the case of bids for the construction of streets and highways, including bridges, subcontractors whose subcontract value exceeds one-half of 1 percent of the total bid or ten thousand dollars (\$10,000), whichever is greater, shall be listed. Estimated dollar values shall be provided for all work / services listed. The failure to attain the 5% LBE participation or the inclusion of false information or the omission of required information will render the bid non-responsive.

Prime Contractor Name: American Const. Engineers Base Bid Amount: 382,324 Is the Prime Contractor a LBE? Yes No
(REQUIRED) Prime Contractor DIR Registration # 1000004855

Business Entity/Subcontractor Name and Address	Subcontractor License No.	Subcontractor DIR Registration # (subject to verification)	Indicate LBE (subject to verification)	Items of Work and/or Description of Work, Services, or Materials to be provided to complete contract	Estimated Dollar Value of Work, Services, or Materials to be provided for Base Bid
STS Inc. 3241 Fitzgerald Rd. Rancho Cordova, CA 95742	822401	100009673		Overglass Application	\$74,000
Dees Hennessey, Inc. 200 Industrial Rd, Ste 190 San Carlo, CA 94070-6210	481228	1000003007		Hot Crets	\$32,600
A & A Concrete Co. 8272 Berry Ave. Sacramento, CA 95828			Yes	concrete material	\$9,300 -
Hastings Materials 9350 Jackson Rd. Sacramento, CA 95826			Yes	gravel	\$3,500

The Prime Contractor hereby certifies that each subcontractor listed on this Subcontractor and LBE Participation Form has been notified that it has been listed and has consented in writing to its name being submitted for this contract. The Prime Contractor also certifies that it will notify each subcontractor listed on this Form in writing if the contract award is made to the Prime Contractor, and will make all documentation relevant to the subcontractor and LBE participation available to City of Sacramento upon request. The Prime Contractor further certifies that all of the information contained in this Form is true and correct and acknowledges that the City will rely on the accuracy of this information in awarding the contract.

COPY AND ATTACH ADDITIONAL SHEETS AS NECESSARY
THE SUBCONTRACTOR LICENSING NUMBER IS DUE WITHIN 24 HOURS OF THE BID DUE DATE AND TIME.

Page 1 of 2

Subcontractor and Local Business Enterprise (LBE) Participation Form

**THIS FORM MUST BE SUBMITTED WITH THE SEALED BID PROPOSAL
USE ONLY BASE BID AMOUNT TO ESTIMATE DOLLAR VALUE**

To be eligible for award of this contract, the bidder shall list the business entities used to attain the 5% LBE requirement. Additionally, the bidder shall list all other subcontractors who perform work, render service, or provide materials in an amount in excess of one-half of 1 percent of the total bid amount. In the case of bids for the construction of streets and highways, including bridges, subcontractors whose subcontract value exceeds one-half of 1 percent of the total bid or ten thousand dollars (\$10,000), whichever is greater, shall be listed. Estimated dollar values shall be provided for all work / services listed. The failure to attain the 5% LBE participation or the inclusion of false information or the omission of required information will render the bid non-responsive.

Prime Contractor Name: American Construction Engineers Base Bid Amount: 287,324 Is the Prime Contractor a LBE? Yes Yes No
(REQUIRED) Prime Contractor DIR Registration # 1000004855

Business Entity/Subcontractor Name and Address	Subcontractor License No.	Subcontractor DIR Registration # (subject to verification)	Indicate LBE (subject to verification)	Items of Work and/or Description of Work, Services, or Materials to be provided to complete contract	Estimated Dollar Value of Work, Services, or Materials to be provided for Base Bid
HD Supply 4550 Roseville Rd. North Highlands, CA 95660		material supplier	yes	Steel material	\$1,400-

The Prime Contractor hereby certifies that each subcontractor listed on this Subcontractor and LBE Participation Form has been notified that it has been listed and has consented in writing to its name being submitted for this contract. The Prime Contractor also certifies that it will notify each subcontractor listed on this Form in writing if the contract award is made to the Prime Contractor, and will make all documentation relevant to the subcontractor and LBE participation available to City of Sacramento upon request. The Prime Contractor further certifies that all of the information contained in this Form is true and correct and acknowledges that the City will rely on the accuracy of this information in awarding the contract.

COPY AND ATTACH ADDITIONAL SHEETS AS NECESSARY
THE SUBCONTRACTOR LICENSING NUMBER IS DUE WITHIN 24 HOURS OF THE BID DUE DATE AND TIME.

Page 2 of 2

B15190011002

FOLLOWING FORMS TO BE FILLED OUT

AND SIGNED

ONLY

IF AWARDED CONTRACT

AGREEMENT
(Construction Contract Over \$25,000)

THIS AGREEMENT, dated for identification _____, 2015, is made and entered into between the CITY OF SACRAMENTO, a municipal corporation ("City"), and AMERICAN CONSTRUCTION ENGINEERS, 26375 WATTS VALLEY ROAD, TOLLHOUSE, CA 93667 ("Contractor") in the amount of: TWO HUNDRED NINETY FOUR THOUSAND THREE HUNDRED AND TWENTY FOUR DOLLARS AND NO CENTS (\$294,324.00).

The City and Contractor hereby mutually agree as follows:

1. CONTRACT DOCUMENTS

The Contract Documents, sometimes also referred to as the "Contract," consist of the following items, which are hereby incorporated by reference as if set forth in full in this Agreement:

- The Notice to Contractors
- The Proposal Form submitted by the Contractor
- The Instructions to Bidders
- The Local Business Enterprise (LBE) Requirements
- The Requirements for the Non-Discrimination in Employee Benefits by City Contractors Ordinance and the Declaration of Compliance
- The City's Reference Guide for Construction Contracts
- The Addenda, if any
- This Agreement
- The Standard Specifications
- The Special Provisions
- The Plans and Technical Specifications
- The drawings and other data and all developments thereof prepared by City pursuant to the Contract
- Any modifications of any of the foregoing made or approved by City, including but not limited to duly authorized change orders.

Unless specifically noted otherwise, references to the "Standard Specifications" shall mean and refer to the Standard Specifications for Public Construction of the City of Sacramento approved by the Sacramento City Council on June 4, 2007 (Resolution No. 2007-350), and any subsequent amendments thereto approved by the Sacramento City Council or the Sacramento City Manager. Work called for in any one Contract Document and not mentioned in another is to be performed and executed as if mentioned in all Contract Documents. The table of contents, titles and headings contained in the Contract Documents are provided solely to facilitate reference to various provisions of the Contract Documents and in no way affect or limit the interpretation of the provisions to which they refer.

2. DEFINITIONS

Unless otherwise specifically provided herein, all words and phrases defined in the Standard Specifications shall have the same meaning and intent in this Agreement.

3. AGREEMENT CONTROLS

In the event of a conflict between any of the terms and conditions set forth in this Agreement and the terms and conditions set forth in other Contract Documents, the terms and conditions set forth in this Agreement shall prevail, except that the provisions of any duly authorized change order shall prevail over any conflicting provisions of this Agreement.

4. SCOPE OF CONTRACT

Contractor agrees to furnish all tools, equipment, apparatus, facilities, labor, material and transportation necessary to perform and complete in a good and workmanlike manner to the satisfaction of City, all the Work called for in the Contract Documents entitled:

**CABRILLO POOL RENOVATION PROJECT REBID
(L19111300-1)**

including the Work called for in the following alternative bid items described in the Proposal Form: ONE ADDITIVE ALTERNATE

Contractor agrees to perform such Work in the manner designated in and in strict conformity with the Contract Documents.

5. CONTRACT AMOUNT AND PAYMENTS

City agrees to pay and Contractor agrees to accept, as complete payment for the above Work, in accordance with the schedule and procedures set forth in the Contract Documents and subject to deductions, withholdings and additions as specified in the Contract Documents, a total sum that shall not exceed the total bid amount set forth in Contractor's Proposal Form. In addition, subject to deductions, withholdings and additions as specified in the Contract Documents, payment for individual items of the Work shall be computed as follows:

(A) For items of the Work for which a lump sum price is specified in Contractor's Proposal Form, Contractor shall be paid the lump sum price(s) specified in Contractor's Proposal Form; and

(B) For items of the Work for which a unit price is specified in Contractor's Proposal Form, Contractor shall be paid the sum computed at such unit price, or computed at a different price if such different price is determined by City in accordance with the Standard Specifications, based on the actual amount of each such item performed and/or furnished and incorporated in the Work; provided that in no event shall the total sum for a unit price item exceed the total bid amount set forth for such item in the Contractor's Proposal Form, unless authorized by Change Order.

6. PROGRESS PAYMENTS

Subject to the terms and conditions of the Contract, City shall cause payments to be made upon demand of Contractor as follows:

(A) On or about the first of the month, the Engineer shall present to the Contractor a statement showing the amount of labor and materials incorporated in the Work through the twentieth (20) calendar day of the preceding month. After both Contractor and Engineer approve the statement in writing, and the City's labor compliance officer provides written approval, the

City shall issue a certificate for ninety-five (95) percent of the amount it shall find to be due, subject to any deductions or withholdings authorized or required under the Contract or any applicable Laws or Regulations.

(B) No inaccuracy or error in said monthly estimates shall operate to release Contractor from damages arising from such Work or from enforcement of each and every provision of the Contract Documents, and City shall have the right subsequently to correct any error made in any estimate for payment.

(C) Contractor shall not be paid for any defective or improper Work.

(D) The remaining five (5) percent of the value of the Work performed under the Contract, if unencumbered and subject to any deductions or withholdings authorized or required under the Contract or any applicable Laws or Regulations, shall be released not later than sixty (60) days after completion and final acceptance of the Work by City. Acceptance by Contractor of the final payment shall constitute a waiver of all claims against the City arising under the Contract Documents, except for disputed claims in stated amounts that the Contractor specifically reserves in writing, but only to the extent that the Contractor has complied with all procedures and requirements applicable to the presentation and processing of such claim(s) under the Contract Documents. Contractor shall be entitled to substitute securities for retention or to direct that payments of retention be made into escrow, as provided in Public Contract Code Section 22300, upon execution of the City's Escrow Agreement for Security Deposits in Lieu of Retention.

(E) The parties agree that, for purposes of the timely progress payment requirements specified in Public Contract Code Section 20104.50, the date that the City receives a statement jointly approved by the Contractor and the Engineer as provided above shall be deemed to constitute the date that City receives an undisputed and properly submitted payment request from the Contractor. Progress payments not made within 30 days after this date may be subject to payment of interest as provided in Public Contract Code Section 20104.50.

7. RETENTION OF SUMS CHARGED AGAINST CONTRACTOR

When, under the provisions of this Contract or any applicable Laws or Regulations, City is authorized or required to withhold, deduct or charge any sum of money against Contractor, City may deduct and retain the amount of such charge from the amount of the next succeeding progress estimate(s), or from any other moneys due or that may become due Contractor from City. If, on completion or termination of the Contract, sums due Contractor are insufficient to pay City's charges, City shall have the right to recover the balance from Contractor or its Sureties.

8. COMMENCEMENT AND PROSECUTION OF WORK

Contractor shall commence the Work not later than fifteen (15) working days after the date of the written Notice to Proceed from City to Contractor and shall diligently prosecute the Work to final completion. The phrase "commence the Work" means to engage in a continuous program on-site including, but not limited to, site clearance, grading, dredging, land filling and the fabrications, erection, or installation of the Work. The Notice to Proceed shall be issued within fifteen (15) calendar days following execution of the Agreement by the City and the filing by Contractor of the required Bonds and proof of insurance, provided that the Engineer may delay issuance of the Notice to Proceed if the Engineer determines in the Engineer's sole discretion that conditions on

the site of the Work are unsuitable for commencement of the Work. After the Notice to Proceed is issued, the continuous prosecution of Work by Contractor shall be subject only to Excusable Delays as defined in this Agreement.

9. TIME OF COMPLETION

The entire Work shall be brought to completion in the manner provided for in the Contract Documents on or before SIXTY (60) WORKING DAYS from the date of the Notice to Proceed (hereinafter called the "Completion Date") unless extensions of time are granted in accordance with the Contract Documents.

Failure to complete the entire Work by the Completion Date and in the manner provided for in the Contract Documents shall subject Contractor to liquidated damages as provided in this Agreement. Time is and shall be of the essence in the performance of the Contract and the Work.

10. PAYMENTS DO NOT IMPLY ACCEPTANCE OF WORK

The payment of any progress payment, or the acceptance thereof by Contractor, shall not constitute acceptance of the Work or any portion thereof and shall in no way reduce the liability of Contractor to replace unsatisfactory work or material, whether or not the unsatisfactory character of such work or material was apparent or detected at the time such payment was made.

11. ACCEPTANCE NOT RELEASE

Contractor shall correct immediately any defective or imperfect work or materials that may be discovered before final acceptance of the entire Work, whether or not such defect or imperfection was previously noticed or identified by the City. The inspection of the Work, or any part thereof, shall not relieve Contractor of any of its obligations to perform satisfactory work as herein specified.

Failure or neglect on the part of City or any of its officers, employees or authorized agents to discover, identify, condemn or reject defective or imperfect work or materials shall not be construed to imply an acceptance of such work or materials, if such defect or imperfection becomes evident at any time prior to final acceptance of the entire Work, nor shall such failure or neglect be construed as barring City from enforcing Contractor's warranty(ies) or otherwise recovering damages or such a sum of money as may be required to repair or rebuild the defective or imperfect work or materials whenever City may discover the same, subject only to any statutes of limitation that may apply to any such claim.

12. CITY'S RIGHT TO TAKE POSSESSION OF THE WORK IN WHOLE OR IN PART

The City shall have the right at any time to enter upon the Work and perform work not covered by this Contract, or to occupy and use a portion of the Work, prior to the date of the final acceptance of the Work as a whole, without in any way relieving Contractor of any obligations under this Contract.

13. NO WAIVER OF REMEDIES

Neither the inspection by City, its officers, employees or agents, nor any certificate or other approval for the payment of money, nor any payment for, nor acceptance of the whole or any part of the Work by City, nor any extensions of time, nor any position taken by City, its officers,

employees or its agents shall operate as a waiver of any provision of the Contract Documents nor of any power herein reserved to City or any right to damages herein provided, nor shall any waiver of any breach of this Agreement be held to be a waiver of any other or subsequent breach. All remedies provided in the Contract Documents shall be taken and construed as cumulative; in addition to each and every other remedy herein provided, the City shall have any and all equitable and legal remedies that it would in any case have.

14. WARRANTY

Except as otherwise expressly provided in the Contract Documents, and excepting only items of routine maintenance, ordinary wear and tear and unusual abuse or neglect by City, Contractor warrants and guarantees all Work executed and all supplies, materials and devices of whatsoever nature incorporated in or attached to the Work, or otherwise provided as a part of the Work pursuant to the Contract, to be absolutely free of all defects of workmanship and materials for a period of one year after final acceptance of the entire Work by the City. Contractor shall repair or replace all work or material, together with any other work or material that may be displaced or damaged in so doing, that may prove defective in workmanship or material within this one year warranty period without expense or charge of any nature whatsoever to City.

In the event that Contractor shall fail to comply with the conditions of the foregoing warranty within ten (10) days after being notified of the defect in writing, City shall have the right, but shall not be obligated, to repair, or obtain the repair of, the defect and Contractor shall pay to City on demand all costs and expense of such repair. Notwithstanding anything herein to the contrary, in the event that any defect in workmanship or material covered by the foregoing warranty results in a condition that constitutes an immediate hazard to public health or safety, or any property interest, or any person, City shall have the right to immediately repair, or cause to be repaired, such defect, and Contractor shall pay to City on demand all costs and expense of such repair. The foregoing statement relating to hazards to health, safety or property shall be deemed to include both temporary and permanent repairs that may be required as determined in the sole discretion and judgment of City.

In addition to the above, the Contractor shall make a written assignment of all manufacturer's and other product warranties to the City, prior to completion and final acceptance of the Work by City.

The Contractor's Performance Bond shall secure the performance of the Contractor's obligations under this Section 14, and the Contractor and its Surety shall be jointly and severally liable for these obligations.

15. LIQUIDATED DAMAGES IF WORK NOT COMPLETED ON TIME

(A) The actual fact of the occurrence of damages and the actual amount of the damages that City would suffer if the entire Work, and/or any specified portion thereof, were not completed within the time(s) specified herein are dependent upon many circumstances and conditions that could prevail in various combinations, and for this reason, it is impracticable and extremely difficult to fix the actual damages. Damages that City would suffer in the event of such delay include: loss of the use of the project; expenses of prolonged assignment to the project of an architectural and/or engineering staff; prolonged costs of administration, inspection, and supervision; increased operational expenses and/or impaired operation of other facilities dependent upon completion of the project; and the loss and inconvenience suffered by the public

within the City of Sacramento by reason of the delay in the completion of the project or portion thereof. Accordingly, the parties agree, and by execution of this Agreement, Contractor acknowledges that it understands and agrees, that the amount(s) set forth herein as liquidated damages reflect the parties' best efforts at the time of entering into the Contract to estimate the damages that may be incurred by City and the public due to the Contractor's delay in completion of the Work and/or any specified portion thereof, and shall be presumed to be the amount of damages sustained by the failure of Contractor to complete the entire Work and/or any specified portion thereof within the time(s) specified herein.

(B) Contractor shall pay liquidated damages to City for failure to complete the entire Work by the Completion Date (as extended in accordance with the Contract Documents, if applicable) in the amount of **\$410.00 for each calendar day** after the Completion Date (as extended in accordance with the Contract Documents, if applicable), continuing to the time at which the entire Work is completed. Such amount is the actual cash value agreed upon by the City and Contractor as the loss to City and the public resulting from Contractor's default.

The parties agree, and by execution of this Agreement, Contractor acknowledges that it understands and agrees, that the foregoing provisions provide for the imposition of liquidated damages from the Completion Date (as extended in accordance with the Contract Documents, if applicable) until the date of completion of the entire Work as determined by the Engineer in accordance with Section 8-4 of the Standard Specifications, whether or not the Work or any portion thereof is claimed or determined to be substantially complete prior to such date of completion.

(C) In the event Contractor shall become liable for liquidated damages, City, in addition to all other remedies provided by law, shall have the right to withhold any and all payments that otherwise would be or become due Contractor until the liability of Contractor under this section is finally determined. City shall have the right to use and apply such payments, in whole or in part, to reimburse City for all liquidated damages due or to become due to City. Any remaining balance of such payments shall be paid to Contractor only after discharge in full of all liability incurred by Contractor under this section or otherwise under any provision of the Contract Documents or any applicable Law or Regulation. If the sum so retained by City is not sufficient to discharge all such liabilities of Contractor, Contractor shall continue to remain liable to City until all such liabilities are satisfied in full. No failure by City to withhold any payment as specified above shall in any manner be construed to constitute a release of any such liabilities nor a waiver of the City's right to withhold payment for such liabilities.

16. INDEMNITY AND HOLD HARMLESS

(A) Contractor shall defend, hold harmless and indemnify the City, its officers, employees, and agents, and each and every one of them, from and against any and all actions, damages, costs, liabilities, claims, demands, losses, judgments, penalties, costs and expenses of every type and description, whether arising on or off the site of the Work, including, but not limited to, any fees and/or costs reasonably incurred by City's staff attorneys or outside attorneys and any fees and expenses incurred in enforcing this provision (hereafter collectively referred to as "Liabilities"), including but not limited to Liabilities arising from personal injury or death, damage to personal, real or intellectual property or the environment, contractual or other economic damages, or regulatory penalties, arising out of or in any way connected with performance of or failure to perform the Work by the Contractor, any subcontractor or agent, anyone directly or indirectly employed by any of them or anyone for

whose acts any of them may be liable, whether or not (i) such Liabilities are caused in part by a party indemnified hereunder, or (ii) such Liabilities are litigated, settled or reduced to judgment; provided that the foregoing indemnity does not apply to liability for damages for death or bodily injury to persons, injury to property, or other loss, damage or expense to the extent arising from (i) the sole negligence or willful misconduct of, or defects in design furnished by, City, its agents, servants, or independent contractors who are directly responsible to City, or (ii) the active negligence of City.

(B) The existence or acceptance by City of any of the insurance policies or coverages described in this Agreement shall not affect or limit any of City's rights under this Section 16, nor shall the limits of such insurance limit the liability of Contractor hereunder. The provisions of this Section 16 shall survive any expiration or termination of the Contract.

17. CONTRACTOR SHALL ASSUME RISKS

Until the completion and final acceptance by City of all Work under this Contract, the Work shall be under Contractor's responsible care and charge, and Contractor, at no cost to City, shall rebuild, repair, restore and make good all injuries, damages, re-erectments, and repairs occasioned or rendered necessary by accidental causes of any nature, to all or any portions of the Work.

18. GENERAL LIABILITY OF CONTRACTOR

Except as otherwise herein expressly stipulated, Contractor shall perform all the Work and furnish all the labor, materials, tools, equipment, apparatus, facilities, transportation, power and light, and appliances, necessary or proper for performing and completing the Work herein required in the manner and within the time herein specified. The mention of any specific duty or liability of Contractor shall not be construed as a limitation or restriction of any general liability or duty of Contractor, and any reference to any specific duty or liability shall be construed to be solely for the purpose of explanation.

19. INSURANCE

During the entire term of this Contract and until completion and final acceptance of the Work as provided in the Contract Documents, Contractor shall maintain in full force and effect the insurance coverage described in this section.

Full compensation for all premiums that Contractor is required to pay for the insurance coverage described herein shall be included in the compensation specified for performance of the Work under the Contract. No additional compensation will be provided for Contractor's insurance premiums.

It is understood and agreed by the Contractor that its liability to the City shall not in any way be limited to or affected by the amount of insurance coverage required of or carried by the Contractor.

(A) Minimum Scope and Limits of Insurance Coverage

(1) Commercial General Liability Insurance, providing coverage at least as broad as ISO CGL Form 00 01 on an occurrence basis for bodily injury, including death, of one or more persons, property damage and personal injury, with limits of not less than one

million dollars (\$1,000,000) per occurrence. The policy shall provide contractual liability and products and completed operations coverage for the term of the policy.

(2) Automobile Liability Insurance providing coverage at least as broad as ISO Form CA 00 01 on an occurrence basis for bodily injury, including death, of one or more persons, property damage and personal injury, with limits of not less than one million dollars (\$1,000,000) per occurrence. The policy shall provide coverage for owned, non-owned and/or hired autos as appropriate to the operations of the Contractor.

(3) Workers' Compensation Insurance with statutory limits, and Employers' Liability Insurance with limits of not less than one million dollars (\$1,000,000). The Worker's Compensation policy shall include a waiver of subrogation.

(B) Additional Insured Coverage

(1) Commercial General Liability Insurance: The City, its officials, employees and volunteers shall be covered by policy terms or endorsement as additional insureds as respects general liability arising out of activities performed by or on behalf of Contractor, products and completed operations of Contractor, and premises owned, leased or used by Contractor. The general liability additional insured endorsement must be signed by an authorized representative of the insurance carrier.

If the policy includes a blanket additional insured endorsement or contractual additional insured coverage, the above signature requirement may be fulfilled by submitting that document with a signed declaration page referencing the blanket endorsement or policy form.

(2) Automobile Liability Insurance: The City, its officials, employees and volunteers shall be covered by policy terms or endorsement as additional insureds as respects auto liability.

(C) Other Insurance Provisions

The policies are to contain, or be endorsed to contain, the following provisions:

(1) Contractor's insurance coverage shall be primary insurance as respects City, its officials, employees and volunteers. Any insurance or self-insurance maintained by City, its officials, employees or volunteers shall be in excess of Contractor's insurance and shall not contribute with it.

(2) Any failure to comply with reporting provisions of the policies shall not affect coverage provided to City, its officials, employees or volunteers.

(3) Coverage shall state that Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

(4) City will be provided with thirty (30) days written notice of cancellation or material change in the policy language or terms.

(D) Acceptability of Insurance

Insurance shall be placed with insurers with a Bests' rating of not less than A:V. Self-insured retentions, policy terms or other variations that do not comply with the requirements of this Section 19 must be declared to and approved by the City Risk Management Division in writing prior to execution of this Agreement.

(E) Verification of Coverage

(1) Contractor shall furnish City with certificates and required endorsements evidencing the insurance required. The certificates and endorsements shall be forwarded to the City representative designated by City. Copies of policies shall be delivered to the City on demand. Certificates of insurance shall be signed by an authorized representative of the insurance carrier.

(2) The City may withdraw its offer of contract or cancel the Contract if the certificates of insurance and endorsements required have not been provided prior to execution of this Agreement. The City may withhold payments to Contractor and/or cancel the Contract if the insurance is canceled or Contractor otherwise ceases to be insured as required herein.

(F) Subcontractors

Contractor shall require and verify that all subcontractors maintain insurance coverage that meets the minimum scope and limits of insurance coverage specified in subsection A, above.

20. FAILURE TO MAINTAIN BONDS OR INSURANCE

If, at any time during the performance of this Contract, Contractor fails to maintain any item of the bonds and/or insurance required under the Contract in full force and effect, Contractor shall immediately suspend all work under the Contract and notify City in writing of such failure. After such notice is provided, or if City discovers such failure and notifies Contractor, the City thereafter may withhold all Contract payments due or that become due until notice is received by City that such bonds and/or insurance have been restored in full force and effect and that the premiums therefor have been paid for a period satisfactory to the Division of Risk Management. Contractor shall not resume work until notified by City to do so, and the City shall have no responsibility or liability for any costs incurred by Contractor as a result of such suspension of Work.

In addition to the foregoing, any failure to maintain any item of the required bonds and/or insurance at any time during the performance of this Contract will be sufficient cause for termination of the Contract by City.

The Contractor shall be solely responsible for, and shall defend, indemnify and hold harmless the City, its officers, employees and agents against and from, any and all damages, claims, losses, actions, costs or other expenses of any kind incurred by any party as a direct or indirect result of any suspension of Work or termination of the Contract under the provisions of this Section.

21. EXCUSABLE DELAYS

For the purpose of these Contract Documents, the term "Excusable Delay" shall mean, and is limited to, delay caused directly by: acts of God; acts of a public enemy; fires; inclement weather as determined by the Engineer; riots; insurrections; epidemics; quarantine restrictions; strikes; lockouts; sitdowns; acts of a governmental agency; priorities or privileges established for the manufacture, assemble, or allotment of materials necessary in the Work by order, decree or otherwise of the United States or by any department, bureau, commission, committee, agent, or administrator of any legally constituted public authority; changes in the Work ordered by City insofar as they necessarily require additional time in which to complete the Work; the prevention of Contractor from commencing or prosecuting the Work because of the acts of others, excepting Contractor's subcontractors or suppliers; or the prevention of Contractor from commencing or prosecuting the Work because of a Citywide failure of public utility service.

The term "Excusable Delay" shall specifically not include: (i) any delay that could have been avoided by the exercise of care, prudence, foresight and diligence on the part of Contractor; (ii) any delay in the prosecution of any part of the Work that does not constitute a Controlling Operation, whether or not such delay is unavoidable; (iii) any reasonable delay resulting from time required by City for review of any Contractor submittals and for the making of surveys, measurements and inspection; and, (iv) any delay arising from an interruption in the prosecution of the Work on account of reasonable interference by other Contractors employed by City that does not necessarily prevent the completion of the entire Work within the time specified. Excusable Delays, if any, shall operate only to extend the Completion Date (not in excess of the period of such delay as determined by City) and shall not under any circumstances increase the amount City is required to pay Contractor except as otherwise provided in these Contract Documents.

22. CONTRACTOR TO SERVE NOTICE OF DELAYS

Whenever Contractor foresees any delay in the prosecution of the Work, and in any event as soon as possible (not to exceed a period of ten (10) calendar days) after the initial occurrence of any delay that Contractor regards as or may later claim to be an Excusable Delay, the Contractor shall notify the Engineer in writing of such delay and its cause, in order that the Engineer: (i) may take immediate steps to prevent if possible the occurrence or continuance of the delay; or (ii) if this cannot be done, may determine whether the delay is to be considered excusable, how long it continues, and to what extent the prosecution and completion of the Work are delayed thereby. Said written notice shall constitute an application for an extension of time only if the notice requests such an extension and sets forth the Contractor's estimate of the additional time required together with a full description of the cause of the delay relied upon.

After the completion of any part or whole of the Work, the Engineer, in estimating the amount due Contractor, will assume that any and all delays that may have occurred in its prosecution and completion were not Excusable Delays, except for such delays for which the Contractor has provided timely written notice as required herein, and that the Engineer has found to be excusable. Contractor shall not be entitled to claim Excusable Delay for any delay for which the Contractor failed to provide such timely written notice.

23. EXTENSION OF TIME

If the Contractor complies with Section 22, above, and the Engineer finds a delay claimed by the Contractor to be an Excusable Delay, the Contractor shall be allowed an extension of time to complete the Work that is proportional to the period of Excusable Delay determined by the

Engineer, subject to the approval by City of a change order granting such time extension. During a duly authorized extension for an Excusable Delay, City shall not charge liquidated damages against the Contractor for such delay.

If the City extends the time to complete the Work as provided herein, such extension shall in no way release any warranty or guarantee given by Contractor pursuant to the provisions of the Contract Documents, nor shall such extension of time relieve or release the sureties of the Bonds provided pursuant to the Contract Documents. By executing such Bonds, the Sureties shall be deemed to have expressly agreed to any such extension of time. The granting of any extension of time as provided herein shall in no way operate as a waiver on the part of City of its rights under this Contract, excepting only extension of the Completion Date for such period of Excusable Delay as may be determined by the Engineer and approved by a duly authorized change order.

24. NO PAYMENT FOR DELAYS

No damages or compensation of any kind shall be paid to Contractor or any subcontractor because of delays in the progress of the Work whether or not such delays qualify for extension of time under this Agreement; except that this provision shall not preclude the recovery of damages for a delay caused by the City that is unreasonable under the circumstances and that is not within the contemplation of the parties, provided that the Contractor timely submits all such written notice(s) and fully complies with such other procedures as may be specified in the Contract Documents or any Laws or Regulations for Contractor to claim damages for such delay.

25. CHANGES IN THE WORK

Changes in the Work authorized or directed in accordance with the Contract Documents and extensions of time of completion made necessary by reason thereof shall not in any way release any warranty or guarantee given by Contractor pursuant to the provisions of the Contract Documents, nor shall such changes in the Work relieve or release the Sureties on Bonds provided pursuant to the Contract Documents. By executing such Bonds, the Sureties shall be deemed to have expressly agreed to any such change in Work and to any extension of time made by reason thereof.

26. TERMINATION AFTER COMPLETION DATE

In addition to any other rights City may have, if any services or work required under the Contract (including but not limited to punch list items) are not completed as of the Completion Date (as adjusted by any extensions of time for Excusable Delays granted pursuant to the Contract Documents), City may terminate the Contract at any time after the Completion Date (as adjusted by any extensions of time for Excusable Delays granted pursuant to the Contract Documents), by providing a written notice to Contractor specifying the date of termination. Such notice also may specify conditions or requirements that Contractor must meet to avoid termination of the Contract on such date. If Contractor fails to fulfill all such conditions and requirements by such termination date, or, if no such conditions or requirements are specified, Contractor shall cease rendering services and performing work on such termination date, and shall not be entitled to receive any compensation for services rendered or work performed after such termination date. In the event of such termination, Contractor shall remain liable to City for liquidated damages incurred for any period of time prior to the termination date.

In addition to any other charges, withholdings or deductions authorized under the Contract or any Laws or Regulations, if City terminates the Contract pursuant to this section, City may withhold

and deduct from any payment and/or retention funds otherwise due Contractor any sum necessary to pay the City's cost of completing or correcting, or contracting for the completion or correction of, any services or work under the Contract that are not completed to the satisfaction of the City or that otherwise are deficient or require correction as of such termination date, including but not limited to incomplete punch list items. Such costs shall include all of the City's direct and indirect costs incurred to complete or correct such services or work, including the City's administrative and overhead costs. If the amount of payment(s) and/or retention funds otherwise due the Contractor are insufficient to pay such costs, City shall have the right to recover the balance of such costs from the Contractor and/or its Surety(ies).

27. TERMINATION FOR CONVENIENCE

Upon written notice to the Contractor, the City may at any time, without cause and without prejudice to any other right or remedy of the City, elect to terminate the Contract for the convenience of City. In such case, the Contractor shall be paid (without duplication of any items, and after deduction and/or withholding of any amounts authorized to be deducted or withheld by the Contract Documents or any Laws or Regulations):

(A) For Work executed in accordance with the Contract Documents prior to the effective date of termination and determined to be acceptable by the Engineer, including fair and reasonable sums for overhead and profit on such Work;

(B) For reasonable claims, costs, losses, and damages incurred in settlement of terminated contracts with subcontractors, suppliers, and others; and

(C) For reasonable expenses directly attributable to termination.

Contractor shall not be paid for any loss of anticipated profits or revenue for any Work not performed prior to termination, nor for any economic loss arising out of or resulting from such termination, except for the payments listed in this section. Contractor's warranty under Section 14 of this Agreement shall apply, and Contractor shall remain responsible for all obligations related to such warranty, with respect to all portions of the Work performed prior to the effective date of the termination for convenience pursuant to this section. The City shall be entitled to have any or all remaining Work performed by other contractors or by any other means at any time after the effective date of a termination for convenience pursuant to this section.

28. TERMINATION FOR BREACH OF CONTRACT

If Contractor abandons the Work under this Contract, or if the Contract or any portion of the Contract is sublet or assigned without the consent of the City, or if the Engineer determines in the Engineer's sole discretion that the conditions of the Contract in respect to the rate of progress of the Work are not being fulfilled or any part thereof is unnecessarily delayed, or if Contractor violates or breaches, or fails to execute in good faith, any of the terms or conditions of the Contract, or if Contractor refuses or fails to supply enough properly skilled labor or materials or refuses or fails to make prompt payment to subcontractors for material or labor, or if Contractor disregards any Laws or Regulations or proper instruction or orders of the Engineer, then, notwithstanding any provision to the contrary herein, the City may give Contractor and its Sureties written notification to immediately correct the situation or the Contract shall be terminated.

In the event that such notice is given, and, in the event such situation is not corrected, or arrangements for correction satisfactory to the City are not made, within ten (10) calendar days from the date of such notice or within such other period of time as may be specified by the City in the notice, the Contract shall upon the expiration of said period cease and terminate. In the event of any such termination, City may take over the Work and prosecute the Work to completion, or otherwise, and the Contractor and its Sureties shall be liable to City for any cost occasioned City thereby, as hereinafter set forth.

In the event City completes the Work, or causes the Work to be completed, no payment of any kind shall be made to Contractor until the Work is complete. The cost of completing the Work, including but not limited to, extra costs of project administration and management incurred by City, both direct or indirect, shall be deducted from any sum then due, or that becomes due, to Contractor from City. If sums due to Contractor from City are less than the cost of completing the Work, Contractor and its Sureties shall pay City a sum equal to this difference on demand. In the event City completes the Work, and there is a sum remaining due to Contractor after City deducts the costs of completing the Work, then City shall pay such sum to Contractor. The Contractor and Contractor's Sureties shall be jointly and severally liable for all obligations imposed on Contractor hereunder.

No act by City before the Work is finally accepted, including, but not limited to, exercise of other rights under the Contract, actions at law or in equity, extensions of time, payments, assessments of liquidated damages, occupation or acceptance of any part of the Work, waiver of any prior breach of the Contract or failure to take action pursuant to this section upon the happening of any prior default or breach of Contractor, shall be construed to be a waiver or estoppel of the City's right to act pursuant to this Section upon any subsequent event, occurrence or failure by Contractor to fulfill the terms and conditions of the Contract. The rights of City to terminate the Contract pursuant to this Section and pursuant to Sections 26 and 27 are cumulative and are in addition to all other rights of City pursuant to the Contract and at law or in equity.

29. CONTRACTOR BANKRUPT

If Contractor should commence any bankruptcy proceeding, or if Contractor is adjudged a bankrupt, or if Contractor makes any assignment for the benefit of creditors, or if a receiver is appointed on account of Contractor's insolvency, then the City may, without prejudice to any other right or remedy, terminate the Contract and complete the work by giving notice as provided in Section 28 above.

30. SURETIES' OBLIGATIONS UPON TERMINATION

If the City terminates the Contract pursuant to Section 28 or Section 29 above:

(A) The Surety under Contractor's performance bond shall be fully responsible for all of the Contractor's remaining obligations of performance under the Contract as if the Surety were a party to the Contract, including without limitation Contractor's obligations, as provided in the Contract Documents, to complete and provide a one-year warranty of the entire Work, pay liquidated damages and indemnify, defend and hold harmless City, up to the full amount of the performance bond.

(B) The Surety under Contractor's payment bond shall be fully responsible for the performance of all of the Contractor's remaining payment obligations for work, services,

equipment or materials performed or provided in connection with the Work or any portion thereof, up to the full amount of the payment bond.

31. ACCOUNTING RECORDS OF CONTRACTOR

During performance of the Contract and for a period of three (3) years after completing the entire Work, Contractor shall maintain all accounting and financial records related to the Contract and performance of the Work in accordance with generally accepted accounting practices, and shall keep and make such records available for inspection and audit by representatives of the City upon reasonable written notice.

32. USE TAX REQUIREMENTS

During the performance of this Agreement, CONTRACTOR, for itself, its assignees and successors in interest, agrees as follows:

(A) Use Tax Direct Payment Permit: For all leases and purchases of materials, equipment, supplies, or other tangible personal property used to perform the Agreement and shipped from outside California, the Contractor and any subcontractors leasing or purchasing such materials, equipment, supplies or other tangible personal property shall obtain a Use Tax Direct Payment Permit from the California State Board of Equalization ("SBE") in accordance with the applicable SBE criteria and requirements.

(B) Sellers Permit: For any construction contract and any construction subcontract in the amount of \$5,000,000 or more, Contractor and the subcontractor(s) shall obtain sellers permits from the SBE and shall register the jobsite as the place of business for the purpose of allocating local sales and use tax to the City. Contractor and its subcontractors shall remit the self-accrued use tax to the SBE, and shall provide a copy of each remittance to the City.

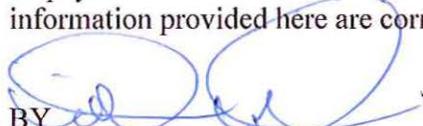
(C) The above provisions shall apply in all instances unless prohibited by the funding source for the Agreement.

IN WITNESS WHEREOF, the parties hereto have signed this Agreement on the date set for opposite their names.

CONTRACTOR

Under penalty of perjury, I certify that the taxpayer identification number and all other information provided here are correct.

DATE 05/05/15

BY 

William Williams

Print Name
Owner

Title

BY _____

Print Name _____

Title _____

Federal ID# _____

State ID# _____

1021485

City of Sacramento Business Operation Tax Certificate No. (City will not award contract until Certificate Number is obtained)

Type of Business Entity (check one):

- Individual/Sole Proprietor
- Partnership
- Corporation
- Limited Liability Company
- Other (please specify: _____)

CITY OF SACRAMENTO
a municipal corporation

DATE _____

BY _____

For: _____
City Manager

Original Approved As To Form:

Attest:

City Attorney

City Clerk

**CITY OF SACRAMENTO
PERFORMANCE BOND**

Bond No.: CSB0020701

Premium: \$5,415.00

Page 1 of 1

WHEREAS, the City of Sacramento, State of California, hereinafter called City, has conditionally awarded to **AMERICAN CONSTRUCTION ENGINEERS, 26375 WATTS VALLEY ROAD, TOLLHOUSE, CA 93667**

as principal, hereinafter called Contractor, a contract for construction of:

**CABRILLO POOL RENOVATION PROJECT REBID
(L19111300-1)**

which contract is by reference incorporated herein and made a part hereof as if the Surety named below were a party to the contract, and is hereinafter referred to as the Contract; and

WHEREAS, under the terms of the Contract, Contractor is required to furnish a bond for the faithful performance of the Contract.

NOW, THEREFORE, we the Contractor and *(here insert full name and address of Surety):*

Contractors Bonding and Insurance Company,
a corporation duly authorized and admitted to transact business and issue surety bonds in the State of California, hereinafter called Surety, are held and firmly bound unto the City, as obligee, in the sum of:

TWO HUNDRED NINETY FOUR THOUSAND THREE HUNDRED AND TWENTY FOUR DOLLARS AND NO CENTS (\$294,324.00), for the payment of which sum well and truly to be made, we the Contractor and Surety bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally. The condition of this obligation is such that, if the Contractor, Contractor's heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and fully perform all covenants, conditions and agreements required to be kept and performed by Contractor in the Contract and any changes, additions or alterations made thereto, to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meanings, and shall indemnify and save harmless the City, its officers, employees and agents, as therein provided, then the Surety's obligations under the Contract and this bond shall be null and void; otherwise they shall be and remain in full force and effect. This obligation shall remain in full force and effect through the end of the Contract warranty period, which will expire one year after the completion of work date specified in the Notice of Completion filed for the above-named project.

As part of the obligations secured hereby and in addition to the sum specified above, there shall be included all costs, expenses and fees, including attorney's fees, reasonably incurred by City in successfully enforcing such obligations, all to be taxed as costs and included in any judgment rendered.

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

IN WITNESS WHEREOF, this instrument has been duly executed by authorized representatives of the Contractor and Surety. SIGNED AND SEALED on May 6th, 2015.

American Construction Engineers
(Contractor) (Seal)
By [Signature]
Title owner

Contractors Bonding and Insurance Company
(Surety) (Seal)
By [Signature]
Title Cody Lyman, Attorney-in-Fact

ORIGINAL APPROVED AS TO FORM:

City Attorney

Agent name & Address Alliant Insurance Services, Inc.
9 E River Park Place East, Ste. 310, Fresno, CA 93720
Agent Phone # 559-374-3560
Surety Phone # 1-800-331-4929
California License # 0C36861

**CITY OF SACRAMENTO
PAYMENT BOND**

Bond No.: CSB0020701
Premium: Included in Performance Bond
Premium

Page 1 of 1

WHEREAS, the City of Sacramento, in the State of California, hereinafter called City, has conditionally awarded to: **AMERICAN CONSTRUCTION ENGINEERS, 26375 WATTS VALLEY ROAD, TOLLHOUSE, CA 93667**

hereinafter called Contractor, a contract for construction of:

**CABRILLO POOL RENOVATION PROJECT REBID
(L19111300-1)**

Which contract is by reference incorporated herein and made a part hereof, and is hereinafter referred to as the Contract; and

WHEREAS, under the terms of the Contract and pursuant to Chapter 5 of Title 3 of Part 6 of Division 4 of the California Civil Code (commencing with Civil Code Section 9550), Contractor is required to furnish a good and sufficient payment bond to secure payment of the claims to which reference is made in Civil Code Section 9554.

NOW, THEREFORE, we the Contractor and (*here insert full name and address of Surety*):

Contractors Bonding and Insurance Company, a corporation duly authorized and admitted to transact business and issue surety bonds in the State of California, hereinafter called Surety, are held and firmly bound unto the City, and unto all persons or entities entitled to assert a claim against a payment bond under any of the aforesaid Civil Code provisions in the sum of **TWO HUNDRED NINETY FOUR THOUSAND THREE HUNDRED AND TWENTY FOUR DOLLARS AND NO CENTS (\$294,324.00)**, on the condition that if Contractor shall fail to pay for any materials or equipment furnished or used in performance of the Contract, or for any work or labor thereon of any kind, or for amounts due under the Unemployment Insurance Act with respect to such work or labor, or for any amounts required to be deducted, withheld, and paid over to the Franchise Tax Board or the Employment Development Department from the wages of employees of the Contractor and all subcontractors with respect to such work or labor, then the Surety shall pay the same in an amount not exceeding the sum specified above. If suit is brought upon this bond, Surety shall pay, in addition to the above sum, all costs, expenses and fees, including attorney's fees, reasonably incurred by any party in successfully enforcing the obligation secured hereby, all to be taxed as costs and included in any judgment rendered. Should the condition of this bond be fully performed, then this obligation shall become null and void, otherwise it shall be and remain in full force and effect, and shall bind Contractor, Surety, their heirs, executors, administrators, successors and assigns, jointly and severally.

It is hereby stipulated and agreed that this bond shall inure to the benefit of all persons, companies, corporations, political subdivisions, State agencies and other entities entitled to assert a claim against a payment bond under any of the aforesaid Civil Code provisions, so as to give a right of action to them or their assigns in any suit brought upon this bond. The Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or to the specifications accompanying the same shall in any way affect its obligations on this bond, and it does hereby waive notice of any such change, extension, alteration or addition.

IN WITNESS WHEREOF, this instrument has been duly executed by authorized representatives of the Contractor and Surety. SIGNED AND SEALED on May 6th, 20 15.

American Construction Engineers
(Contractor) (Seal)
By [Signature]
Title owner

Contractors Bonding and Insurance Company
(Surety) (Seal)
By [Signature]
Title Cody Lyman, Attorney-in-Fact

ORIGINAL APPROVED AS TO FORM:

City Attorney

Agent name & Address Alliant Insurance Services, Inc.
9 E River Park Place East, Ste. 310, Fresno, CA 93720
Agent Phone # 559-374-3560
Surety Phone # 1-800-331-4929
California License # 0C36861

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

Civil Code § 1189

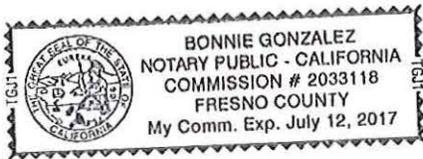
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
) ss
County of Fresno)

On 5/4/2015, before me, Bonnie Gonzalez, Notary Public, personally appeared Cody Lyman, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



(Seal)

Signature: Bonnie Gonzalez
Bonnie Gonzalez, Notary Public

POWER OF ATTORNEY
RLI Insurance Company
Contractors Bonding and Insurance Company

Know All Men by These Presents:

That this Power of Attorney is not valid or in effect unless attached to the bond which it authorizes executed, but may be detached by the approving officer if desired.

That this Power of Attorney may be effective and given to either or both of **RLI Insurance Company** and **Contractors Bonding and Insurance Company**, required for the applicable bond.

That **RLI Insurance Company** and/or **Contractors Bonding and Insurance Company**, each Illinois corporations (as applicable), each authorized and licensed to do business in all states and the District of Columbia do hereby make, constitute and appoint:

Steven P. Edward, Cody Lyman, Lyn Genito, Bonnie Gonzalez, jointly or severally

in the City of Fresno, State of California, as Attorney in Fact, with full power and authority hereby conferred upon him/her to sign, execute, acknowledge and deliver for and on its behalf as Surety, in general, any and all bonds, undertakings, and recognizances in an amount not to exceed Ten Million Dollars (\$10,000,000.00) for any single obligation.

The acknowledgment and execution of such bond by the said Attorney in Fact shall be as binding upon this Company as if such bond had been executed and acknowledged by the regularly elected officers of this Company.

RLI Insurance Company and **Contractors Bonding and Insurance Company**, as applicable, have each further certified that the following is a true and exact copy of the Resolution adopted by the Board of Directors of each such corporation, and now in force, to-wit:

"All bonds, policies, undertakings, Powers of Attorney or other obligations of the Corporation shall be executed in the corporate name of the Corporation by the President, Secretary, any Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or Agents who shall have authority to issue bonds, policies or undertakings in the name of the Corporation. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the Corporation. The signature of any such officer and the corporate seal may be printed by facsimile or other electronic image."

IN WITNESS WHEREOF, **RLI Insurance Company** and/or **Contractors Bonding and Insurance Company**, as applicable, have caused these presents to be executed by its respective Vice President with its corporate seal affixed this 4th day of February, 2015.

State of Illinois }
County of Peoria } SS



RLI Insurance Company
Contractors Bonding and Insurance Company

Roy C. Die Vice President

On this 4th day of February, 2015, before me, a Notary Public, personally appeared Roy C. Die, who being by me duly sworn, acknowledged that he signed the above Power of Attorney as the aforesaid officer of the **RLI Insurance Company** and/or **Contractors Bonding and Insurance Company**, and acknowledged said instrument to be the voluntary act and deed of said corporation.

CERTIFICATE

I, the undersigned officer of **RLI Insurance Company**, and/or **Contractors Bonding and Insurance Company**, each Illinois corporations, do hereby certify that the attached Power of Attorney is in full force and effect and is irrevocable; and furthermore, that the Resolution of the Company as set forth in the Power of Attorney, is now in force. In testimony whereof, I have hereunto set my hand and the seal of the **RLI Insurance Company** and/or **Contractors Bonding and Insurance Company** this 6th day of May, 2015.

Jacqueline M. Bockler
Notary Public

RLI Insurance Company
Contractors Bonding and Insurance Company

Roy C. Die Vice President





CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
05/05/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	Strong Tie Insurance Services Inc 8135 Florence Ave Ste 201 Downey, CA 90240 License #: 0D87939	CONTACT NAME:	Jacqueline G. Bancud	
		PHONE (A/C, No, Ext):	800-985-2001	FAX (A/C, No):
		E-MAIL ADDRESS:	jmcintyre@strongtieinsurance.com	
		INSURER(S) AFFORDING COVERAGE		NAIC #
INSURED	WILLIAM FREDRICK WILLIAMS DBA: AMERICAN CONSTRUCTION ENGINEERS 26375 WATTS VALLEY RD TOLLHOUSE, CA 93667	INSURER A:	ASSOCIATED INDUSTRIES INSURANCE CO	
		INSURER B:	KINSALE INSURANCE CO	
		INSURER C:		
		INSURER D:		
		INSURER E:		
		INSURER F:		

COVERAGES CERTIFICATE NUMBER: 00000000-0 REVISION NUMBER: 19

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD : WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	Y Y	AES1033636	01/10/2015	01/10/2016	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 4,000,000 PRODUCTS - COMP/OP AGG \$ 4,000,000
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> NON-OWNED AUTOS <input type="checkbox"/> HIRED AUTOS					COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$	Y Y	01000221320	08/05/2014	08/05/2015	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ 2,000,000
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A			PER STATUTE OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
PROJECT NO. L19111300-1, CABRILLO POOL RENOVATION
CITY OF SACRAMENTO, ITS OFFICIALS, AGENTS, EMPLOYEES AND VOLUNTEERS ON THE LIABILITY POLICIES AS ADDITIONAL INSUREDS WITH RESPECT TO ALL OPERATIONS PERFORMED FOR THE CITY OF SACRAMENTO BY OR ON BEHALF OF NAMED INSURED.

CERTIFICATE HOLDER

CANCELLATION

CITY OF SACRAMENTO
DEPARTMENT OF GENERAL SERVICES
5730 24TH ST BLDG 4
SACRAMENTO, CA 95822

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
AUTHORIZED REPRESENTATIVE

(JAC)

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED – OWNERS, LESSEES OR
CONTRACTORS – SCHEDULED PERSON OR
ORGANIZATION**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name of Person or Organization:

PROJECT NO. L19111300-1, CABRILLO POOL RENOVATION
CITY OF SACRAMENTO, ITS OFFICIALS, AGENTS, EMPLOYEES AND VOLUNTEERS ON THE LIABILITY POLICIES AS ADDITIONAL INSURED WITH RESPECT TO ALL OPERATIONS PERFORMED FOR THE CITY OF SACRAMENTO BY OR ON BEHALF OF NAMED INSURED.

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

A. Section II – Who Is An Insured is amended to include as an insured the person or organization shown in the Schedule, with respect to liability arising out of your work operations performed for that insured.

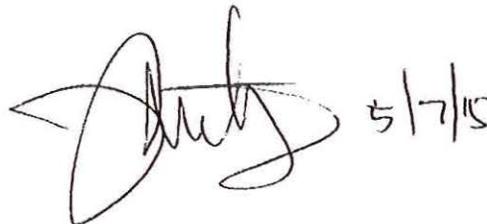
B. With respect to the insurance afforded to these additional insured's, the following exclusion is added:

2. Exclusions

This insurance does not apply to "bodily injury" or "property damage" occurring after:

(1) All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the site of the covered operations has been completed; or

(2) That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.





CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

5/6/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Advantage One Insurance Agency 25350 magic mountain pkwy ste. 346 Valencia CA 91355	CONTACT NAME: Matt Sell PHONE (A/C No, Ext): (661) 320-4910 E-MAIL ADDRESS: matt@sellinsurance.net		FAX (A/C, No): (661) 320-4911
	INSURER(S) AFFORDING COVERAGE INSURER A: America Fire and Casualty Co		NAIC # 24066
INSURED American Construction Engineers 26375 Watts Valley Rd Tollhouse CA 93667	INSURER B:		
	INSURER C:		
	INSURER D:		
	INSURER E:		
	INSURER F:		

COVERAGES CERTIFICATE NUMBER: CL1521000124 REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GENL AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS	X	Y	BAA56557810	2/18/2015	2/18/2016	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ Uninsured motorist combined \$ 500,000
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A				PER STATUTE <input type="checkbox"/> OTH-ER <input type="checkbox"/> E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 Cabrillo Pool Renovation: Project No. L19111300-1:
 THE CITY, ITS OFFICIALS, EMPLOYEES, AND VOLUNTEERS ARE NAMED ADDITIONAL INSURED PER ENDORSEMENT WITH RESPECT TO AUTO LIABILITY. THIS INSURANCE IS PRIMARY AND WAIVER OF SUBROGATION SHALL APPLY.

CERTIFICATE HOLDER City of Sacramento Department of General Services 5730 24th St. Bldg 4 Sacramento, CA 95822	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE Matt Sell/MATTS
---	---

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.
BUSINESS AUTO COVERAGE ENHANCEMENT ENDORSEMENT

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

With respect to coverage afforded by this endorsement, the provisions of the policy apply unless modified by the endorsement.

COVERAGE INDEX

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WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US	20

SECTION II - LIABILITY COVERAGE is amended as follows:

1. BROAD FORM INSURED

SECTION II - LIABILITY COVERAGE, paragraph A.1. - WHO IS AN INSURED is amended to include the following as an insured:

d. Any legally incorporated entity of which you own more than 50 percent of the voting stock during the policy period. However, "insured" does not include any organization that:

- (1) Is a partnership or joint venture; or
- (2) Is an insured under any other automobile policy; or
- (3) Has exhausted its Limit of Insurance under any other automobile policy.

Paragraph d. (2) of this provision does not apply to a policy written to apply specifically in excess of this policy.

e. Any organization you newly acquire or form, other than a partnership or joint venture, of which you own more than 50 percent of the voting stock. This automatic coverage is afforded only for 180 days from the date of acquisition or formation. However, coverage under this provision does not apply:

- (1) If there is similar insurance or a self-insured retention plan available to that organization;

- (2) If the Limits of Insurance of any other insurance policy have been exhausted; or
- (3) To "bodily injury" or "property damage" that occurred before you acquired or formed the organization.

2. EMPLOYEES AS INSUREDS

SECTION II - LIABILITY COVERAGE, paragraph A.1. - WHO IS AN INSURED is amended to include the following as an insured:

- f. Any "employee" of yours while using a covered "auto" you do not own, hire or borrow, but only for acts within the scope of their employment by you. Insurance provided by this endorsement is excess over any other insurance available to any "employee".
- g. An "employee" of yours while operating an "auto" hired or borrowed under a written contract or agreement in that "employee's" name, with your permission, while performing duties related to the conduct of your business and within the scope of their employment. Insurance provided by this endorsement is excess over any other insurance available to the "employee".

3. ADDITIONAL INSURED BY CONTRACT, AGREEMENT OR PERMIT

SECTION II - LIABILITY COVERAGE, paragraph A.1. - WHO IS AN INSURED is amended to include the following as an insured:

- h. Any person or organization with respect to the operation, maintenance or use of a covered "auto", provided that you and such person or organization have agreed in a written contract, agreement, or permit issued to you by governmental or public authority, to add such person, or organization, or governmental or public authority to this policy as an "insured".

However, such person or organization is an "insured":

- (1) Only with respect to the operation, maintenance or use of a covered "auto";
- (2) Only for "bodily injury" or "property damage" caused by an "accident" which takes place after you executed the written contract or agreement, or the permit has been issued to you; and
- (3) Only for the duration of that contract, agreement or permit

4. SUPPLEMENTARY PAYMENTS

SECTION II - LIABILITY COVERAGE, Coverage Extensions, 2.a. Supplementary Payments, paragraphs (2) and (4) are replaced by the following:

- (2) Up to \$3,000 for cost of bail bonds (including bonds for related traffic violations) required because of an "accident" we cover. We do not have to furnish these bonds.
- (4) All reasonable expenses incurred by the insured at our request, including actual loss of earnings up to \$500 a day because of time off from work.

5. AMENDED FELLOW EMPLOYEE EXCLUSION

In those jurisdictions where, by law, fellow employees are not entitled to the protection afforded to the employer by the workers compensation exclusivity rule, or similar protection, the following provision is added:

SECTION II - LIABILITY, exclusion B.5. FELLOW EMPLOYEE does not apply if the "bodily injury" results from the use of a covered "auto" you own or hire.

SECTION III - PHYSICAL DAMAGE COVERAGE is amended as follows:

6. HIRED AUTO PHYSICAL DAMAGE

Paragraph A.4. Coverage Extensions of SECTION III - PHYSICAL DAMAGE COVERAGE, is amended by adding the following:

If hired "autos" are covered "autos" for Liability Coverage, and if Comprehensive, Specified Causes of Loss or Collision coverage are provided under the Business Auto Coverage Form for any "auto" you own, then the Physical Damage coverages provided are extended to "autos":

- a. You hire, rent or borrow; or

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- b. Your "employee" hires or rents under a written contract or agreement in that "employee's" name, but only if the damage occurs while the vehicle is being used in the conduct of your business,

subject to the following limit and deductible:

- A. The most we will pay for "loss" in any one "accident" or "loss" is the smallest of:
- (1) \$50,000; or
 - (2) The actual cash value of the damaged or stolen property as of the time of the "loss"; or
 - (3) The cost of repairing or replacing the damaged or stolen property with other property of like kind and quality, minus a deductible.
- B. The deductible will be equal to the largest deductible applicable to any owned "auto" for that coverage.
- C. Subject to the limit, deductible and excess provisions described in this provision, we will provide coverage equal to the broadest coverage applicable to any covered "auto" you own.
- D. Subject to a maximum of \$1,000 per "accident", we will also cover the actual loss of use of the hired "auto" if it results from an "accident", you are legally liable and the lessor incurs an actual financial loss.
- E. This coverage extension does not apply to:
- (1) Any "auto" that is hired, rented or borrowed with a driver; or
 - (2) Any "auto" that is hired, rented or borrowed from your "employee".

For the purposes of this provision, SECTION V - DEFINITIONS is amended by adding the following: "Total loss" means a "loss" in which the cost of repairs plus the salvage value exceeds the actual cash value.

7. TOWING AND LABOR

SECTION III - PHYSICAL DAMAGE COVERAGE, paragraph A.2. Towing, is amended by the addition of the following:

We will pay towing and labor costs incurred, up to the limits shown below, each time a covered "auto" classified and rated as a private passenger type, "light truck" or "medium truck" is disabled:

- a. For private passenger type vehicles, we will pay up to \$50 per disablement.
- b. For "light trucks", we will pay up to \$50 per disablement. "Light trucks" are trucks that have a gross vehicle weight (GVW) of 10,000 pounds or less.
- c. For "medium trucks", we will pay up to \$150 per disablement. "Medium trucks" are trucks that have a gross vehicle weight (GVW) of 10,001 - 20,000 pounds.

However, the labor must be performed at the place of disablement.

8. PHYSICAL DAMAGE - ADDITIONAL TRANSPORTATION EXPENSE COVERAGE

Paragraph A.4.a., Coverage Extension of SECTION III - PHYSICAL DAMAGE COVERAGE, is amended to provide a limit of \$50 per day and a maximum limit of \$1,500

9. RENTAL REIMBURSEMENT

SECTION III - PHYSICAL DAMAGE COVERAGE, A. COVERAGE, is amended by adding the following:

- a. We will pay up to \$75 per day for rental reimbursement expenses incurred by you for the rental of an "auto" because of "accident" or "loss", to an "auto" for which we also pay a "loss" under Comprehensive, Specified Causes of Loss or Collision Coverages. We will pay only for those expenses incurred after the first 24 hours following the "accident" or "loss" to the covered "auto."
- b. Rental Reimbursement will be based on the rental of a comparable vehicle, which in many cases may be substantially less than \$75 per day, and will only be allowed for the period of time it should take to repair or replace the vehicle with reasonable speed and similar quality, up to a maximum of 30 days.
- c. We will also pay up to \$500 for reasonable and necessary expenses incurred by you to remove and replace your tools and equipment from the covered "auto".
- d. This coverage does not apply unless you have a business necessity that other "autos" available for your use and operation cannot fill.
- e. If "loss" results from the total theft of a covered "auto" of the private passenger type, we will pay under this coverage only that amount of your rental reimbursement expenses which is not already provided under Paragraph 4. Coverage Extension.
- f. No deductible applies to this coverage.

For the purposes of this endorsement provision, materials and equipment do not include "personal effects" as defined in provision 11.

10. EXTRA EXPENSE - BROADENED COVERAGE

Under SECTION III - PHYSICAL DAMAGE COVERAGE, A. COVERAGE, we will pay for the expense of returning a stolen covered "auto" to you. The maximum amount we will pay is \$1,000.

11. PERSONAL EFFECTS COVERAGE

A. SECTION III - PHYSICAL DAMAGE COVERAGE, A. COVERAGE, is amended by adding the following:

If you have purchased Comprehensive Coverage on this policy for an "auto" you own and that "auto" is stolen, we will pay, without application of a deductible, up to \$600 for "personal effects" stolen with the "auto."

The insurance provided under this provision is excess over any other collectible insurance.

B. SECTION V - DEFINITIONS is amended by adding the following:

For the purposes of this provision, "personal effects" mean tangible property that is worn or carried by an insured." "Personal effects" does not include tools, equipment, jewelry, money or securities.

12. ACCIDENTAL AIRBAG DEPLOYMENT

SECTION III - PHYSICAL DAMAGE COVERAGE, B. EXCLUSIONS is amended by adding the following:

If you have purchased Comprehensive or Collision Coverage under this policy, the exclusion for "loss" relating to mechanical breakdown does not apply to the accidental discharge of an airbag.

Any insurance we provide shall be excess over any other collectible insurance or reimbursement by manufacturer's warranty. However, we agree to pay any deductible applicable to the other coverage or warranty.

13. AUDIO, VISUAL AND DATA ELECTRONIC EQUIPMENT COVERAGE

SECTION III - PHYSICAL DAMAGE COVERAGE, B. EXCLUSIONS, exception paragraph a. to exclusions 4.c. and 4.d. is deleted and replaced with the following:

Exclusion 4.c. and 4.d. do not apply to:

- a. Electronic equipment that receives or transmits audio, visual or data signals, whether or not designed solely for the reproduction of sound, if the equipment is permanently installed in the covered "auto" at the time of the "loss" and such equipment is designed to be solely operated by use of the power from the "auto's" electrical system, in or upon the covered "auto" and physical damage coverages are provided for the covered "auto"; or

If the "loss" occurs solely to audio, visual or data electronic equipment or accessories used with this equipment, then our obligation to pay for, repair, return or replace damaged or stolen property will be reduced by a \$100 deductible.

14. LOAN / LEASE GAP COVERAGE

- A. Paragraph C., LIMIT OF INSURANCE of SECTION III - PHYSICAL DAMAGE COVERAGE is amended by adding the following:

The most we will pay for a "total loss" to a covered "auto" owned by or leased to you in any one "accident" is the greater of the:

1. Balance due under the terms of the loan or lease to which the damaged covered "auto" is subject at the time of the "loss" less the amount of:
 - a. Overdue payments and financial penalties associated with those payments as of the date of the "loss",
 - b. Financial penalties imposed under a lease due to high mileage, excessive use or abnormal wear and tear,
 - c. Costs for extended warranties, Credit Life Insurance, Health, Accident or Disability Insurance purchased with the loan or lease,
 - d. Transfer or rollover balances from previous loans or leases,
 - e. Final payment due under a "Balloon Loan",
 - f. The dollar amount of any unrepaired damage which occurred prior to the "total loss" of a covered "auto",
 - g. Security deposits not refunded by a lessor,
 - h. All refunds payable or paid to you as a result of the early termination of a lease agreement or as a result of the early termination of any warranty or extended service agreement on a covered "auto",
 - i. Any amount representing taxes,
 - j. Loan or lease termination fees; or
2. The actual cash value of the damage or stolen property as of the time of the "loss".

An adjustment for depreciation and physical condition will be made in determining the actual cash value at the time of the "loss". This adjustment is not applicable in Texas.

- B. ADDITIONAL CONDITIONS

This coverage applies only to the original loan for which the covered "auto" that incurred the loss serves as collateral, or lease written on the covered "auto" that incurred the loss.

- C. SECTION V - DEFINITIONS is changed by adding the following:

As used in this endorsement provision, the following definitions apply:

"Total loss" means a "loss" in which the cost of repairs plus the salvage value exceeds the actual cash value.

A "balloon loan" is one with periodic payments that are insufficient to repay the balance over the term of the loan, thereby requiring a large final payment.



15. GLASS REPAIR - WAIVER OF DEDUCTIBLE

Paragraph **D. Deductible** of SECTION III - PHYSICAL DAMAGE COVERAGE is amended by the addition of the following:

No deductible applies to glass damage if the glass is repaired rather than replaced.

16. PARKED AUTO COLLISION COVERAGE (WAIVER OF DEDUCTIBLE)

Paragraph **D. Deductible** of SECTION III - PHYSICAL DAMAGE COVERAGE is amended by the addition of the following:

The deductible does not apply to "loss" caused by collision to such covered "auto" of the private passenger type or light weight truck with a gross vehicle weight of 10,000 lbs. or less as defined by the manufacturer as maximum loaded weight the "auto" is designed to carry while it is:

- a. In the charge of an "insured";
- b. Legally parked; and
- c. Unoccupied.

The "loss" must be reported to the police authorities within 24 hours of known damage.

The total amount of the damage to the covered "auto" must exceed the deductible shown in the Declarations.

This provision does not apply to any "loss" if the covered "auto" is in the charge of any person or organization engaged in the automobile business.

17. TWO OR MORE DEDUCTIBLES

Under SECTION III PHYSICAL DAMAGE COVERAGE, if two or more company policies or coverage forms apply to the same accident, the following applies to paragraph D. Deductible:

- a. If the applicable Business Auto deductible is the smaller (or smallest) deductible it will be waived; or
- b. If the applicable Business Auto deductible is not the smaller (or smallest) deductible it will be reduced by the amount of the smaller (or smallest) deductible; or
- c. If the loss involves two or more Business Auto coverage forms or policies the smaller (or smallest) deductible will be waived.

For the purpose of this endorsement company means any company that is part of the Liberty Mutual Group.

SECTION IV - BUSINESS AUTO CONDITIONS is amended as follows:

18. UNINTENTIONAL FAILURE TO DISCLOSE HAZARDS

SECTION IV- BUSINESS AUTO CONDITIONS, Paragraph **B.2.** is amended by adding the following:

If you unintentionally fail to disclose any hazards, exposures or material facts existing as of the inception date or renewal date of the Business Auto Coverage Form, the coverage afforded by this policy will not be prejudiced.

However, you must report the undisclosed hazard of exposure as soon as practicable after its discovery, and we have the right to collect additional premium for any such hazard or exposure.

19. AMENDED DUTIES IN THE EVENT OF ACCIDENT, CLAIM, SUIT, OR LOSS

SECTION IV - BUSINESS AUTO CONDITIONS, paragraph **A.2.a.** is replaced in its entirety by the following:

- a. In the event of "accident", claim, "suit" or "loss", you must promptly notify us when it is known to:
 - 1. You, if you are an individual;
 - 2. A partner, if you are a partnership;
 - 3. Member, if you are a limited liability company;
 - 4. An executive officer or the "employee" designated by the Named Insured to give such notice, if you are a corporation.

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To the extent possible, notice to us should include:

- (1) How, when and where the "accident" or "loss" took place;
- (2) The "insureds" name and address; and
- (3) The names and addresses of any injured persons and witnesses.

20. WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US

SECTION IV - BUSINESS AUTO CONDITIONS, paragraph A.5., Transfer of Rights of Recovery Against Others to Us, is amended by the addition of the following:

If the person or organization has waived those rights before an "accident" or "loss", our rights are waived also.

21. HIRED AUTO COVERAGE TERRITORY

SECTION IV - BUSINESS AUTO CONDITIONS, paragraph B.7., Policy Period, Coverage Territory, is amended by the addition of the following:

- f. For "autos" hired 30 days or less, the coverage territory is anywhere in the world, provided that the insured's responsibility to pay for damages is determined in a "suit", on the merits, in the United States, the territories and possessions of the United States of America, Puerto Rico or Canada or in a settlement we agree to.

This extension of coverage does not apply to an "auto" hired, leased, rented or borrowed with a driver.

SECTION V - DEFINITIONS is amended as follows:

22. BODILY INJURY REDEFINED

Under SECTION V - DEFINITIONS, definition C. is replaced by the following:

"Bodily injury" means physical injury, sickness or disease sustained by a person, including mental anguish, mental injury, shock, fright or death resulting from any of these at any time.

COMMON POLICY CONDITIONS

23. EXTENDED CANCELLATION CONDITION

COMMON POLICY CONDITIONS, paragraph A. - CANCELLATION condition applies except as follows:

If we cancel for any reason other than nonpayment of premium, we will mail to the first Named Insured written notice of cancellation at least 60 days before the effective date of cancellation. This provision does not apply in those states which require more than 60 days prior notice of cancellation.



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of 62

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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
5/6/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

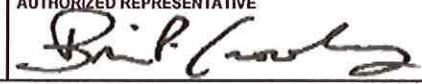
PRODUCER Brown & Brown Insurance Brokers of Sacramento, Inc P. O. Box 619043 Lic #0H38004 Roseville CA 95661-9043	CONTACT NAME: PHONE (A/C, No., Ext): 916-630-8643		FAX (A/C, No): 800-783-0083	
	E-MAIL ADDRESS:			
INSURED AMER071 American Construction Engineer William Williams 26375 Watts Valley Road Tollhouse CA 93667	INSURER(S) AFFORDING COVERAGE		NAIC #	
	INSURER A : State Compensation Ins. Fund		35076	
	INSURER B :			
	INSURER C :			
	INSURER D :			
	INSURER E :			

COVERAGES **CERTIFICATE NUMBER: 50527104** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GENL AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$	
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$	
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$	
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	90965952015	4/18/2015	4/18/2016	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Evidence of Insurance.
City of Sacramento, its officials, agents and employees are shown evidence of insurance Re: Project No. L19111300-1, Cabrillo Pool Renovation

CERTIFICATE HOLDER City of Sacramento Department of General Services 5730 24th St., Bldg 4 Sacramento CA 95822	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
---	--



ENDORSEMENT AGREEMENT
WAIVER OF SUBROGATION
BLANKET BASIS

BROKER COPY

HOME OFFICE
SAN FRANCISCO

EFFECTIVE APRIL 18, 2015 AT 12.01 A.M.
AND EXPIRING APRIL 18, 2016 AT 12.01 A.M.

9096595-15
RENEWAL
NA
8-78-20-93
PAGE 1 OF 1

ALL EFFECTIVE DATES ARE
AT 12:01 AM PACIFIC
STANDARD TIME OR THE
TIME INDICATED AT
PACIFIC STANDARD TIME

**AMERICAN CONSTRUCTION ENGINEERS
26375 WATTS VALLEY RD
TOLLHOUSE, CA 93667**

WE HAVE THE RIGHT TO RECOVER OUR PAYMENTS FROM ANYONE
LIABLE FOR AN INJURY COVERED BY THIS POLICY. WE WILL
NOT ENFORCE OUR RIGHT AGAINST THE PERSON OR
ORGANIZATION NAMED IN THE SCHEDULE.

THIS AGREEMENT APPLIES ONLY TO THE EXTENT THAT YOU
PERFORM WORK UNDER A WRITTEN CONTRACT THAT REQUIRES YOU
TO OBTAIN THIS AGREEMENT FROM US.

THE ADDITIONAL PREMIUM FOR THIS ENDORSEMENT SHALL BE
2.00% OF THE TOTAL POLICY PREMIUM.

SCHEDULE

<u>PERSON OR ORGANIZATION</u>	<u>JOB DESCRIPTION</u>
ANY PERSON OR ORGANIZATION FOR WHOM THE NAMED INSURED HAS AGREED BY WRITTEN CONTRACT TO FURNISH THIS WAIVER	BLANKET WAIVER OF SUBROGATION

NOTHING IN THIS ENDORSEMENT CONTAINED SHALL BE HELD TO VARY, ALTER, WAIVE
OR EXTEND ANY OF THE TERMS, CONDITIONS, AGREEMENTS, OR LIMITATIONS OF THIS
POLICY OTHER THAN AS STATED. NOTHING ELSEWHERE IN THIS POLICY SHALL BE
HELD TO VARY, ALTER, WAIVE OR LIMIT THE TERMS, CONDITIONS, AGREEMENTS OR
LIMITATIONS OF THIS ENDORSEMENT.

COUNTERSIGNED AND ISSUED AT SAN FRANCISCO: MARCH 23, 2015

AUTHORIZED REPRESENTATIVE

PRESIDENT AND CEO

WORKER'S COMPENSATION CERTIFICATION

In accordance with Article 5 (commencing at Section 1860), Chapter 1, Part 7, Division 2 of the Labor Code, the below certificate must be signed and filed with the awarding body prior to performing any work under this contract. Labor Code Section 3700, inter alia, states the following:

"Every employer shall secure the payment of compensation in one or more of the following ways:

- "(a) By being insured against liability to pay compensation in one or more insurers duly authorized to write compensation insurance in this State.
- "(b) By securing from the Director of Industrial Relations a certificate of consent to self-insure, which may be given upon furnishing proof satisfactory to the Director of Industrial Relations of ability to self-insure and to pay any compensation that may become due to his employees.

To be signed by authorized corporate officer or partner or individual submitting the Proposal. If Bidder is: (example)

1. An individual using a firm name, sign: "John Doe, an individual doing business as Blank Company."
2. An individual doing business under his own name, Sign: your name only.
3. A co-partnership, sign: "John Doe and Richard Doe, co-partners doing business as Blank Company, by, John Doe, co-partner.
4. A corporation, sign: "Blank Company, by John Doe, Secretary." (or other title)

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract.

DATE: 05/05/15

Contractor American Construction Engineers

By  
 Signature

PAY REQUEST APPLICATION

PROJECT NAME AND NUMBER: CABRILLO POOL RENOVATION
PROJECT REBID (L19111300-1)

CONTRACTOR: _____

PURCHASE ORDER NO. (Required): _____

COST CENTER: (L19111300-1) _____

INVOICE NO.: _____ PERIOD ENDING DATE: _____

SUBMITTAL OF A PROGRESS SCHEDULE IS REQUIRED TO BE SUBMITTED WITH THIS PAY REQUEST IN ACCORDANCE WITH CITY'S STANDARD SPECS; NO PROGRESS PAYMENTS WILL BE MADE FOR ANY WORK UNTIL SATISFACTORY SCHEDULE HAS BEEN SUBMITTED TO THE ENGINEER.

ORIG. CONTRACT AMT. \$ _____

CHANGE ORDER NO. 1 \$ _____

CHANGE ORDER NO. 2 \$ _____

CHANGE ORDER NO. 3 \$ _____

CHANGE ORDER NO. 4 \$ _____

NET CHANGE BY CHANGE ORDERS: \$ _____

TOT ADJUSTED CONTRACT AMT TO DATE: \$ _____

BALANCE OF CONTRACT TO FINISH: \$ _____

TOTAL COMPLETE AND STORED TO DATE: \$ _____

LESS 5% RETENTION \$ _____

LESS PREVIOUS BILLINGS: \$ _____

AMOUNT DUE THIS INVOICE: \$ _____

Labor Compliance (payrolls etc.) is current and submitted for this Pay Request

Submitted By _____ Date: _____

Submit To: Department of Parks & Recreation
5730 24th Street, Building 3
Sacramento, CA 95814

Attn.: Josette Reina, Project Manager/ Kirsten Wise, Labor Compliance Officer

Approved
By (Const. Insp.) _____ Date: _____

Approved
By (Project Manager) _____ Date: _____

Approved
By (Labor Compliance) _____ Date: _____

In accordance with Public Contract Code §20104.50 the City shall pay Contractor interest on any progress payment which is made by City more than 30 days after City receives an undisputed and properly submitted written payment request. Said interest shall be equal to the rate set forth in CCP§685.010(a), and shall begin to accrue upon the expiration of said 30 day period. Any written request for a progress payment which City determines to be disputed, improper or not suitable for payment for any reason shall be returned to Contractor within 7 days after receipt by City, along with a written statement of the reason or reasons why such request is disputed, improper or not suitable for payment.

(Rev. 9/17/04)

CITY OF SACRAMENTO

DEPARTMENT OF PARKS & RECREATION

SCHEDULE OF VALUES

Remit To:

Department of Parks & Recreation
 Park Operations
 5730 24th Street, Building 3
 Sacramento, CA 95822

PROJECT NAME: CABRILLO POOL RENOVATION PROJECT REBID

CITY PROJ. NO: L19111300-1

CONTRACTOR: AMERICAN CONSTRUCTION ENGINEERS

Payment No. _____

FUNDING: PROP IC FUNDS & MEASURE U

ADDRESS: 26375 WATTS VALLEY ROAD
 TOLLHOUSE, CA 93667

Work Performed Thru _____

Date Payment Submitted _____

PHONE NO: (559) 486-2143

Days Expended on Contract _____

Item No.	Item Description	Estimated Quantity	Unit	Unit Price	Authorized Amount	This Estimate		Total Work Completed		Quantity Remaining
						Quantity	\$ Amount	Quantity	\$ Amount	
1	Cabrillo Pool Renovation	1	LS	282324	\$282,324.00					
2	Altrnate #1	1	LS	12000	\$12,000.00					
TOTALS							\$0.00		\$0.00	\$0.00

CHANGE ORDERS										
1		1.00	LS		\$0.00			\$0.00		\$0.00
2		1.00	LS		\$0.00			\$0.00		\$0.00
3		1.00	LS		\$0.00			\$0.00		\$0.00
4		1.00	LS		\$0.00			\$0.00		\$0.00
5		1.00	LS		\$0.00			\$0.00		\$0.00
TOTAL CHANGE ORDER AMOUNT					\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL AMENDED CONTRACT AMOUNT					\$294,324.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

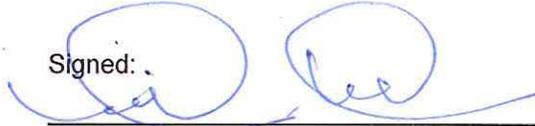
GUARANTEE

We hereby guarantee the: **CABRILLO POOL RENOVATION PROJECT REBID
(L19111300-1)**

City of Sacramento for one (1) year in accordance with the guarantee required in the specifications. We agree to repair or replace any or all such work, together with all or any other work which may be displaced in so doing, that may be proven defective in workmanship or material within the one-year period from the date of acceptance without any expense whatsoever to the City, ordinary wear and tear and unusual abuse or neglect excepted.

In the event of our failure to comply with the above-mentioned conditions within five (5) days time after being notified in writing, we collectively or separately, do hereby authorize the City to proceed to have the defects repaired and made good at our expense and will pay the costs and damages, including but not limited to any related attorney fees and City staff and administrative expenses, therefore immediately upon demand.

Dated: 05/05/15

Signed: 

William Williams
Printed Name

American Construction Engineers
Company

26375 Watts Valley Rd
Address

Tollhouse, CA 93667

CABRILLO POOL MAINTENACE UPGRADE

Technical Specifications

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DIVISIONS 3 & 9 TECHNICAL SPECIFICATIONS

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03200	CONCRETE REINFORCEMENT	pages
03201	SWIMING POOL CONCETE REINFORCEMENT	pages
03361	SWIMING POOL WET MIX SHOTCRETE.	pages
09882	FIBERGLASS	pages

SECTION 01010

SUMMARY OF WORK

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

- A. Drawings and General Conditions of the Contract including General and Supplementary Conditions, and Division 1 Specification Sections apply to this Section.

1.02 SUMMARY OF WORK:

- A. Work covered by contract documents comprises maintenance construction of a existing for the City of Sacramento as described in these documents.
- B. The Project is located in the City of Sacramento, on 1648 65th Ave., between Florin Rd and Freeport Blvd.
 - 1. The work consists of providing labor, materials, equipment, services, and administration required in conjunction with or incidental to the Project.
- C. The term "NIC" shall be construed to mean that construction work is not to be furnished, installed or performed by Contractor. The term shall mean "Not in this Contract"

1.03 CONSTRUCTION CONTRACT:

- A. Construct project under single lump sum contract.

1.04 CONSTRUCTION SEQUENCE:

- A. Contractor shall be responsible for sequencing of construction as shown in their approved Project Schedule. Contractor shall notify Owner (7) days in advance of any operations that may affect the owner's use of adjacent property and (14) days in advance of any construction work that affects the utilities of adjacent buildings on the site.

1.05 WORK RESTRICTIONS / STAGING:

- A. Due to the sensitive nature of the existing use of the site, the Contractor shall have the full use of the contract area during the construction period, except the areas coordinated during the pre-construction conference.
 - 1. City will designate an entrance to the Project site.
 - 2. Use of premises for work, storage and vehicular parking is limited to areas designated by City.
- B. Contractor shall assume responsibility for protection and safekeeping of the products stored on the site under this contract.
- C. This Contractor shall move stored products which interfere with any Owner operations, other Owner Contractors, or Owner access.
- D. Contractor shall conduct operations to ensure least inconvenience to public and occupied areas of the site.
- E. This Contractor shall obtain and pay for the use of additional storage or staging areas needed for operations.
- F. Do not load structure with weight that would jeopardize its safety.
- G. Should it be necessary to use portions of existing streets, sidewalks or right of ways for operations, this Contractor shall obtain approval and pay for the use of such areas in accordance with requirements of the authorities having jurisdiction.

1.06 SURROUNDING SITE CONDITION SURVEY

- A. Prior to commencement of Work, Contractor and City shall jointly survey the site and existing buildings, paving, plant life, and other items, noting and recording existing damage such as cracks, sags, loose materials and other existing damage.
- B. This record shall serve as a basis for determination of subsequent damage to these items due to settlement or movement due to demolition and construction operations.

- C. Such damage, as noted, shall be suitably marked on the item, if possible, and the official record of existing damage shall be signed by the parties making the survey.
- D. Cracks, sags or other damage to the site and adjacent buildings, paving and other items not noted in the original survey but subsequently observed shall be reported immediately

1.07 PROTECTION OF EXISTING STRUCTURES AND UTILITIES

- A. The Drawings show all known existing above and below grade structures; drainage lines; storm drains; sewers; water, gas, electrical and hot water lines; and other similar installations which are known to exist in the area of the Work.
- B. Locate these known existing installations before proceeding with excavation or other operations which may damage same; maintain them in service unless directed otherwise by the City; and repair damage to them caused by the performance of the work, at no increase in the Agreement Price.
- C. In addition to reporting, if a structure or utility is damaged, Contractor shall take appropriate action as provided in the Contract Documents.

1.08 OCCUPANCY OF THE WORK PRIOR TO FINAL ACCEPTANCE

- A. The City may use and occupy the building portion of the Work before formal acceptance under the following conditions:
 - 1. A Certificate of Substantial Completion will be prepared and executed as provided in the Contract Documents. The Certificate of Substantial Completion shall be accompanied by a written endorsement of the Contractor's insurance carrier and surety permitting occupancy by City during the remaining period of the work.
 - 2. Occupancy by City shall not be construed as being an acceptance of that part of the work to be occupied.
 - 3. Contractor will not be held responsible for any damage to the occupied part of the Work resulting from the City's occupancy.

4. Occupancy by the City shall not be deemed to constitute a waiver of existing claims in behalf of the City or Contractor against each other.
5. If required by the City for areas it has beneficially occupied, the Contractor shall make available, on a 24-hour-a-day, 7-day-a-week basis, utility services, heating, and cooling as are in condition to be put in operation when such beneficial use and occupancy occurs. The Contractor shall be responsible for the operation and maintenance of such equipment while it is so operated until the Work is completed in the occupied areas, at which time operation and maintenance of such equipment shall be assumed by the City.
6. Make an itemized list of each piece of equipment operated during beneficial occupancy, with the date operation commences. This list shall be the basis for the commencement of guarantee periods on the equipment being operated for the benefit of the City's occupancy.
7. The City will pay for the utility costs associated with its occupancy of portions of the work during construction.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

END OF SECTION 01010

SECTION 01025

PAYMENTS & MEASUREMENTS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

- A. Drawings and General Conditions of the Contract including General and Supplementary Conditions, and Division 1 Specification Sections apply to this Section.

1.02 SCHEDULE OF VALUES

- A. Type Schedule on form contained in the Contract Documents. Contractor's standard forms and automated printout will be considered for approval upon request. Identify schedule with: Project name and location, Contractor's name and address, all subcontractor's name, address and type of Work along with Submission date.
 - 1. List the installed value of the component parts of the Work broken down into sufficient detail to serve as a basis for computing values for progress payments during the performance of the Work. For example, in the case of drywall Work, identify components such as wallboard, accessories, taping and finishing.
 - 2. Follow the Specifications table of contents as the format for listing component items; identify each line item with the number and title of the respective Specification Section.
 - 3. For each major line item, list sub-values of products or operations.
 - 4. For the various portions of the Work:
 - a. Include a separate line item for the amount of overhead and profit drawn.
 - b. For portions of Work in excess of ten thousand dollars (\$10,000) in cost, separately identify labor and material costs.
 - 5. The sum of values listed in the Schedule of Values shall equal the total Construction Contract Sum. Design costs are to be identified separately.

1.02 APPLICATIONS FOR PAYMENT

- A. General: Submit Applications for Payment to the City Representative in accordance with the schedule established by the Contract Documents.
- B. Submit itemized applications on form contained in Contract Documents.
 - 1. Line items and dollar values shall be from the approved schedule of values.
 - 2. Include names, trades, and amounts for Subcontractors.
 - 3. Overhead and profit shall be a line item each month for Contractor and Sub-contractors.
- C. Preparation of Application for Each Progress Payment:
 - 1. On application form, fill in:
 - a. Required information, including Change Orders executed prior to application.
 - b. Summary of dollar values agreeing with the totals indicated on the Continuation Sheets.
 - c. Certify with the signature of an authorized agent of the Contractor's firm.
 - 2. Continuation Sheets:
 - a. Fill in total list of scheduled component items of Work with item number and the scheduled dollar value for each item.
 - b. Fill in the dollar value in each column for each scheduled line item when Work has been performed or products stored as approved. Round off values to nearest dollar, unless otherwise specified for the schedule of values.
 - c. List each Change Order executed prior to the date of submission at the end of the Continuation Sheets. List by Change Order Number, description, and breakdown of costs as for an original component item of Work.
- D. Substantiating Data for Progress Payments:
 - 1. When substantiating data are required, submit suitable information as specified in SECTION 01300 - SUBMITTALS with a cover letter identifying:

- a. Project Name and Number.
 - b. Application number and date.
 - c. Detailed list of enclosures.
 - d. For approved stored materials:
 - 1) Item number and identification as shown on application.
 - 2) Address of warehouse facility and copy of insurance documents for said facility.
 - 3) Description of specific material.
- E. Preparation of Application for Final Payment:
1. Fill in application form as specified for progress payments.
 2. Use Continuation Sheets for presenting the final statement of accounting.

PART 2 - PRODUCTS

Not Used.

PART 3 - EXECUTION

Not Used.

END OF SECTION 01025

SECTION 01030

ALTERNATES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

- A. Drawings and General Conditions of the Contract including General and Supplementary Conditions, and Division 1 Specification Sections apply to this Section.

1.02 REQUIREMENTS:

- A. Definition: An Alternate is defined as a portion of the work, which is priced separately, to be included in the Work at the Owners option.
- B. This section defines each Alternate by number, and describes the basic changes to be incorporated into the work, only when that alternate is made a part of the work by stipulated provisions in the owner Contractor agreement.
- C. Coordination:
 - 1. Include as a part of each alternate, devices, appurtenances, accessories and similar items incidental to or necessary for complete installation.
 - 2. Coordinate alternate with adjacent work and modify or adjust as necessary as approved by the architect, to ensure full integration.
- D. In addition to the Base Bid as provided on the Bid Form, the Contractor (Bidder) shall quote alternate prices in the blank spaces provided on the Bid Form under Alternate Bids.
- E. The Additive Alternate Bids increase the Scope of Work as defined by the Base Bid and represent additions to the amount of the Base Bid.
- F. The Deductive Alternate Bids decrease the Scope of Work as defined by the Base Bid and represent deductions to the amount of the Base Bid.

1.02 ALTERNATES:

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

END OF SECTION 01030

SECTION 01035

MODIFICATION PROCEDURES

PART 1 - GENERAL

1.01 REQUIREMENTS INCLUDED

- A. Promptly implement change order procedures.
 - 1. Provide full written data required to evaluate changes.
 - 2. Maintain detailed records of work done on a time-and-material/force account basis, submitted to the City on a daily basis.
 - 3. Provide full documentation to City on request.
- B. Designate in writing the member of Contractor's organization:
 - 1. Who is authorized to accept changes in the Work.
 - 2. Who is responsible for informing others in the Contractor's employ of the authorization of changes in the Work.
- C. City Project Manager is the person who is authorized to execute Change Orders.

1.02 RELATED REQUIREMENTS

- A. Agreement: The amounts of established unit prices.
- B. Section 01025: Payments & Measurements.
- C. Section 01311: Bar Chart.
- D. Section 01605: Substitution Request Form.

1.03 DEFINITIONS

- A. Construction Change Authorization: A written order to the Contractor, signed by City, which amends the Contract Documents as described, and authorizes Contractor to proceed with a change which affects the Agreement Sum and/or the Agreement Time, for inclusion in a subsequent Change Order.
- B. Supplemental Instructions: A written order, instructions, or interpretations, signed by City making minor changes in the Work not involving a change in Agreement Sum or Agreement Time.

1.04 PRELIMINARY PROCEDURES

- A. City may initiate changes by submitting a Proposed Change Order (PCO) to Contractor which may include:
 - 1. Detailed description of the Change, Products, and location of the change in the Project.
 - 2. Supplementary or revised Drawings and Specifications.
 - 3. A specific statement as to whether overtime work is, or is not, authorized.
 - 4. A specific period of time during which the requested price will be considered valid.
 - 5. Such request(s) are for information only, and **are not an instruction to execute the changes, nor to stop Work in progress.**
- B. Contractor may initiate changes by submitting a written notice to City, containing:
 - 1. Description of the Request For Change (RFC).
 - 2. Statement of the reason for making the changes.
 - 3. Statement of the effect on the Agreement Sum and/or the Agreement Time.
 - 4. Statement of the effect on the work of separate contractors.

Documentation supporting any change in Agreement Sum or Agreement Time, as appropriate.

Copy of the Change Order Proposal Summary form.

1.05 CONSTRUCTION CHANGE AUTHORIZATION

- A. In lieu of a PCO, City may issue a construction change authorization for Contractor to proceed with a change for subsequent inclusion in a Change Order.
- B. Authorization will describe changes in the Work, both additions and deletions, with attachments of revised Contract Documents to define details of the change, and will designate the method of determining any change in the Agreement Sum and any change in Agreement Time.
- C. City will sign and date the Construction Change Authorization as authorization for the Contractor to proceed with the changes.
- D. Contractor will sign and date the Construction Change Authorization to indicate agreement with the terms therein.

1.06 DOCUMENTATION OF PROPOSALS AND CLAIMS

- A. Support each quotation for a lump-sum proposal, and for each unit price which has not previously been established, with sufficient substantiating data to allow City to evaluate the quotation.
- B. On request provide additional data to support time and cost computations:
 - 1. Labor required.

2. Equipment required.
 3. Products required.
 - a. Recommended source of purchase and unit cost.
 - b. Quantities required.
 4. Taxes, insurance and bonds.
 5. Credit for work deleted from Agreement, similarly documented.
 6. Justification for any change in Agreement Time.
- C. Support each claim for additional costs, and for work done on a time-and-material/force account basis, with documentation as required for a lump-sum proposal, plus additional information:
1. Name of the City's authorized agent who ordered the work, and date of the order.
 2. Dates and times work was performed, and by whom.
 3. Time record, summary of hours worked, and hourly rates paid.
 4. Receipts and invoices for:
 - a. Equipment used, listing dates and times of use.
 - b. Products used, listing of quantities.
 - c. Subcontracts.
- D. Document requests for substitutions for Products as specified in Section 01600.
- E. Include a copy of the Change Order Proposal Summary – EZ-PCO” for each separate proposal.

1.07 PREPARATION OF CHANGE ORDERS

- A. City will prepare each Change Order.
- B. Change Order will describe changes in the Work, both additions and deletions, with attachments of revised Contract Documents to define details of the change.
- C. Change Order will provide an accounting of the adjustment in the Agreement Sum and in the Agreement Time.

1.08 LUMP-SUM/FIXED PRICE CHANGE ORDER

- A. Content of Change Orders will be based on, either:
 1. PCO and Contractor's responsive Proposal as mutually agreed between City and Contractor.
 2. RFC as accepted by City.
 3. Construction Change Authorization with supporting documentation.

- B. Contractor will sign and date the Change Order to indicate agreement with the terms therein.
- C. City will sign and date the Change Order as authorization for the Contractor to proceed with the changes.

1.09 UNIT PRICE CHANGE ORDER

- A. The amounts of the unit prices to be:
 - 1. Those stated in the Agreement.
 - 2. Those mutually agreed upon between City and Contractor.
- B. When quantities of each of the items affected by the Change Order can be determined prior to start of the work:
 - 1. City will sign and date the Construction Change Authorization as authorization for Contractor to proceed with the changes.
 - 2. Contractor will sign and date the Construction Change Authroization to indicate agreement with the terms therein.
- C. When quantities of the items cannot be determined prior to start of the work:
 - 1. City will issue a Construction Change Authorization directing Contractor to proceed with the change on the basis of unit prices and will cite the applicable unit prices.
 - 2. At completion of the change, City will determine the cost of such work based on the unit prices and quantities used.
 - a. Contractor shall submit documentation to establish the number of units of each item and any claims for a change in Agreement Time.
 - 3. City and Contractor will sign and date the Change Order to indicate their agreement with the terms therein.
 - 4. City will sign and date the Change Order to establish the change in Agreement Sum and in Agreement Time.

1.10 TIME AND MATERIAL/FORCE ACCOUNT CHANGE ORDER/CONSTRUCTION CHANGE AUTHORIZATION

- A. City will issue a Construction Change Authorization directing Contractor to proceed with the changes.
- B. At completion of the change, Contractor shall submit itemized accounting and supporting data as provided in the "Documentation of Proposals and Claims" of this Section.
- C. City will determine the allowable cost of such work, as provided in General Conditions and Supplementary Conditions.
- D. City and Contractor will sign and date the Change Order to indicate their agreement therewith.
- E. City will sign and date the Change Order to establish the change in Agreement Sum and in Agreement Time.

1.11 CORRELATION WITH CONTRACTOR' S SUBMITTALS

- A. Revise Schedule of Values and Request for Payment forms to record each change as a separate item of Work, and to record the adjusted Agreement Sum.
- B. Revise the Construction Schedule to reflect each change in Agreement Time.
 - 1. Revise schedules to show changes for other items of work affected by the changes.
- C. Upon completion of work under a Change Order, enter pertinent changes in Record Documents.

1.12 CHANGE ORDER PROPOSAL SUMMARY - EZ-PCO

- A. Whenever a change, modification or alteration is being evaluated by the City ,requiring a change in cost, the contractor shall prepare a copy of the "Change Order Proposal Summary – EZ-PCO" for each unique change, modification or alteration.
- B. Compensation for markups shall be limited to the application of percentages outlined in the "Instructions – Change Order Proposal Summary - EZ-PCO".

PART 2 - PRODUCTS

Not Used.

PART 3 - EXECUTION

Not Used.

----- END OF SECTION -----



DEPARTMENT OF
GENERAL SERVICES
FACILITY DEVELOPMENT

CITY OF SACRAMENTO
CALIFORNIA

5730 – 24TH STREET
BUILDING ONE
SACRAMENTO, CA
95822-3699
PH: 916-808-1888

CHANGE ORDER REQUEST / PROPOSAL

TO: _____

ATTENTION:

SUBJECT:

**CHANGE ORDER
REQUESTED BY:**

- Owner
- Architect
- Engineer
- Contractor
- Inspector
-

The following items, transmitted herewith, are subject to all provisions of the plans, specifications and addenda:

- Submit cost and time change date for approval prior to proceeding with the work.
- Your proposal is approved. A change order will be issued for the agreed to sum.
- Your proposal is rejected. Please proceed with the work on a Time and Material basis, and a change order will be issued upon verification of completed work.
- Your proposal is rejected.

DESCRIPTION: _____

COPIES	DATE	NO.	DESCRIPTION
cc: <input type="checkbox"/> Consultant			Initiated By: _____
<input type="checkbox"/> Inspector			Title: _____
<input type="checkbox"/> File			Date: _____

Change Order Proposal Summary - EZ-PCO

1. Labor _____
2. Materials _____
3. Equipment _____
4. Subtotal _____

5. Subcontract Cost
 - a _____
 - b _____
 - c _____
 - d _____
 - e _____
6. Subtotal Subcontractors _____
7. Markup on Proposer's Costs _____
 If Line 4 is >0, enter (0.25 x Line 4)
 If Line 4 is <0, enter (0.15 x Line 4) as a credit
8. Markup on Sub Cost (Prime Only) _____
 If Line 6 is >0, enter (0.05 x Line 6)
 If Line 6 is <0, enter \$0
 If subcontractor summary, enter \$0
9. Total Proposal \$ _____
 Line 4 + line 6 + line 7 + line 8.
10. Proposed Time Extension (Prime Only) _____ days
 (If schedule analysis and justification is not attached, enter zero.)

Project Number _____ Date _____

Company _____ PCO# _____

Summary For: Contractor _____

Subcontractor _____

Attach supporting documents with detailed cost breakdowns. Attach this form to each subcontractor proposal.

Instructions - Change Order Proposal Summary - EZ-PCO

Contractor shall complete and attach this form as a cover sheet for each price proposal for the prime contractor and for subcontractor proposals at any tier forming a part of the prime proposal.

Lines 1, 2, and 3. Authorized allowable labor, materials, and equipment by the firm performing the work and proposing the costs, whether prime or subcontractor. Include only costs directly and solely attributable to work described in the PCO. Do not include the types of cost listed as "indirect/overhead" below. See GC Section 7.6 through 7.8.

Line 5. Authorized allowable costs proposed by subcontractors at the next lower tier. See GC Section 7.9.

Line 7. For added work, see GC Section 7.10.1 A credit of 15% for markup is applied to net credit costs at the contractor or subcontractor tier at which the costs occur, see GC Section 7.10.3.

Line 8. The aggregate of markups made at subcontract tiers shall not exceed 25%. See GC Section 7.9. No markup for intermediate subcontractors. See GC Section 7.10.2.

Do Not Include indirect and overhead costs in lines 1 through 4. The following list is not inclusive and serves only to present examples of the types of costs, which are included in allowable markups:

Salaries and Benefits

Principal Officer, Project Manager, Superintendent, General Foreman, Quality Control Representative, Estimator, Negotiator, Office Manager, Clerical, Receptionist.

Facilities

Office rental/depreciation: Storage trailer, Warehouse, Shops, Toilets, Washrooms, Yard, Temporary electric panel and circuits, Temporary lighting, Temporary plumbing & drainage, Transportation, connection, setup, installation, and removal charges, Cost of Facilities Capital.

Utility Expense

Electricity, gas, water, telephone, Janitorial, Trash removal and dump fees, Sanitary pump out.

Office Equipment & Vehicles

Personnel transport vehicle (car, pickup), General delivery vehicle, Company car, Yard equipment and machinery: Depreciation, Fuel, oil, filters, tires, maintenance, repairs; Storage Bins, Dumpsters, Computer, Fax machine, Refrigerator, Coffee machine, Audio and video recorders, Cameras, Shoring.

Office Furnishings

Desks, tables, chairs, lamps, file cabinets, credenzas, bookcases, carpeting, draperies, dividers.

Small Tools

Shovels, pry bars, hammers, nail gun, screw gun, Hilti, skillsaw, cutoff saw, hacksaw, pliers, snips, torches, hand drills, come-alongs, wrenches, calk guns, tape measures, levels, chalk lines, conduit bender, fish tape, water hose, etc.

Consumables

Paper, pens, pencils, office supplies, reusable lumber and form materials, tarpaulins, drinking cups, and toilet paper.

Safety Equipment

Ear protection, goggles, respirators, safety belts, first aid supplies, fire extinguishers.

Material Delivery, Offloading, and Handling Expense

General Office Expense

Bid preparation, Payment and performance bonds, Estimating, Planning, Marketing, Public relations, Entertainment, Safety and Security, Professional, Business, Contractor's license fees, Employee recruitment, termination, transportation, and relocation, Professional service fees, legal fees, court costs, litigation, arbitration. Idle facilities and capacity, Losses on contracts, Security, Transportation costs, Contributions and donations, General coverage, liability Insurance, Project general coverage insurance, Corporate Income Taxes, Stock and Bond dividends, Debt principal and interest payments; Jobsite cleanup, Mobilization and demobilization.

Change Order Administrative Expense

Takeoff & estimate, Proposal preparation & transmittal, Negotiation, Distribution, General supervision, Billing, Quality Control, Schedule update, As-Built update, Bond and Insurance Adjustment.

SECTION 01040

COORDINATION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

- A. Drawings and General Conditions of the Contract including General and Supplementary Condition, and Division 1 Specification Sections apply to this Section.

1.02 SUMMARY

- A. Coordinate the Work; do not delegate the responsibility for coordination to any Subcontractor.
- B. This Contractor shall resolve differences or disputes concerning coordination, interference, or extent of Work of the various sections, and trades.

1.03 COORDINATION

- A. Coordinate scheduling, submittals and Work of the various Specification Sections to assure efficient and orderly sequence of installation of interdependent construction elements.
- B. Coordinate completion and clean up of all Work in preparation for Substantial Completion.
- C. Coordinate access to site for correction of defective Work and Work not in accordance with the Contract Documents to minimize disruption of Owner's activities.

1.04 ELECTRICAL AND MECHANICAL COORDINATION

- A. Verify that utility requirement characteristics of operating equipment are compatible with proposed building utilities. Coordinate work of all Sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.
- B. Coordinate space requirements and installation of underground and piping work that are indicated diagrammatically on Drawings. Follow routing shown for pipes, ducts, and conduit, as closely as practicable; place runs parallel with line of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance and for repairs.
- C. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. This includes identified "Conduit or Pipe Runs for Future Equipment". Coordinate locations of fixtures and outlets with finish elements.

1.04 COORDINATION DRAWINGS

- A. Prepare coordination drawings, if required, and submit prints of the drawings before beginning fabrication or delivery of materials to the Project site. The prints will not be reviewed or approved, but will be received as an indication that the Contractor has performed coordination functions.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

END OF SECTION 01040

SECTION 01044

CONTRACTOR'S REQUESTS FOR INFORMATION / INTERPRETATION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, and other Division 1 Specification Sections, apply to this Section.

1.02 DESCRIPTION

- A. Section Includes: Administrative requirements for requests for information / interpretation.

1.03 DEFINITIONS

- A. Request For Information / Interpretation (RFI):
1. A document submitted through Construction Manager requesting clarification of a portion of the Contract Documents, hereinafter referred to as RFI.
 2. A properly prepared request for information / interpretation shall include a detailed written statement that indicates the specific Drawing(s) or Specification(s) in need of clarification and the nature of the clarification requested.
 - a. Drawings shall be identified by Drawing number and location on the Drawing sheet.
 - b. Specifications shall be identified by Section number, page and paragraph.
 - c. Requests for Information: Request made by Contractor concerning information not indicated on Drawings nor contained in Project Manual that is required to properly perform the work.
 - d. Requests for Interpretation: Request made by Contractor in accordance with the Contract for construction.
- B. Improper RFI's:
1. RFI's that are not properly prepared.
 2. Improper RFI's will be rejected by the Architect. The Contractor will be notified by the Architect upon rejection of improper RFI's.

- C. Frivolous RFI's:
 - 1. RFI's which request information that is clearly shown on the Contract Documents.
 - a. Frivolous RFI's will be returned unanswered.
- D. Neither improper nor frivolous RFI's will be allowed as basis for Change Orders claiming additional costs and/or time extensions.

1.04 CONTRACTOR'S REQUESTS FOR INFORMATION

- A. RFI's shall be submitted on Document 01044-4 – Request for Information / Interpretation included at the end of this Section.
 - 1. Forms shall be completely filled in, and if prepared by hand, shall be fully legible after photocopying or transmission by facsimile (fax).
 - 2. RFI's shall be submitted in numerical order with no breaks in the consecutive numbering.
 - 3. Each page of attachments to RFI's shall bear the RFI number and shall be consecutively numbered in chronological order.
 - 4. RFI's shall be submitted by fax.
 - a. Submittal by fax is the preferred method of submittal.
 - b. Telephone # for faxing is (916) 808-8337 this goes to the City's Project Manager first, then it is forwarded to the Architect. Additional information on the lines of communication will be discussed at the Pre-Construction Conference.
- B. When the Architect is unable to determine from the Contract Documents the material, process or system to be installed, the Owner's Representative shall be requested to make a clarification of the indeterminate item.
 - 1. Wherever possible, such clarification shall be requested at the next appropriate project meeting, with the response entered into the meeting minutes. When clarification at the meeting is not possible, either because of the urgency of the need, or the complexity of the item, the Contractor shall prepare and submit an RFI.
- C. The Contractor shall endeavor to keep the number of RFI's to a minimum. In the event that the process becomes unwieldy, in the opinion of the Owner's Representative, because of the number and frequency of RFI's submitted, the Owner's Representative may require the Contractor to abandon the process and submit future requests as either submittals (within 30 days of Notice to Proceed), substitutions or requests for change.

- D. RFI's shall be originated by the Contractor.
1. RFI's from contractors or material suppliers shall be submitted through, reviewed by, and signed by the Architect prior to submittal to the Owner's Representative.
 2. RFI's from contractors or material suppliers sent directly to the Owner's Representative, or the Architect's consultants shall not be accepted and will be returned unanswered.
- E. The Contractor shall carefully study the Contract Documents to assure that the requested information is not available therein. RFI's that request information available in the Contract Documents will be deemed either "improper" or "frivolous" as noted above.
- F. In the cases where RFI's are issued to request clarification of coordination issues, for example, pipe and duct routing, clearances, specific locations of work shown diagrammatically, and similar items, the Contractor shall fully lay out a suggested solution using drawings or sketches drawn to scale, and submit same with the RFI. RFI's which fail to include a suggested solution will be returned unanswered with a requirement that the Contractor submit a complete request.
- G. RFI's shall not be used for the following purposes:
1. To request approval of submittals,
 2. To request approval of substitutions,
 3. To request changes which are known to entail additional cost or credit. (A Change Order Request form shall be used.)
 4. To request different methods of performing work than those drawn and specified.
- H. In the event the Contractor believes that a clarification by the Architect results in additional cost or time, Contractor shall not proceed with the work indicated by the RFI until a Change Order (or Construction Change Directive, if applicable to project) is prepared and approved. RFI's shall not automatically justify a cost increase in the work or a change in the project schedule.
1. Answered RFI's shall not be construed as approval to perform extra work.
 2. Rejected RFI's will be returned with a stamp or notation: Rejected.
- I. The Contractor shall prepare and maintain a log of RFI's, and at any time requested by the Owner's Representative, Contractor shall furnish copies of

the log showing outstanding RFI's. The Contractor shall note unanswered RFI's in the log.

- J. The Contractor shall allow up to 7 working days review and response time for RFI's, unless review is required of multiple consultants, then the review and response period shall be 10 working days.
1. The Architect will endeavor to respond in a timely fashion to RFI's.
 2. RFI shall state requested date/time for response to help prioritize requests; however, this requested date/time for response is not a guarantee that the RFI will be answered by that date/time if that date/time is deemed inadequate or insufficient.

1.05 ARCHITECT'S RESPONSE TO RFI'S

- A. The Architect and/or Owner's Representative will respond to RFI's on one of the following forms:
1. Properly prepared RFI's:
 - a. Response directly upon RFI form.
 - b. Architect's Supplemental Instruction.
 - c. Request for Proposal.
 2. Improper or Frivolous RFI's: Rejected RFI's will be returned with a stamp or notation: Rejected.
 3. Answers to properly prepared RFI's may or may not be made directly upon the RFI form as deemed appropriate by the Owner's Representative and/or the Architect.
- B. The Owner's Representative and/or the Architect may opt to retain RFI's for discussion during regularly scheduled project meetings for inclusion of responses in meeting minutes in lieu of responding on a written form.

PART 2 - PRODUCTS

NOT APPLICABLE.

PART 3 - EXECUTION

NOT APPLICABLE.

END OF SECTION 01044

REQUEST FOR INFORMATION / INTERPRETATION

Project: City of Sacramento R.F.I. Number: _____

Project Name From: _____

To: _____ Date: _____

Fax: _____

City Project Number: _____

Specification Section: Paragraph: Drawing Reference: Detail

Request/Recommendation:

* Requested Date/Time for Response:
(The undersigned acknowledges review of Section 01044 in its entirety.)

Signed by: _____

Response:

Attachments

Response From: To: * Date Rec'd: * Date Ret'd:

Signed by: _____

Copies: Owner _____ _____ File

* Contractor shall allow up to 7 working days review and response time for RFI's, unless review is required of multiple consultants, then the review and response period shall be 10 working days. (See Section 01044.)

SECTION 01045

CUTTING AND PATCHING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

- A. Drawings and General Conditions of the Contract including General and Supplementary Conditions, and Division 1 Specification Sections apply to this Section.

1.02 DESCRIPTION:

- A. Work Included: This Section establishes general requirements pertaining to cutting, fitting, and patching of the work required to:
 - 1. Make the several parts fit properly.
 - 2. Uncover work to provide for installation, inspection, or both of ill-timed work.
 - 3. Remove and replace work not conforming to requirements of the Contract Documents.
 - 4. Remove and replace defective work.

1.03 QUALITY ASSURANCE

- A. Perform all cutting and patching in accordance with pertinent requirements of the specifications and in the event no such requirements are determined, in conformance with the City Representative's written direction.
- B. In all cases, exercise extreme care in cutting operations and perform such operations under adequate supervision by competent mechanics skilled in the applicable trade. Openings shall be neatly cut and shall be kept as small as possible to avoid unnecessary damage. Careless and/or avoidable cutting damage, etc., will not be tolerated, and the Contractor will be held responsible for such avoidable or willful damage.
- C. All replacing, patching, and repairing of materials and surfaces cut or damaged in the execution of the work shall be performed by experienced mechanics of the several trades involved. Such replacing, repairing, and/or patching shall be done with the applicable materials, in such a manner that all surfaces so replaced, etc., will upon completion of the work, match the surrounding similar surfaces.

- D. It is the responsibility of the contractor to verify the condition of all existing surfaces and finishes. i.e. fiberglass lining and remove and replace per manufacturer standards, best industry practice or as directed by City Representative. City's representative will make the final determination.

1.04 SUBMITTALS

- A. Request for the City Representative Consent:
 - 5. Prior to cutting which may or may not effect the structural safety, submit a written request to the City Representative for permission to proceed with cutting.
 - 6. Should conditions of the work, or schedule, indicate a required change of materials or methods for cutting and patching, notify the City Representative's and secure his written permission prior to proceeding.
- B. Notices to the City:
 - 1. Submit written notice to the City Representative designating the time the work will be uncovered, therefore providing a time for the Architect's observation.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. For replacement of work removed, use materials which comply with each pertinent Section of these specifications.

PART 3 - EXECUTION

3.01 CONDITIONS

- A. Inspect existing conditions, including elements subject to movement or damage during cutting and patching.
- B. After uncovering the work, inspect conditions affecting installation of new work.

3.02 DISCREPANCIES

- A. If uncovered conditions are not as anticipated, immediately notify the City and secure needed directions.

- B. Do not proceed in areas of discrepancy until all such discrepancies have been fully resolved.
- C. Provide all required protection including, but not necessarily limited to, shoring, bracing, and support to maintain structural integrity of the work.
- D. Beginning of cutting or patching means acceptance of existing conditions.

3.03 PREPARATION

- A. Provide temporary supports to ensure structural integrity of existing material. Provide devices and methods to protect other portions of Facility from damage.
- B. Provide protection from elements for areas which may be exposed by uncovering work.

3.04 PERFORMANCE

- A. Perform cutting and demolition by methods which will prevent damage to other portions of the work and will provide a proper surface to receive new installation or repair and new work. Perform fitting and adjustment of products to provide finished installation complying with the specified tolerance and finishes.

END OF SECTION 01045

SECTION 01048

ELECTRONIC DRAWINGS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and General Provisions of Contract, including Conditions of the Contract and Division 1 Specifications, apply to this Section.

1.02 SUMMARY

- A. The City's Architect, if requested, will provide the Contractor with one electronic copy of the Contract Document Drawings for distribution to subcontractors and suppliers as a convenience in the preparation of Shop Drawings and Site Work. The electronic copy will be provided on a compact disk in AutoCad format.
- B. The Architect shall be paid a service fee of \$250.00 in accordance with the Agreement. This fee shall be paid by the Contractor immediately upon acceptance of the CD.
- C. A signed and fully completed agreement must be submitted to formally request any electronic files.
 - 1. No additional fee's are required if a contactor shares those files with sub-contractors/vendors, however signed agreements for the release of those files must be received by the architect prior to their release.

1.03 REFERENCES

- A. A copy of the Agreement is included at the end of this Section.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

END OF SECTION 01048

SECTION 01090

DEFINITIONS AND REFERENCE STANDARDS

PART 1 GENERAL

1.01 DEFINITIONS

- A. General Requirements: The provisions or requirements of Division - 1. General Requirements apply to entire Work and to other elements that are included in the project.
- B. Indicated: The term "Indicated" is a cross-reference to details, notes or schedules on Drawings, to other paragraphs or schedules in the Specifications and to similar means of recording requirements in Contract Documents. Where terms such as "shown", "noted", "scheduled" and "specified" are used in lieu of "indicated", it is for purpose of helping reader locate cross-reference and no limitation of location is intended except as specifically noted.
- C. Directed, Requested, etc.: Where not otherwise explained, terms such as "directed", "requested", "authorized", "selected", "approved", "required", "accepted" and "permitted" mean "directed by City's Representative", "requested by City's Representative ", etc. However, no such implied meaning will be interpreted to extend City's Representative responsibility into Contractor's area of construction supervision.
- D. Approve: Where used in conjunction with City's Representative response to submittals, requests, applications, inquiries, reports and claims by Contractor, the meaning of term "approved" will be held to limitations of City's Representative responsibilities and duties as specified in General and Supplementary Conditions. In no case will "approval" by City's Representative be interpreted as a release of Contractor from responsibilities to fulfill requirements of Contract Documents.
- E. Furnish: Except as otherwise defined in greater detail, term "furnish" is used to mean supply and deliver to project site, ready for unloading, unpacking, assembly, installation, as applicable in each instance.
- F. Provide: Except as otherwise defined in greater detail, term "provide" means furnish and install, complete and ready for intended use, as applicable in each instance.
- G. Installer: The entity (person or firm) engaged by Contractor or its subcontractor or sub-subcontractor for performance of a particular unit of work at project site, including installation, erection, application and similar

required operations. It is a general requirement that such entities (installers) be expert in operations they are engaged to perform.

1.02 QUALITY ASSURANCE

- A. For products specified by association, trade or Federal Standards, comply with requirements of the standard, unless more rigid requirements are specified or required by applicable codes.
- B. The date of the standard is that which is in effect as of the Proposal date, or date of Owner-Contractor Agreement when there are no bids, except when a specific date is specified.
- C. When required by individual Specifications section, obtain copy of standard. Maintain copy during submittals, planning and progress of the specific work, until substantial completion.

1.03 SCHEDULE OF REFERENCES

Abbreviations and Names: The following acronyms or abbreviations as referenced in Contract Documents are defined to mean the associated names. Both names and addresses are subject to change, and are believed to be, but are not assured to be, accurate and up-to-date:

AA	Aluminum Association 818 Connecticut Ave. NW; Washington DC 20006; 202/862-5100
AAMA	Architectural Aluminum Manufacturers Association Suite 18, 2700 River Road, Des Plaines, IL 60018; 312/699-7310
ACI	American Concrete Institute Box 19150 Redford Stat.; Detroit, MI 48219; 313/532-2600
ADC	Air Diffusion Council 435 N. Michigan Ave.; Chicago, IL 60611; 312/527-5494
AGA	American Gas Association 1515 Wilson Blvd.; Arlington, VA 22209; 703/841-8400
AI	Asphalt Institute Asphalt Inst. Bldg.; College Park, MD 20740; 301/277-4258
AISC	American Institute of Steel Construction 400 N. Michigan Ave. Chicago, IL 60611; 312/670-2400

- AISI American Iron and Steel Institute
1000 16th St., NW; Washington, DC 20036; 202/452-7100
- AITC American Institute of Timber Construction
333 W. Hampden Ave.; Englewood, CO 80110; 303/761-3212
- AMCA Air Movement and Control Association
30 W. University Dr.; Arlington Heights, IL 60004; 312/294-0150
- ANSI American National Standards Institute
1430 Broadway; New York, NY 10018; 212/354-3300
- APA American Plywood Association
P.O. Box 11700; Tacoma, WA 98411; 206/565-6600
- ARI Air Conditioning and Refrigeration Institute
1815 N. Fort Myer Dr.; Arlington, VA 22209; 703/524-8800
- ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers;
1791 Tullie Circle NE; Atlanta, GA 30329; 404/636-8400
- ASME American Society of Mechanical Engineers
345 East 47th St.; New York, NY 10017; 212/644-7722
- ASPE American Society of Plumbing Engineers
15233 Ventura Blvd.; Sherman Oaks, CA 91403; 213/783-4845
- ASTM American Society for Testing and Materials
1916 Race St.; Philadelphia, CA 19103; 215/299-5400
- AWPA American Wood-Preservers' Association
7735 Old Georgetown Rd.; Bethesda, MD 20014; 301/652-2109
- AWPB American Wood Preservers Bureau
2772 S. Randolph St.; Arlington, VA 22206; 703/931-8180
- AWS American Welding Society
550 LeJune Rd.; Miami, FL 33135; 304/642-7090
- CBC California Building Code or CRC-California Code of Regulations, Title 24
California Building Standards Commission
1130 K Street, suite 101; Sacramento, CA 95814
- CISPI Cast Iron Soil Pipe Institute
1499 Chain Bridge Rd.; McLean, VA 22101; 703/827-9177
- CRSI Concrete Reinforcing Steel Institute

180 North LaSalle St.; Chicago, IL 60601; 312/372-5059

- CS Commercial Standard of NBS (U.S. Dept. of Commerce)
Government Printing Office; Washington, DC 20402
- FGMA Flat Glass Marketing Association
3310 Harrison; Topeka, KS 66611; 913/266-7013
- FM Factory Mutual Engineering Corp.
1151 Boston-Providence Turnpike; Norwood, MA 02062; 617/762-4300
- FS Federal Specification (General Services Admin.)
Bldg. 197, Washington Navy Yard, SE; Washington DC 20407
- GA Gypsum Association
1603 Orrington Ave.; Evanston, IL 60201; 312/491-1744
- HPMA Hardwood Plywood Manufacturers Association
P.O. Box 2789; Reston, VA 22090; 703/435-2900
- MCAA Mechanical Contractors Association of America
5530 Wisconsin Ave.; Washington, DC 20015; 202/654-7960
- MLSFA Metal Lath/Steel Framing Association
221 N. LaSalle St.; Chicago, IL 60601; 312/346-1600
- NBS National Bureau of Standards (U.S. Dept. of Commerce)
Gaithersburg, MD 20234
- NCMA National concrete Masonry Association
P.O. Box 781; Herndon, VA 22070; 703/435-4900
- NEC National Electrical Code (by NFPA)
- NECA National Electrical Contractors Association
7315 Wisconsin Ave.; Washington, DC 20014; 202/657-2110
- NEMA National Electrical Manufacturers Association
2101 L St. NW; Washington, DC 20037; 202/457-8400
- NFPA National Fire Protection Association
Batterymarch Park; Quincy, MA 02269; 617/328-9230
- NRCA National Roofing Contractors Association
8600 Bryn Mawr Ave.; Chicago, IL 60631; 312/693-0700

- NSF National Sanitation Foundation
3475 Plymouth Rd; Ann Arbor, MI 48106; 313/769-8010
- NWMA National Woodwork Manufacturers Association
205 West Touhy Ave.; Park Ridge, IL 60068; 312/823-6747
- OSHA Occupational Safety Health Administration (U.S. Dept. of Labor)
Government Printing Office; Washington, DC 20402
- PDI Plumbing and Drainage Institute
5342 Blvd. Pl.; Indianapolis, IN 46208; 317/251-5298
- PS Product Standard of NBS (U.S. Dept. of Commerce)
Government Printing Office; Washington, DC 20402
- SCPI Southern California Plastering Institute
3127 Los Feliz Blvd.; Los Angeles, CA. 90039; 213/663-2213
- SDI Steel Door Institute
712 Lakewood Cnt. N.; Cleveland, OH 44107; 216/226-7700
- SMACNA Sheet Metal & Air Conditioning Contractors
National Association; 8224 Old Courthouse Rd.; Vienna, VA 22180;
703/790-9890
- TCA Tile Council of America
P.O. Box 326; Princeton, NJ 08540; 609/921-7050
- UL Underwriters Laboratories
333 Pfingsten Rd.; Northbrook, IL 60062; 312/272-8800
- WCLIB West Coast Lumber Inspection Bureau
(Grading Rules); P.O. Box 2315; Portland, OR 97223; 503/639-0651
- WIC Woodwork Institute of California
1833 Broadway; Fresno, CA 93773; 209/233-9035
- WRI Wire Reinforcement Institute
7900 Westpark Drive; McLean, VA 22102; 703/790-9790

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

END OF SECTION 01090

SECTION 01200

MEETINGS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

- A. Drawings and General Conditions of the Contract including General and Supplementary Conditions, and Division 1 Specification Sections apply to this Section.

1.02 DESCRIPTION:

- A. Project Meetings are held to enable an orderly review of the work as it progresses on a periodic basis (weekly). It also provides an opportunity for systematic discussion of cost, schedule, problems and solutions. The City's Representative will conduct project meetings throughout the construction period.
- B. The Contractor's relationship with his subcontractors and materials suppliers, and discussions relative thereto, are the Contractor's responsibility and are not a part of project meetings content.
- C. Persons designated by the Contractor to attend and participate in the project meetings shall have all required authority to commit the Contractor to solutions agreed upon in the project meetings.

1.03 MEETING RESPONSIBILITIES:

- A. To the maximum extent practicable, advise the City Representative at least three (3) working days in advance of project meetings regarding all items to be added to the agenda.
- B. The Contractor will compile minutes of each project meeting and will furnish copies to the City for review and corrections. The Contractor may make and distribute such other copies as he wishes.

PART - 2 EXECUTION:

2.01 MEETING SCHEDULE:

- A. Except as noted below the pre-construction meeting, project meetings will be held on a weekly basis or more frequently if required. Meeting dates and times will be coordinated in an effort to allow all parties whose participation is essential.

2.02 MEETING LOCATION:

- A. To the maximum extent practicable, meetings will be held at the job site.

2.03 PRECONSTRUCTION MEETING:

- A. The City representative will conduct the pre-construction meeting which shall be scheduled within 5 (5) days after the Notice to Proceed has been issued. It will be attended by authorized representatives of the Contractor, all major Subcontractors, and other interested parties.
- B. Minimum Agenda: Distribute data on, and discuss:
 - 1. Organizational arrangement of Contractor's forces and personnel, personnel of subcontractors, materials and suppliers.
 - 2. Channels and procedures for communications.
 - 3. Construction schedule, including sequence of critical work. A three week schedule will be prepared and updated for each project meeting and utilized by the Contractor as well as the overall project schedule.
 - 4. Contract Documents, including distribution of required copies of original Documents and revisions.
 - 5. Processing of Shop Drawings and other data submitted to the City representative for review. Contractor to provide list of major equipment deliveries and priorities.
 - 6. Project coordination
 - 7. Processing of field decisions and Change Orders.
 - 8. Rules and regulations governing performance of the Work.

9. Procedures and responsibilities regarding Project Record Documents.
10. Procedures and responsibilities regarding operations and maintenance information and training City's personnel.
11. Procedures for safety and first aid, security, quality control, housekeeping, and other related matters.
12. Personnel Resumes.
13. Construction Phasing and Cash Flow.
14. Placement of Temporary Facilities and Utilities.
15. Security Procedures
16. Schedule of Major Equipment Suppliers.

2.04 BILLING MEETINGS:

- A. Contractor shall schedule and hold a billing meeting at least five days prior to the end of each pay period for the purpose of agreeing on the percentage of the Work completed up to that date and establishing the amount to be requested in the Application for Payment.
- B. Location: As arranged and agreed to by attendees.
- C. Attending shall be City's representative, Inspector and Contractor's Superintendent and others as needed.
- D. Following the billing meeting, prepare formal Application for Payment on City designated forms, and submit to City's representative for certification and approval

2.05 PRE-INSTALLATION MEETINGS:

- A. The Contractor shall conduct a pre-installation meeting at the site before each construction activity that requires coordination with other construction. The Installer and representatives of manufacturers and fabricators involved in or affected by the installation, and its coordination or integration with other materials and installations that have preceded or will follow, shall attend the meeting. Advise the City's representative of scheduled meeting dates.

- B. Review the progress of other construction activities and preparations for the particular activity under consideration at each pre-installation conference, including requirements for:
 - 1. Contract Documents.
 - 2. Shop Drawings, Product Data and quality control Samples.
 - 3. Compatibility problems.
 - 4. Time schedules.
 - 5. Weather limitations.
 - 6. Manufacturers recommendations.
 - 7. Compatibility of materials.
 - 8. Acceptability of substrates.
 - 9. Governing regulations.
 - 10. Safety.
 - 11. Inspection and testing requirements.
 - 12. Required performance results.
 - 13. Recording requirements.
 - 14. Protection.

- C. The Contractor shall record significant discussions and agreements and disagreements of each meeting, along with the approved schedule. Distribute the record of the meeting to everyone concerned, promptly, including the City's Representative.

- D. Do not proceed if the meeting cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of Work and reconvene the meeting at the earliest feasible date.

2.06 PROJECT MEETINGS

- A. The City's representative will conduct the weekly project meetings. To the maximum extent practicable, assign the same person or persons to represent the Contractor at project meetings throughout progress of the Work. Subcontractors, materials suppliers, and others may be invited to attend those project meetings in which their aspects of the Work are involved.
- B. Minimum Agenda:
 - 1. Review, revise as necessary, and approve minutes of previous meeting.
 - 2. Review progress of the Work since last meeting, including status of submittals for approval.
 - 3. Present and discuss Contractors updated three week schedule.
 - 4. Identify problems which impede planned progress.
 - 5. Develop corrective measures and procedures to regain planned schedule.
 - 6. Discuss changes in the work.
 - 7. Complete other current business.
 - 8. Review Progress Report.
 - 9. Review as-built drawings.
 - 10. Verify procurement activities and discuss associated lead times.

2.07 PRE-INSTALLATION MEETINGS

- A. Responsibilities:
 - 1. Contractor shall prepare and keep records of pre-installation meetings.

2. The Contractor shall maintain on site a binder containing all the meeting minutes for this project, available for review by the City's representative.

2.08 GUARANTIES / WARRANTIES, SERVICE & MAINTENANCE CONTRACTS
REVIEW MEETING

- A. Eleven months following date of final acceptance, the City shall hold a meeting for the purpose of review of guaranties/warranties, bonds and service & maintenance contracts for materials and equipment. Contractor shall take action as appropriate to implement repair or replacement of defective items, and to extend service and maintenance contracts, as required.
- B. Attending shall be City's representatives, Project Inspector, Contractor, and Contractor's Superintendent, Major Subcontractors, Suppliers and others as appropriate.

PART 3 EXECUTION

Not Used

END OF SECTION 01200

SECTION 01300

SUBMITTALS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

- A. Drawings and General Conditions of the Contract including General and Supplementary Conditions, and Division 1 Specification Sections apply to this Section.

1.02 SCOPE OF WORK:

- A. Submit construction schedule, shop drawings, submittal schedule, certificates, product data, samples, schedule of values, requests for information, requests for clarification, and products list as specified in this and other Sections.

1.03 RELATED WORK SPECIFIED ELSEWHERE:

- A. Material & Equipment: Section 01600.
- B. Warranties: Section 01700.
- C. Record Drawings: Section 01700.
- D. Operating & Maintenance Manuals: Section 01700.
- E. Progress Schedules: Section 01310.
- F. Substitution Requests / Equals: Section 01630.

1.04 GENERAL REQUIREMENTS:

- A. The Contractor shall be solely responsible for submittal dates and delivery of the required number of submittals to the City representative. Delays in work occasioned by late submittals, necessity of re-submittal, or performing Work from submittals unfavorably reviewed shall not be cause for increase in Contract Amount or for time extension.
- B. Contractor shall review, stamp with his approval, and submit with reasonable promptness and in orderly sequence so as to cause no delay in work or in work of any other contractor, submittals required by Contract Docu-

ments or subsequently by City representative in order to evaluate substitutions. Shop drawings and samples shall be properly identified. At time of submission, Contractor shall inform Architect in writing of any deviation in submittals from requirements of Contract Documents.

1. City representative's review of submittals shall not relieve Contractor of responsibility for any deviation from requirements of Contract Documents unless Contractor has informed City representative in writing of such deviations at time of submission, and City representative has given approval to specified deviation. City representative's review shall not relieve Contractor from responsibility for errors or omissions in Submittals.
 2. Prior to submittal for City review, fully coordinate material as follows:
 - a. Determine and verify field dimensions, conditions, materials, catalog numbers and similar data.
 - b. Coordinate as required with the various types of Work and public agencies involved.
 - c. Secure necessary approvals from public agencies and others and signify by stamp or other means that approvals have been secured.
- B. By approving and submitting submittals, Contractor thereby represents that he has determined and verified all field measurements, field construction criteria, materials, catalog numbers and similar data, or will do so, and that he has checked and coordinated each submittal with requirements of work and of Contract Documents. Submittals shall be forwarded so as to allow City representative ample time for review. Failure on the part of the Contractor to submit timely for reviews to allow the work to continue shall not be grounds for time extensions or changes to the contract amount. Selected contractor may deliver submittals to City representative for review prior to receiving Notice to Proceed with Construction on items that would delay completion of project if contractor waited until the issuance of Notice to Proceed.
- C. Contractor shall resubmit unfavorably reviewed submittals after making any changes required so that submittals will comply with the Contract Documents. When resubmitting, Contractor shall direct specific attention to deficient areas.
1. If any proposed substitution or equal material, equipment or method is judged by the Architect to be unacceptable, the specified item shall be provided. Further proposals for substitutions or equals for

that item will not be allowed unless specifically requested by the Architect.

- D. One set of each favorably reviewed submittal shall be kept on the job at all times, available for ready reference.
- E. No portion of work requiring a submittal shall begin until the submittal for the work has been favorably reviewed by City representative. All work shall be in accord with favorably reviewed submittals. If conflict arises between favorably reviewed submittals and Contract Documents, no work shall begin until such conflict is resolved in writing. Submittals shall as required in the sections of the specifications. See individual sections for samples etc., but submit numbers of submittals per this section.
- F. The City representative shall determine adequacy and completeness of all submittals. Where the Architect deems a submittal to be inadequate, incomplete, or otherwise unsuitable for proper review, the Contractor shall submit all additional information requested by the City representative. There shall be no change to the Contract Time or to the Contract Cost when such additional information is requested by the City representative.
 - 1. The City representative shall review the Shop Drawings; stamp and indicate the appropriate status, mark required revisions.
 - 2. The Contractor shall review the returned Drawings and take appropriate action as indicated. If resubmittal is required, make revisions and indicate them with a "cloud", stamp and date, and resubmit in the same manner and number as for the original submittal.
 - 3. Only those Shop Drawings which bear stamps showing final review of the Contractor and the City representative shall be used.
- G. Identification of the submittal shall be as follows:
 - 1. Identify each submittal and re-submittal with the following information:
 - a. Project name and address as they appear on the Contract Documents.
 - b. Contractor's name and address and Subcontractor's or supplier's name and address.
 - c. Contractor's stamp with initials or signature, certifying review and approval of submittal, compliance with Contract Documents and verification of field measurements.

- d. Name and telephone number of contact for additional information regarding the submittal.
- e. Drawing and Specification Section numbers to which the submittal applies.
- f. Whether it is an original or a re-submittal.
- g. Date of submission.

1.05 CERTIFICATES OF COMPLIANCE

- A. Submit certificates of compliance with the associated Shop Drawings, Product Data and Samples required for the product.
- B. Submit two copies on 8-1/2 inch-x-11 inch white paper.
- C. The City will retain the certificates of compliance; no approval reply is intended.

PART 2 - DEFINITIONS

2.01 GENERAL:

- A. The term "submittal" is defined to include the product data, material list, shop drawings, and samples as herein described.
- B. The term "favorably reviewed" means submittals have been reviewed by the City representative and copies returned to the Contractor marked "No Exceptions Taken" or "Make Changes Noted".
- C. The term "Unfavorably reviewed" means submittals reviewed by the City representative have been stamped "Revise & Resubmit", "Submit as Specified", or "Rejected".
- D. An "equal" is defined as material, equipment or method which is equivalent in every aspect to the material, equipment or method specified in the Contract Documents, as determined solely by the City representative. See Section 01630.
- E. A "substitution" is defined as a material, article, product or item offered in lieu of that specified in the Contract Documents, which may differ substantially from that specified. To be accepted, substitutions shall, in the opinion of the City representative, fully satisfy the intent of the Specifications. See Section 01630.

2.02 PRODUCT LIST:

- A. The product list is a complete listing of all materials and equipment to be furnished under this Contract. The list shall present the materials and equipment in the same sequence as they appear in the Specifications and shall include the manufacturer's name as well as catalog number, size, etc. The phrase "as specified" is not acceptable.
- B. Mechanical and Electrical submittals shall be submitted separately.
- C. Samples: Refer to Article 3.06.E above.

2.03 SHOP DRAWINGS:

- A. Shop drawings are drawings, illustrations, diagrams, schedules, performance charts, brochures and other data which are prepared by the Contractor or any subcontractor, manufacturer, supplier, or distributor, and which illustrate some portion of the work.

2.04 SAMPLES:

- A. Samples are physical examples furnished by the Contractor to illustrate materials, equipment, or workmanship, and to establish standards by which the work will be judged.

2.05 CONSTRUCTION SCHEDULE AND SUBMITTAL SCHEDULE:

- A. Construction Schedule:
 - 1. Content: Show product and installation dates for major products. Show dates for enclosing interior space, mechanical system completion, substantial completion, final completion, and Owner occupancy.
 - 2. Format:
 - a. Schedule format shall be Graphic Critical Path Method (CPM), (Microsoft Project), no substitutions allowed
 - b. The graphic schedule shall be revised and resubmitted monthly with the pay request for review and approval by City representative and be kept reasonably current.
 - c. Schedule: Schedule shall break down major trades, such as concrete work, plumbing and electrical to indicate rough and finish work. List all subcontractors, show time of material and equipment submittals for City representative's review

and allow approximately seven (7) working days for review when the submittal is for the City representative alone, and fifteen (15) days each when consultants are involved.

- d. Monitoring: Schedule shall be monitored weekly to reflect changes, and revisions shall be incorporated and distributed monthly with the pay request.
- e. Scale and Spacing: To provide space for notations and revisions.
- f. Updating: Indicate progress of each activity, show revised completion dates. Provide listing of current and anticipated accelerations and delays. Describe proposed corrective action when required.
- g. Submit initial schedule within fifteen (10) working days after date of the Contractor Agreement. After review, resubmit required revised data within ten (5) days. Two up-dated opaque reproductions shall be submitted every month with the pay request unless up-date revisions significantly impact the work and require coordination with the Architect for scheduling submittal review or construction observations.
- h. See Section 01311 for Project Schedule requirements

B. Submittal Schedule:

- 1. Provide separate schedule of submittal dates for shop drawings, product data, and samples, including Owner furnished products and dates reviewed submittals will be required from City representative. Show decision dates for selection of finishes.
- 2. Submit within mutually agreed time after date of Owner-Contractor Agreement.
- 3. Identify which products the Contractor proposes to submit by "Statement of Conformance".

2.06 PRODUCT DATA:

- A. Where the specific catalog number and manufacturer specified will be furnished, the Contractor may, when acceptable to the City representative submit a statement of conformance with the Contract Documents in place of the product data. Such a statement shall contain a statement that the Contractor has determined and verified all field measurements, field con-

struction criteria, materials, catalog numbers and similar data, or will do so, and that he has checked and coordinated all related items with requirements of the work and of the Contract Documents and has determined them to be correct and adequate for proper execution and installation of the subject product.

1. In such cases, where a statement of conformance is not an acceptable alternative to a full submittal of product data the Contractor shall submit such information required by the Contract Documents and deemed adequate by the City representative to review the subject product. There shall be no change to the Contract Time or to the Contract Cost when such a full submittal is requested by the Architect.
 2. In such cases, health and safety related information shall still be submitted for posting, if appropriate and/or if requested by the City representative
- B. Product data consists of manufacturer's catalog sheets, brochures, diagrams, schedules, performance charts, illustrations, and other descriptive data on products and systems including health and safety related information.
1. Copies of favorably reviewed product data shall be kept at the job site available for review.
 2. Product data shall include all required and pertinent product information regarding safety, handling, storage, application, and health and environmental hazards, and shall include related protective, preventive, or medical treatment.
 - a. Such product information shall be kept at the job site available for review and shall be in both written and graphic forms using universal symbols.
 - b. The information shall be displayed in prominent locations in accordance with the appropriate regulations.

2.07 LIST OF SUBCONTRACTORS AND MATERIAL SUPPLIERS:

- A. Within (5) five calendar days after award of Contract, the Contractor shall submit to the City representative a list of the Subcontractors with their addresses and phone numbers, including the names of the manufacturers of the finish items and material suppliers. The list shall contain all materials where a selection of color, finish, or texture is required to be selected by

the City representative as noted in the individual sections of the Specifications.

2.08 SUBSTITUTIONS:

- A. Substitution proposals will only be considered prior to Bidding, unless a substitution becomes required during the construction period due to circumstances beyond the control of the Contractor or their Sub-Contractors. See Section 01630 for substitution requirements.

2.09 EQUALS:

- A. Where the terms "or equal", "approved equal" or "or approved equal" occur, it shall be interpreted to mean pre-approval is required, prior to bid.
- B. The material or process considerations for being considered as an equal shall be as defined in Section 01630.
- C. Contractor shall certify that each product submitted as an equal is considered as asbestos free in accordance with all applicable regulations of Federal, State and Local Authorities and Regulatory Agencies.

2.10 PRE-APPROVAL OF EQUALS:

- A. Only those items, materials, equipment, methods or processes identified as "or equal", "approved equal" or "or approved equal" will be evaluated for pre-approval. See Section 01630.

2.11 REQUESTS FOR CLARIFICATION OR REQUESTS FOR INFORMATION:

- A. Definition: Contractor requests, in writing, Requests for Information or Requests for Clarification. Also known as an R.F.I. or R.F.C.
- B. RFI's or RFC's are issued by the General Contractor to the City representative RFI's or RFC's shall not be issued directly from sub-contractors. Sub-contractors' requests in writing shall be communicated through the General Contractor. The RFI's or RFC's shall be numbered consecutively by the General Contractor, with date of issue.
- C. RFI's or RFC's can be issued in only one of the following conditions:
 - 1. The Contractor discovers an unforeseen condition or circumstance that is not described in the Contract Documents.
 - 2. The Contractor discovers what appears to be a conflict or discrepancy between portions of the Contract Documents that appear in-

consistent and not reasonably inferred in the intent of the Contract Documents.

3. The Contractor discovers what appears to be an omission from the Contract Documents that cannot be reasonably inferred from the intent of the Contract Documents.
- D. RFI's or RFC's shall not be recognized or accepted if one of the following conditions exists in the opinion of the Architect:
1. The Contractor submits the RFI or RFC as a request for substitution (Refer to Section 01630).
 2. The Contractor submits the RFI or RFC as a submittal (Refer to Submittal Policy, above).
 3. The Contractor submits the RFI or RFC under the pretense of Contract Document discrepancy or omission without thorough review of the Documents.
 4. The Contractor submits the RFI or RFC in a manner that suggests that specific portions of the Contract Documents are assumed to be excluded or by taking an isolated portion of the Contract Documents in part rather than whole.
 5. The Contractor submits an RFI or RFC in an untimely manner without proper coordination and scheduling of work or related trades.
 6. RFI's or RFC's will not be recognized as a change or modification of scope, cost or time to the Contract Documents.
- E. RFI's or RFC's time of issue and response: The City representative will endeavor to answer all requests as described in 2.11, C in a reasonable time frame. A period equal to the time that the sub-contractor and General Contractor use in developing the RFI could be recognized as an approximate, equal period of time for the City representative to respond back to the Contractor. In most cases, RFI's and RFC's will receive a response within seven (7) working days (excluding Saturdays and Sundays) if the RFI or RFC is related to architectural only. If the RFI or RFC relates to consultant drawings 10 days shall be required. In a small number of instances, this time may need to be lengthened, or shortened for emergency situations as mutually agreed by all parties. The Contractor is to submit RFI's or RFC's in a reasonable time frame so as not to interfere or impede the progress of work and coordination of related trades.

1. RFI's and RFC's received after 12:00 noon shall be considered as having been received on the following working day.
 2. RFI's and RFC's received after 12:00 noon on a Friday shall be considered as having been received on the following Monday. When the following Monday is a holiday, the following Tuesday shall be considered as the next working day.
- F. RFI's or RFC's will be answered in writing by the City representative and may not, in themselves, initiate modifications to the Contract Documents.

PART 3 - EXECUTION

3.01 CONTRACTOR'S RESPONSIBILITIES, GENERAL:

- A. Review submittals prior to submission and provide stamp of approval signed or initialed by Contractor, indicating the Contractor has inspected the submittals, and certifying that they are complete, correct, in compliance with the Contract Documents and suitable for the Project.
- B. Make submittals minimum of thirty (30) days before needed return in accordance with Construction Schedule. Submission shall be by or through Contractor only.
- C. Submit submittals required by each Specification Section to City representative. Notify City representative in writing at time of submission of deviation in submittals from requirements of Contract Documents.
- D. City representative will require a minimum of seven (7) sets for each submittal for review and processing and a reproducible for copying by the Contractor at his expense after being favorably reviewed. Additional copies may be required for certain submittals ie: deferred submittals etc.. The Contractor shall coordinate number of individual submittal sets with the City representative.

3.02 PRODUCT LIST:

- A. The Contractor shall submit seven copies of the products list to City representative within thirty (15) calendar days following award of the Contract.
- B. Submit a complete list of major products proposed to be used, with the name of the manufacturer and the installing subcontractor. Refer to Section 01600.

3.03 SHOP DRAWINGS:

- A. Submit shop drawings showing connections, details, dimensions, finishes and fasteners.
 - 1. Identify related shop drawings, which shall be submitted at a later date.
- B. Submit shop drawings where required by various sections of the Specifications and when requested by City representative to evaluate a proposed substitution or method. Unless otherwise specified or requested, submit specified number plus additional required by Contractor.
 - 1. Where testing laboratory or other special inspection is specified, requested, or required by local authority, submit two (2) additional copies.

3.04 SAMPLES:

- A. Submit samples of size and quantity specified, or of sufficient size and quantity to illustrate clearly the functional characteristics of product, material, or system with integrally related parts and attachment devices.
- B. Pay costs of samples and prepay deliver charges.
- C. Unless otherwise indicated, submit a minimum of two (2) samples.

3.05 PRODUCT DATA:

- A. Submit the amount of product data for each product or system to obtain acceptable review.
- B. Identify data sheets with the section and paragraph numbers where the product or system is specified.
- C. Bind product data submittals in indexed loose-leaf notebook binding system.
- D. Equipment and systems must meet performance data even when specified by manufacturer's name and catalog number.
- E. Provide list of product data which will be submitted after the original submittal of the notebook binding system.

3.06 CITY 'S RESPONSIBILITIES FOR REVIEW:

- A. City representative will review submittals reasonably promptly so as to cause no delay, and will review only for conformance with design concepts of Project and with requirements of the Contract Documents.
1. The City representative shall require ten (10) working days for the review of adequate submittals for all items that involve the City representative only, and 15 days for items involving a consultant. The review period will not commence until the complete submittal is received by the City representative. The review period for deferred submittals shall be longer as they require approval from the City. The Contractor shall allow sufficient lead time, for these reviews. The actual time may be shorter or longer.
 2. Large or complex submittals may require additional review time. In such cases the City representative shall notify the Contractor in writing, within the initial ten (10) working day review period, of the additional time for review of the submittal. There shall be no change to the Contract Time or to the Contract Amount when such additional review time is required.
 3. Special reviews or reviews requiring a shorter review time than that specified above may be granted by the City representative to facilitate the Construction Schedule. Such special review or reduced review time submittal reviews will be granted solely at the discretion of the City representative, who's decision will be final.
 4. Review and processing time required for Deferred Approval by Sacramento City will be excluded from time limitations, but will be processed as expeditiously as possible.
 - a. No change to the Contract Amount or the Contract Time will be permitted should the work be delayed due to the time required to obtain reviews of Deferred Approval items by Sacramento City.
 - b. The City may grant a time only extension when the work is delayed by the time required to obtain Deferred Approvals, when such delay is beyond the control of the City representative or the Contractor, and when such a delay is not caused by an inadequate, incomplete or otherwise unacceptable Deferred Approval submittal.
- B. City representative 's review of a separate item shall not indicate acceptance of an assembly in which item functions.

- C. Submittals without Contractor's stamp will be returned without disposition. Delays resulting therefrom shall be Contractor's responsibility.
- D. City representative will return only two (2) copies of submittals marked "Revise & Resubmit," "Rejected" or "Submit Specified Item" to Contractor. Resubmittal shall be made in the number of copies as were originally submitted.
- E. One (1) favorably reviewed sample will be returned to the Contractor and shall be kept on the job site until completion, available for ready reference.
 - 1. Unfavorably reviewed samples will not be returned. Contractor shall be notified in writing by City representative of reason(s) for rejection of submitted sample.

3.07 SUBMITTALS AND SAMPLES AT THE SITE:

- A. One (1) copy of each favorably reviewed submittal shall be kept on the job site until completion, available for ready reference.
- B. No submittals reviewed and marked "Revise and Resubmit", "Rejected" or "Submit Specified Item" shall be kept at the job site.
- C. Samples: Refer to Article 3.06.E.

3.08 CORRECTIONS:

- A. Immediately incorporate all required corrections in the submittals and re-submit for further review, if required. Resubmit in number of copies as were originally submitted.

END OF SECTION 01300

SECTION 01311
SCHEDULES AND REPORTS

PART 1 GENERAL

1.01 GENERAL REQUIREMENTS

- A. The Work under this Contract will be planned, scheduled, executed and reported using the Critical Path Method (after this called CPM).
- B. The Contractor is required to comply with all procedures specified herein and with any reasonable changes that may be necessary, in the opinion of the City representative, during the Contract duration.
- C. The system shall comprise network diagrams, summary bar charts, and accompanying mathematical analyses. The diagrams shall show elements of the project in detail and the entire project summary.
 1. Diagrams shall show the order and interdependence of activities and the sequence in which the work is to be accomplished as planned by the Contractor. The basic concept of a network analysis diagram will be followed to show how the start of a given activity is dependent on the completion of preceding activities and how its completion restricts the start of following activities. Show similar activities which occur in separate areas or at different times as separate activities. The number of activities and the level of breakdown of the project into separate activities shall be acceptable to the City.
 2. Network activities shall include the following:
 - a. all construction activities.
 - b. submittals and approvals of materials and shop drawings.
 - c. the procurement , fabrication, and installation of critical materials and equipment.
 - d. all activities of the City or others that affect progress.
 - e. actions which must be complete prior to start of construction, for example, progress schedule approval, quality control program approval, and so forth.
 - f. activities for separate buildings and/or features shall be identified and grouped on the network and the interdependence of these groups shall be shown.
 - g. individual system startup and operation testing.

- h. Substantial Completion activity shall be shown comprising requirements specified in Division I to occur prior to the completion date.
 - i. contract required dates for completion of all or parts of the work
 - j. Final completion and acceptance activity late finish shall not exceed thirty days after substantial completion.
3. Show the following information on the diagrams for each activity: Preceding and following event numbers, description of the activity, and activity duration in calendar days. In calculating activity durations, Saturdays, Sundays, holidays, and normal inclement weather shall be considered. The network diagram shall conform to the standards demonstrated in the sample attached at the end of this Section.
4. The mathematical analysis of the network diagram shall include a tabulation of each activity. The following information will be furnished as a minimum for each activity.
 - a. preceding and following event numbers;
 - b. activity description;
 - c. estimated duration of activities;
 - d. earliest start date (by calendar days);
 - e. earliest finish date (by calendar days);
 - f. actual start date (by calendar days);
 - g. actual finish date (by calendar days);
 - h. latest start date (by calendar days);
 - i. latest finish date (by calendar days);
 - j. slack or float (in calendar days);
 - k. percentage of activity completed; and
 - l. Contractor's earnings based on portion of activity completed.
5. The mathematical computation shall compile the total value of completed and partially completed activities; and subtotals from separate buildings or features. The system shall also be capable of accepting revised completion dates as modified by approved time adjustments, shall re-compute all dates and float accordingly.
6. The analysis shall list the activities in sorts or groups as follows:

- a. by the preceding event number from lowest to highest and then by the order of the following event number;
 - b. by the amount of slack, then in order of preceding event number;
 - c. in order of latest allowable start dates, then in order of preceding event numbers, and then in order of succeeding event number; and
 - d. in order of latest allowable finish dates, then in order of preceding event numbers.
 - e. by responsibility in order of earliest allowable start dates;
7. Obtain information from subcontractors and others necessary to establish logic relationships, and durations. Resource loading is not required for activities other than those of the contractor and subcontractors.
 8. Resource Loading: Each activity shall have a corresponding schedule of quantities of labor, materials, equipment, and other resources directly incorporated into the activity.
- D. All milestones or Specific Completion Dates listed in these specifications, or elsewhere in the Contract Documents, represent only the major items of construction/erection work or interface dates. The Completion Dates are considered essential to the satisfactory performance of this Contract and to the coordination of all work on the project.
1. The Specific Dates listed represent the latest allowable completion dates. Earlier completion dates may be established as agreed by the Contractor, the Architect and the Owner.
- E. Should the Contractor plan to complete the Work earlier than any required Milestone or Completion date, the City representative shall not be liable to the Contractor for any costs or other damages if the Contractor is unable to complete the Work before such Milestone or completion date.
- F. The Contractor shall provide and input all information required for development of the schedule for the work according to the requirements of this Section.
- G. The Contractor shall participate in a review and evaluation of the proposed network diagrams and analysis by the City. Resubmit any revisions necessary as a result of this review for approval by the City within fifteen (10) calendar days after the conference. The

approved schedule shall then be used by the contractor for planning, organizing and directing the work, for reporting progress, for requesting payment for work accomplished, and as the basis for any discussion or negotiation of time extensions. If changes in the method of operating or in scheduling are made, notify the City in writing stating the reasons for the change. The City may require revision and resubmittal for approval, without additional cost to the City, of all of the affected portion of the detailed diagrams and mathematical analysis showing the effect of any such change on the entire project. A change requiring resubmittal is one for which variation in estimated or actual activity duration, or variation in the logic sequence of activities creates a reasonable doubt, in the City's opinion, as to the contractor's ability to meet the contract completion date or dates; or which reflects a change in the logic relationships of activities on the critical path.

- H. The purpose of the project schedule and the planning meeting shall be to:
 - 1. Assure adequate planning, scheduling and reporting during execution of the contract;
 - 2. Assure coordination of the work of the Contractor and the various subcontractors and suppliers;
 - 3. Assist the Contractor in monitoring the progress of the work and evaluating proposed changes to the Contract;
 - 4. Assist the Contractor in the preparation and evaluation of the Contractor's monthly progress payments.
- I. Should the Contractor choose to have an outside scheduling consultant prepare the initial schedule, the Contractor understands and agrees to comply with all requirements of this Section.

1.02 POST AWARD ACTIVITIES

A. Network Requirements

- 1. Within fifteen (10) calendar days of the Notice to Proceed, the Contractor shall submit to the City representative for review and comment, a CPM Schedule in precedence form for the construction/erection work scope. The Contractor shall provide three hardcopies and one electronic copy. Each succeeding submittal of the schedule will have the same requirements for number and type of submittal as the first. **The scheduling program shall be Microsoft Project, no substitutions will be allowed.** The CPM Schedule shall provide a complete and detailed sequence of operations of the Work within the time limits specified in the Contract.

- a. The CPM Schedule diagram shall include:
- (1) The order and interdependencies of the Contractor's activities and the major points of the interface or interrelation with the activities of others, including Specific Dates for completion. The following criteria shall form the basis for assembly of the logic:
 - (a) What activity must be completed before a subsequent activity can be started?
 - (b) What activities can be done concurrently? This includes activities with Start-to-Start and Finish-to-Finish relationships with or without leads and lags.
 - (c) What activity must be started immediately following a completed activity?
 - (2) Activities should be linked between major area separations of the project so that the individual areas do not imply complete independence. The critical path should run through all major areas, since the entire project must be completed.
 - (3) Conformance with and identification of the Specific Dates specified in the Contract Documents.
 - (4) The description of work by activity.
 - (5) Off site activities: The Contractor shall include in the CPM Schedule all procurement activities, which lead to the delivery of materials to the site. Upon written approval from the Architect, these activities may be submitted as a separate Off-Site Activities Schedule, properly correlated to the CPM Schedule. The Schedule of Off-Site Activities shall include the following:
 - (a) Dates for submittals, ordering, manufacturing or fabricating, and delivery of equipment and materials. Long lead items requiring more than one month between ordering and delivery to the site shall be clearly noted;
 - (b) All significant Contractor activities during the fabrication and erection/installation in a Contractor's plant or on a job site,

- including materials / equipment purchasing, and delivery;
- (c) Contractor's drawings and submittals to be prepared and submitted to the Architect.

The Contractor shall be solely responsible for expediting the delivery of all material to be furnished by him so that construction progress is maintained according to the current Schedule for the Work.

Submittals, equipment orders and similar items are to be treated as Schedule activities, and shall be given appropriate activity numbers.

- (6) Delivery of Owner-furnished material and equipment.
- (7) Shop fabrication and delivery.
- (8) Critical Path (or Paths).
- (9) Testing of equipment and materials.

B. The identity, duration and logic of activities comprising the CPM Schedule shall meet the following criteria:

1. Activity boundaries shall be easily measurable and descriptions shall be clear and concise. Do not preface activity descriptions with "Begin" or "Complete." The beginning and end of each activity shall be readily verifiable, and progress should be quantifiable.
2. Responsibility for each activity shall be identified with a single performing organization.
3. The cost component for each activity shall be provided. The sum of the activity cost components shall equal the contract price. No costs, however, shall be assigned to manufacture or delivery activities.
4. Potential problems or constraints related to the implementation of the construction plan shall be identified in writing.
5. Seasonal weather conditions, utility coordination, no-work periods, expected job learning curves, and other foreseeable delays to activities shall be considered and included in the planning and scheduling of all work. Seasonal weather conditions shall be based upon the historic weather records published for the local Contractors by National Data Centers.
6. Maximize Start-To-Start and Finish-To-Finish activity relationships. Overlapping activities minimizes out-of-sequence problems that arise when most relationships are Finish-To-Start with zero lead or lag.

7. Imposed completion dates for events other than the Specified Completion Dates will not be permitted.
8. The level of detail of the CPM Schedule shall be such that activity durations over fifteen (10) working days shall be kept to a minimum except for non-construction activities such as shop drawing and sample submittals, fabrication and delivery of materials and equipment, delivery of equipment, concrete curing, and General Conditions activities, or with the approval of the City representative. The City representative has final approval of, and can request further breakdowns of activities, in order to facilitate tracking and accuracy of pay requests.
9. The CPM Schedule shall show an early completion date for the project that is not later than the project's required completion date. All activity durations shall be given in working days. The CPM Schedule also shall show the following for each activity:
 - a. Interfaces with the work of outside contractors, e.g., utilities, power, and with any separate contractor.
 - b. Description.
 - c. Estimated duration.
 - d. Early start (by calendar date).
 - e. Late start (by calendar date).
 - f. Early finish (by calendar date).
 - g. Late finish date (by calendar date).
 - h. Total float available in workdays.
 - i. Actual start date (by calendar date).
 - j. Actual finish date (by calendar date).
 - k. Activity code(s).
 - l. The Critical Path for the project, with said path of activities being clearly and easily recognizable on the time-scaled CPM Schedule Diagram. The relationship between all non-critical activities and activities on the Critical Path shall be clearly shown on the CPM Schedule Diagram.
 - m. The dollar value of each activity, not exceeding \$20,000.
 - n. The responsibility code for the Contractor or Subcontractor performing each activity or portion of the activity.
 - o. The percentage complete of each activity in progress or completed whether manually input or computer calculated.
 - p. An activity related to "Punchlist" will be incorporated into the schedule and schedule of values in an amount not less than 1% of total contract amount.

Payment for this activity will be made upon satisfactory completion of all punchlist work.

C. Submittals

1. Within fifteen (10) calendar days after Notice to Proceed, the Contractor shall submit to the City representative for review and comment, a CPM Schedule in precedence form for the construction/erection work scope. The submittal of the contract scheduling documents shall include:
 - a. A plotter-generated time-scaled network diagram showing activity descriptions, durations and relationships between activities. The critical path should be easily identifiable.

D. Approval Process

1. The City representative will review the Contractor's Schedule, and shall have five (5) working days to review and comment in writing.
2. The Contractor shall revise and resubmit the Schedule as soon as practical but in all cases within fourteen (14) calendar days. The City representative will have three (3) working days to review and comment on the revised Schedule.
3. Once the Schedule is approved, it will become the official Project Schedule and will be used to monitor progress of the Work, subject to such revisions made to the Schedule as provided for herein or in the Contract Documents, and to support requests for payment.
4. Acceptance by the City of the Contractor's CPM Schedule shall not relieve the Contractor of the responsibility for accomplishing the Work within every Contract-required Milestone and Completion date. The City disclaims any obligation or liability due to acceptance of the CPM Schedule.
5. If the Contractor fails to provide the schedules within the time prescribed, or revisions to the schedule within the requested time, the City may withhold approval of payment until the Contractor submits the required information.

1.03 UPDATES

- A. The Contractor understands and agrees that their schedule is intended to accurately reflect at all times the status of the Project construction. The Contractor also understands and agrees that updating the schedule is a key component of this requirement and will make every reasonable effort to provide current information.

- B. Throughout the progress of the Work, the Contractor shall prepare and maintain a two-week manual bar chart field schedule reflecting the schedule of work activities accomplished for the previous week and the work scheduled for the forthcoming two weeks. This manual field schedule shall be updated weekly.

1.04 PROGRESS PAYMENTS

- A. The submission and approval of progress updates and the calculations of the value of work done for any given pay period for each activity based on the percentage complete for that activity less the amount previously paid for past percentages complete and percent of retention shall be an element of the evaluation of Progress Payments.
- B. No payment for work will be approved until the Contractor has complied with the provisions of this Section.
- C. An initial application for Payment for expenditures not directly related to Work accomplished at the project will be allowed before the acceptance of the Contractor's schedule. This payment will be limited to such items as Permits, Bonds, Mobilization, and Insurance. Requests for payment for work items not included above will be denied without an approved schedule.

1.05 RECOVERY SCHEDULE

- A. In the event that certain activities shown on the Contractor's CPM Schedule fall behind to the extent that any of the specific Dates are in jeopardy, the Contractor shall be required, at no extra cost to the Owner, to prepare and submit to the City representative a supplementary Recovery Schedule, in a form and detail appropriate to the need, to explain and display how he intends to reschedule those activities to regain compliance with the CPM Schedule during the immediate subsequent pay period.
- B. The Contractor shall do the following, after determination of the requirement for a Recovery Schedule:
 - 1. Within three (3) calendar days, the Contractor shall submit a Recovery Schedule for acceptance to the City representative. The Recovery Schedule shall be prepared to similar level of detail as the CPM Schedule and shall have a maximum duration of one (1) month.
 - 2. Any revisions necessary because of this review shall be resubmitted by the Contractor for acceptance within two (2) calendar days of the conference. The approved Recovery Schedule shall then be the Schedule that the Contractor shall use in planning, organizing, directing, coordinating, performing and executing the Work (including all activities of subcontractors, regain compliance with the CPM Schedule.

equipment vendors and suppliers) for its one (1) month duration.

1.06 REVISIONS REQUESTED BY CONTRACTOR

- A. The Contractor understands and agrees that their schedule is intended to accurately reflect at all times the status of the Project construction. The Contractor also understands and agrees that changes or revisions to the schedule are key components of this requirement and will make every reasonable effort to provide information as quickly as possible so that the CPM Schedule accurately reflects current conditions.
- B. Should the Contractor, after approval of the initial CPM Schedule want to change the plan of construction, he shall submit the requested revisions to the City representative including a description of the logic for rescheduling the work, methods of maintaining adherence to intermediate milestones and specific dates and the reasons for the revisions.
- C. The Contractor shall revise the schedule to include the effect of changes, acts of God or other conditions or events that have affected the CPM Schedule. The City representative will have three (3) working days to review and either approve the change or reject the change in writing to the Contractor. If the requested changes are approved by the City representative they will be incorporated by the Contractor into the CPM Schedule in the next reporting period.
- D. When the Owner orders changes by Change Order that have the potential to impact the Contract Milestones or Specific Dates stipulated, the Contractor shall provide (when owner requests) a revised schedule indicating possible impacts. Should the Owner accept the change, it will be incorporated into the CPM Schedule by the Contractor.
- E. Neither the updating or revision of Contractor's Detailed Construction Schedule nor the submission, updating, change or revision of any report or schedule for Owner's review or non-objection of any such report or schedule, have the effect of amending or modifying, in any way, the contract Time, any Contract Completion Date, or Contract Milestone Dates or of modifying or limiting in any way contractor's obligations under this Contract.
- F. If at any time during the construction, it appears to the City representative that the Contractor's schedule no longer represent the actual prosecution and progress of the work, the Architect will request in writing a revision to the schedule. Any "out of sequence progress" problems will be considered evidence that the schedule needs revising. The Contractor then has three (3) working days to

respond to that written request. In the event the Contractor does not agree with the conclusion of the City representative regarding the schedule status of the project, it shall be resolved in accordance with the disputes clause of the contract.

- G. Failure to furnish any required submittal or information specified herein shall constitute a cause for withholding any part of progress payments.

1.07 FLOAT TIME

- A. Float or slack time is the amount of time between the earliest start date and the latest start date, or between the earliest finish date and the latest finish date of a chain of activities on the CPM Schedule. Float or slack time is not for the exclusive use or benefit of either the Contractor or the Project. Contractor's work shall proceed according to start dates, and City representative shall have the right to reserve and apportion float time according to the needs of the project.

1.08 DELAYS AND TIME EXTENSIONS

- A. When the Contractor experiences change orders or delays and the Contractor requests an extension of time, the Contractor shall submit to the Architect a written Time Impact Analysis illustrating the impact of each change or delay on the current contract schedule completion date. The activity times used in the Time Impact Analysis shall be those included in the latest project schedule update.
- B. Extensions of time for performance as described in the Contract Documents will be granted only to the extent that time adjustments for the activity or activities affected by any condition or event that entitles the Contractor to a time extension exceed the total float or slack along the path of activities affected at the time of Notice to Proceed of a Change Order or the commencement of any delay or condition for which an adjustment is warranted under the Contract Documents.
- C. Each Time Impact Analysis shall be submitted within five (5) calendar days after a delay occurs or notice of direction for proceeding with a change order is given to the Contractor. If the contractor does not submit a Time Impact Analysis within the specified time period, the Contractor's rights to any additional time and cost are waived.
- D. Approval or rejection of each Time Impact Analysis shall be made within five (5) calendar days after receipt, unless subsequent meetings and negotiations are necessary. A copy of the approved Time Impact Analysis signed by the Owner and the Architect will be returned to the Contractor for incorporation into the schedule. The

changes to the schedule will be incorporated into the Project Schedule during the first update after agreement is reached on the Time Impact Analysis.

- E. In the event the Contractor does not agree with the decision of the Owner regarding the impact of a change or delay, it shall be resolved in accordance with the disputes clause of the contract.

1.09 COORDINATION

- A. The Contractor shall coordinate the work with that of the other contractors and shall cooperate fully with the Project Manager in maintaining orderly progress toward completion of the Work as scheduled.
- B. Failure of Owner-furnished equipment and materials to arrive as scheduled, or failure of other construction contracts to meet their schedule, shall not be justification for an extension of time, except where such failure causes, in the opinion of the Architect, an unreasonable delay in the Contractor's work, in which case the provisions of the General Conditions regarding extensions of time and extra work shall apply.
- C. The Contractor shall keep itself and subcontractors advised always while the work is progressing regarding delivery status of Owner-furnished equipment and material and of the progress of construction work being performed under separate contracts.
- D. The Contractor shall involve all applicable Subcontractors in the schedule development, updating, and revisions, if required.

1.10 DEFAULT

- A. Failure of the Contractor to comply with the requirements of this Section shall constitute reason that the Contractor is failing to prosecute the Work with such diligence as will insure its completion within the Contract items and may be considered as one of the grounds for termination by the Owner.

1.13 DAILY CONSTRUCTION REPORTS

- A. The Contractor shall prepare and submit to the City representative a daily construction report, recording the following information concerning events at the site. Keep a copy at the site in a separate binder and submit duplicate copies to the City representative:
 - a. List of subcontractors at the site.
 - b. Approximate count of personnel per trade at the site.
 - c. High and low temperatures, general weather conditions.
 - d. Accidents and unusual events.
 - e. Meetings and significant decisions.
 - f. Stoppages, delays, shortages, losses.
 - g. Meter readings and similar recordings.

- h. Emergency procedures.
- i. Orders and requests of governing authorities.
- j. Change Orders received, implemented.
- k. Services connected, disconnected.
- l. Equipment or system tests and start-ups.
- m. Partial completions, occupancies.
- n. Substantial Completions authorized.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

END OF SECTION 01311

SECTION 01313
CERTIFICATION OF COMPLIANCE

The Contractor does hereby certify that all work has been performed and materials supplied in accordance with the drawings, specifications and Contract Documents for the above Work, and that:

No less than the prevailing rates of wages as ascertained by the governing body of the Contracting agency has been paid to laborers, workmen and mechanics employed on this Work;

There have been no unauthorized substitutes of Subcontractors; nor have any subcontractors been entered into without the names of the Subcontractors having been submitted to the Owner prior to the start of such subcontracted work;

No subcontract was assigned or transferred or performed by any Subcontractor other than the original Subcontractor, without prior notice having been submitted to the City together with the names of all Subcontractors;

All claims for material and labor and other service performed in connection with these specifications have been paid;

In WITNESS WHEREOF, the undersigned has signed and sealed this instrument this day _____, 2____.

Firm Name_____

Signature_____

Title_____

(Attest) _____

(SEAL IF BIDDER IS A CORPORATION)

As determined necessary, evidence of compliance may be required to be submitted with and made a part of this Certificate of Compliance.

SECTION 01313
CERTIFICATION OF COMPLIANCE

PART 1 GENERAL

1. No final payment shall be made until the Contractor files with the Owner, prior to acceptance of the Work, a notarized Certification of Compliance in the following form.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

END OF SECTION 01313

SECTION 01340
SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

PART 1 GENERAL

1.01 DESCRIPTION

- A. Submit, to the Architect shop drawings, product data and samples required by Specifications Sections or as specifically requested by City representative.
- B. Related requirements specified elsewhere:
 - 1. Section 01311: Project Schedule
 - 2. Section 01700: Contract Closeout:
 - 3. Section 01780: Record Documents
- C. The Contractor shall prepare and submit to City representative with Construction Schedule, a separate schedule listing dates for submission of all required shop drawings, product data and samples, tied into Construction Schedule with appropriate logic.

1.02 SHOP DRAWINGS

- A. Original drawings, prepared by Contractor, subcontractor, manufacturer, supplier or distributor, which illustrate some portion of the Work showing fabrication, layout, setting or erection details.
- B. Shop drawings shall be prepared for this particular project. Drawings prepared specifically for other projects and revised for this project will be rejected.
- C. When necessary, base shop and setting drawings upon actual measurements taken at site and other job conditions. Show any variations and revisions to Contract Documents that are necessary for proper installation of work. Fabrication or installation of work shall not be started until shop or setting drawings have been checked and returned with "furnish as submitted" or "furnish as corrected" indicated by Architect.
- D. Identify details by reference to sheet and detail numbers shown on Contract Drawings.
- E. Submit shop drawings, required by Contract Documents for execution of Work, to City representative not later than 10 days prior to contemplated or actual need in shop or at site, and earlier where more time may be required for review.
- F. Provide shop drawings with cross-reference to drawing and detail numbers on Contract Drawings to facilitate review.

- G. Provide shop drawings which demonstrate to City representative that:
 - 1. Contractor understands design concept of certain portions of Work.
 - 2. Equipment and material to be provided meet design and technical requirements of Contract Documents.
 - 3. Methods of fabrication and installation.
- H. After review, reproduce and distribute in accordance with Section 01300.

1.03 PRODUCT DATA

- A. Manufacturer's standard schematic drawings:
 - 1. Modify drawings to delete information that is not applicable to project.
 - 2. Supplement standard information to provide additional information applicable to project.
- B. Manufacturer's catalog sheets, brochures, diagrams, schedules, performance chart, illustrations and other standard descriptive data.
 - 1. Clearly mark each copy and identify pertinent materials, products or models.
 - 2. Show dimensions and clearances required.
 - 3. Show performance characteristics and capacities.
 - 4. Show wiring diagrams and controls.
- C. Submit product data required by Contract Documents for execution of work, to City representative not later than 15 days prior to contemplated or actual need in shop or at site, and earlier where more time may be required for review. See Section 01300.
- D. Provide product data with cross-reference to Specifications Section of Project Manual to facilitate review.
- E. Submit number of copies per section 01300.
- F. After review, distribute in accordance with Article on Procedures above and provide copies for Record Documents.

1.04 SAMPLES

- A. Provide physical examples to illustrate materials, equipment or workmanship and to establish standards by which completed work is judged.
- B. Office Samples: Of sufficient size and quantity to clearly illustrate:
 - 1. Functional characteristics of product or material, with integrally related parts and attachment devices.
 - 2. Full range of color samples.

3. After review, samples may be used in construction of Project.
 4. Include identification on each sample, with full Project information.
 5. Submit samples in ample time for review or selection, as applicable, so as to not delay Work.
 6. Take into account delivery time of all manufactured items when submitting samples.
- C. Submit samples of size and quantity specified, or, if not specified, of sufficient size and quantity to illustrate functional and aesthetic characteristics of Product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
- D. Submit samples of finishes from full range of manufacturers' standard colors, or in specified custom colors, textures, and patterns, for City representative selection.
- E. Field Samples:
1. Construct each sample complete, including work of all trades required in finished Work.
 2. After acceptance, where appropriate and upon City representative's written approval, field samples may be incorporated into Project.
 3. When directed, remove field samples not incorporated into Project from site.

1.05 MANUFACTURER'S INSTRUCTIONS

- A. When specified in individual specification Sections, submit manufacturers' printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, in quantities specified for Product Data.
- B. Identify conflicts between manufacturers' instructions and Contract Documents.

1.06 MANUFACTURER'S CERTIFICATES

- A. When specified in individual specification Sections, submit manufacturers' certificate to City representative for review, in quantities specified for Product Data.
- B. Indicate material or product conforms to or exceeds specified requirements. Submit supporting reference date, affidavits, and certifications as appropriate.
- C. Certificates may be recent or previous test results on material or Product, but must be acceptable to City representative.

1.07 REQUIRED SUBMITTAL QUANTITIES TO THE CITY

Prints

A.	Construction Schedule:	
1.	8-1/2 x 11 inch size:	7
2.	Larger than 8-1/2 x 11 inch:	7
B.	Survey Date:	
1.	8-1/2 x 11 inch:	7
2.	Larger than 8-1/2 x 11 inch:	7
C.	Shop Drawings:	
	See specific section covering Shop Drawing submittal requirements.	
D.	Product Data:	
1.	8-1/2 x 11 inch:	7
2.	Larger than 8-1/2 x 11 inch:	7
E.	Office Samples:	
	See specific section covering product or material.	
F.	Field Samples:	
	See section covering specific system.	
G.	Schedule of Values	2

1.08 CONTRACTOR RESPONSIBILITIES

- A. Review shop drawings, product data and samples prior to submission.
- B. Verify:
 - 1. Field measurements.
 - 2. Field Construction criteria.
 - 3. Catalog numbers and similar data.
- C. Coordinate each submittal with requirements of Work and Contract Documents.
- D. Contractor's responsibility for errors and omissions in submittals is not relieved by City representative 's review.
- E. Contractor's responsibility for deviations in submittals from requirements of Contract Documents is not relieved by City representative's review of submittals.
- F. Notify the City representative, in writing at time of submission, of deviations in submittals from requirements of Contract Documents.

- G. Begin no work that requires submittals until return of submittals with City representative's stamp and initials or signature indicating review.
- H. After City representative 's review, distribute copies.

1.09 SUBMITTAL REQUIREMENTS

- A. Make all submittals far enough in advance of scheduled dates for installation to provide all required time for review, for securing necessary approvals, for possible revision and re-submittals and for placing orders and securing delivery. Submission of all shop drawings shall be through the General Contractor.
- B. Submit one (1) original and six (6) prints of shop drawings. These will be distributed as follows: Original plus (1) copy to remain with the Architect, (2) for the city, (1) which will be returned, and (3) copies of product data which Contractor requires for distribution. Should the contractor require more copies for his use, he shall provide additional copies at no cost to the owner.
- C. Submit number of samples specified in each specification section.
- D. Unless otherwise specifically permitted by the City representative, make all submittals in groups containing all associated items. Partial submittals may be rejected.
- E. Accompany submittals with transmittal letter, in duplicate, containing:
 - 1. Date
 - 2. Project title and number
 - 3. Contractor's name and address
 - 4. The number of each shop drawing, product data and sample submitted.
 - 5. Notification of deviations from Contract Documents.
 - 6. Specifications section it represents
- F. Submittals shall include:
 - 1. Date and revision dates
 - 2. Project title and number
 - 3. The name of:
 - a. Architect / Engineer
 - b. Contractor
 - c. Subcontractor
 - d. Supplier
 - e. Manufacturer
 - f. Separate detailer when pertinent
 - 4. Identification of product or material

5. Relation to adjacent structure or materials
6. Field dimensions, clearly identified as such
7. Specifications section number
8. Applicable standards, such as ASTM number or Federal Specification
9. A blank space, for review stamp
10. Identification of deviations from Contract Documents
11. Contractor's stamp, initialed or signed, certifying to review of submittal, verification of field measurements and compliance with Contract Documents.

1.10 RESUBMITTAL REQUIREMENTS

- A. Shop Drawings:
 1. Revise initial drawings as required and resubmit as specified for initial submittal.
 2. Indicate on drawings any changes that have been made other than those requested by City representative.
 3. Product data and samples: Submit new data and samples as required for initial submittal.

1.11 CITY REPRESENTATIVE'S DUTIES

- A. Review submittals with reasonable promptness as mutually agreeable among the various parties.
- B. Review for:
 1. Design concept of project.
 2. Information given in Contract Documents
- C. Review of separate item does not constitute review of an assembly in which item functions.
- D. Affix stamp and initials or signatures certifying the review of submittal.
- E. Return submittals to Contractor for distribution.
- F. The City representative may immediately reject any item without further review if it is not:
 1. Accompanied by a transmittal letter containing the required information.
 2. Submitted as a reproducible.
 3. Stamped "approved" by the Contractor.
- G. The review will be for conformance to the design concept and compliance with information given in the Contract Documents. The Architect will make notations directly on the reproducible.

- H. The review is intended to foresee unacceptable products and to avoid the possibility of their rejection at the site. The review shall not be construed as:
 - 1. Permitting a departure from the Contract Documents, unless specifically so noted.
 - 2. Relieving the Contractor of the responsibility for errors or omissions.
 - 3. Acceptance of an assembly in which an approved item is a part.
 - 4. Approval of variations from previously approved items.
 - 5. Approval of dimensions.
- I. The City representative will review all samples. Such review will be for appearance only. Compliance with all other requirements is the responsibility of the Contractor.
- J. Where the Contract Documents require the design of structural, mechanical or electrical systems or components of systems by a supplier, or where a Contractor initiates a change in the design of a system or component thereof, such systems or components shall be designed by a registered professional Architect or Engineer and all calculations submitted to this City representative for City's records, prior to starting fabrication or installation of the Work. The City will not be responsible for the designs of such other professional Architects or Engineers.

1.12 VARIATIONS FROM CONTRACT DOCUMENTS

- A. If the City representative determines a variation from the Contract Documents is in the best interest of the Owner, and it does not involve change in the Contract price or item, the City representative, may permit such variation.
- B. Unless the City representative receives immediate written notification, he will assume the Contractor approves any variation shown.
- C. If the Contractor fails to mention variations from the Contract Documents, he will not be relieved of the responsibility for executing the Work in accordance with the Contract Documents.
- D. When a variation from the Contract Documents is permitted and such variation involves corresponding adjustments in an adjacent or related item, the responsibility for making and paying all costs for such adjustment rests with the Contractor requesting the original variation.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

END OF SECTION 01340

SECTION 01370

SCHEDULE OF VALUES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.
- B. See also the Schedule of Values Form in the Contract.

1.02 DESCRIPTION

- A. Work Included: Provide detailed Schedule of Value breakdowns, of the agreed Contract Sum, showing values allocated to each of the various parts of the Work, as specified herein and in other provisions of the Contract Documents.
- B. Related Work
 - 1. Documents affecting work of this Section include, but are not necessarily limited to, Conditions of the Contract, and Sections in Division 1 of these Specifications.
 - 2. Schedule of Values is required by the Conditions of the Contract.
 - 3. Schedule of Values is required to be compatible with the "continuation sheet" accompanying applications for payment.

1.03 QUALITY ASSURANCE

- A. Use required means to assure arithmetical accuracy of the sums described.
- B. When so required by the Architect, provide copies of the subcontracts or other data acceptable to the City representative, substantiating the sums described.

1.04 SUBMITTALS

- C. Prior to first application for payment, submit a proposed Schedule of Values through the City representative.
 - 1. Meet with the City representative and determine additional data, if any, required to be submitted.

2. Secure the City representative 's approval of the Schedule of Values prior to submitting first application for payment.
3. Detail shall include, at a minimum, by site.
 - a. By building and/or site
 - b. By trade
 - c. By major activity
 - d. By activity
 - e. Equipment costs
 - f. Mobilization/submittal costs
 - g. Closeout services
4. Submit anticipated pay application draw (including Conditions of the Contract) for each month of the Project.

END OF SECTION 01370

SECTION 01400
QUALITY CONTROL

PART 1 GENERAL

1.01 DESCRIPTION:

- A. Section Includes:
 - 1. Quality assurance and control of installation.
 - 2. References.
 - 3. Field samples.
 - 4. Mock-up.
 - 5. Inspection and testing laboratory services.
 - 6. Contractor's inspection and testing responsibilities.
 - 7. Testing laboratory responsibility.
 - 8. State's responsibility
 - 9. Manufacturers' field services and reports.
- B. Related Sections:
 - 1. Section 01340 - Submittals: Submission of Manufacturers' Instructions and Certificates.
 - 2. Section 01615 - Delivery, Storage and Handling.

1.02 QUALITY ASSURANCE/CONTROL OF INSTALLATION

- A. Monitor quality control over suppliers, manufacturers, Products, services, site conditions, and workmanship, to produce Work of specified quality.
- B. Comply fully with manufacturers' instructions, including each step in sequence.
- C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.
- D. Comply with specified standards as minimum quality for Work except when more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- E. Perform work by persons qualified to produce workmanship of specified

quality.

- F. Secure Products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion or disfigurement.
- G. Codes and Standard: Testing, when and where required, will be in accordance with pertinent codes and regulations and with selected standards of the American Society for Testing and Materials.

1.03 REFERENCES

- A. Conform to reference standard by date of issue current on date of Contract Documents.
- B. Obtain copies of standards when required by Contract Documents.
- C. Should specified reference standards conflict with Contract Documents, request clarification from City representative before proceeding.
- D. Contractual relationship of parties to Contract shall not be altered from Contract Documents by mention or inference otherwise in any reference document.

1.04 FIELD SAMPLES

- A. Install field samples at site as required by individual specifications Sections for review.
- B. Acceptable samples represent acceptable quality level for Work.
- C. Where field sample is specified in individual Sections to be removed, clear area after field sample has been accepted by City representative.
- D. Contractor shall be responsible for job site handling and curing of concrete, mortar and grout test specimens, in strict compliance with all applicable ASTM specifications.

1.05 MOCK-UP

- A. Tests will be performed under provisions identified in this section and individual product sections.
- B. Assemble and erect specified items, with specified attachment and anchorage devices, flashings, seals, and finishes.
- C. Where mock-up is specified in individual Sections to be removed, clear area after mock-up has been accepted by City representative unless directed otherwise.

1.06 INSPECTION AND TESTING LABORATORY SERVICES

- A. Contractor, from the approved list will employ and pay for services of independent firm to perform inspection and testing.
- B. Special inspection required by Specifications, code or ordinance, shall be

performed by a qualified inspector selected by City.

1. The Special Inspector shall be a person qualified to inspect the particular type of construction or operation requiring special inspection. He shall demonstrate his competence to the satisfaction of the Sacramento City Building Official.
 2. Inspection by the Special Inspector shall in no way relieve the Contractor of his obligation to perform the Work in accordance with the requirements of the Contract Documents.
 3. Special Inspectors shall observe the work for conformance with the Drawings and Specifications and in accordance with the applicable provisions of California Building Code, latest edition, with any Sacramento City Amendments.
- C. Contractor shall cooperate and afford every opportunity for such inspections.

1.07 CONTRACTOR'S INSPECTION AND TESTING RESPONSIBILITIES

- A. Cooperate with independent firm:
1. Furnish samples of materials, design mix, equipment, tools, storage and assistance as requested.
 2. Provide access to work and manufacturer's operations.
 3. Notify City representative and independent firm 24 hours prior to expected time for operations requiring services.
 4. Contractor shall make arrangements with independent firm and pay for additional samples and tests required for Contractor's use not specified in the contract documents.
 5. Furnish copies of mill test reports.
 6. Furnish casual labor and facilities.
 - a. To provide access to work to be tested.
 - b. To obtain and handle samples at site.
 - c. To facilitate inspections and tests.
 - d. For laboratory's exclusive use for storage and curing of test samples.

7. Arrange with laboratory and pay for additional samples and tests required for Contractor's convenience.
 8. Should Contractor elect to exercise certain options in Specifications necessitating additional testing or inspection, or if tests and/or inspections result from work performed other than during approved regular hours of work, costs for such testing and inspections shall be Contractor's obligation and Owner will make payment thereon and will deduct such costs from contract price.
- B. Retesting:
1. Retesting required because of non-conformance to specified requirements shall be performed by same independent firm on instructions by City representative.
 2. Should initial tests indicate non-compliance with Contract Documents, costs for both initial tests and subsequent retesting occasioned by non-compliance, and all other related costs, including additional consultant services made necessary by such failure will be charged to Contractor by deducting such costs from Contract Sum/Price.
- C. Notification: Contractor shall notify Testing Lab, City representative a minimum of 24 hours in advance of any operations scheduled for inspection and/or testing specified herein, to allow for laboratory assignment of personnel and scheduling of test. Work requiring inspections and testing by testing laboratory will not be performed without their qualified technician on the job site. If, after giving notice to the testing lab, the work requiring inspection and/or testing is not performed and the testing lab must make a second trip to the job site, the Contractor shall reimburse City for technicians' time and travel expense. Where tests are required prior to Contractor starting work, Contractor shall arrange for testing far enough in advance so as not to delay the project or cause inconvenience to the testing lab.
- D. Contractor's Responsibility: The testing laboratory service provided for the job shall not relieve the Contractor of his responsibility for compliance with the requirements of the Contract Documents. Testing laboratory services are provided for the sole and exclusive benefit of the City in monitoring the quality and performance of the Contractor's work. Results of tests made by the testing laboratory will be made available to the Contractor and shall be a basis for rejection of non-conforming or defective work. Additional tests/inspections required by the City shall not be the basis for any claim by the Contractor for additional compensation.

1.08 TESTING LABORATORY RESPONSIBILITY

- A. General: Testing laboratory shall inspect, test and document work performed on this project as described hereinbefore.
- B. Test Reports: Promptly furnish test reports of materials and work tested to the Architect, Contractor, and Owner. Test reports shall include the name of the project, General Contractor, applicable Subcontractor, and Testing Laboratory, the locations, dates, and time samples were taken and tested, type of test, identification of sample, location in which the work sample was taken, record of weather conditions, evaluation of test results, conformance or non-conformance of test results with Contract Documents, name and signature of technician taking sample and performing tests, and any other information required by City representative.
- C. Inspection Reports: Furnish inspection reports for each site visit documenting activities, observations, and inspections of work; include observations on weather conditions, time and date, conditions and/or status of the work being inspected, actions taken, and recommendations or evaluation of the work. In addition to written reports, immediately notify City representative and Contractor of any portions of the work found to be in nonconformance with the Contract Documents.
 - 1. The testing lab will promptly process and distribute required copies of test reports and related instructions to ensure necessary retesting and replacement of materials with the least possible delay.
 - a. Re-tests of all work shall be specifically indicated by the term "Retest" and shall be sufficiently descriptive to designate the date, location, and original test information indicating why the original was not in compliance with documents.
 - 2. The Laboratory shall send all test reports to the City representative and the Contractor.
 - 3. Special Inspection Reports: Within twenty-four (24) hours after each special inspection, submit two (2) copies of inspection reports to the Contractor, City representative, and Sacramento City building official. Include the following:
 - Date Issued
 - Project Title and Number
 - Name of Inspector
 - Date and Time of Inspection
 - Identification of Specifications Section
 - Location in the Project
 - Type of Inspection or Test

Date of Test

Results of Tests and conformance with Contract Documents

- a. All Discrepancies shall be noted and brought to the attention of the Contractor for correction. If corrections are not made, notify the City representative and Sacramento City Building Official.
 - b. Final Special Inspection Reports shall be signed and submitted by the special inspector, and shall state whether the work requiring special inspection was, to the best of his knowledge, in conformance with the approved Drawings and Specifications and the applicable workmanship provisions of the the California Building Code, with Sacramento City Amendments.
- D. Codes: Conform to the requirements of the California Building Code, and other applicable sections and standards, and any special requirements of the local Building Official having jurisdiction.
- E. Limits of Authority: Testing laboratory is not authorized to:
1. Release, revoke, alter or enlarge on requirements of the Contract Documents.
 2. Approve or accept any portion of the work (as relates to the Contractor's obligation to conform to the Contract Documents.)
 3. Perform any duties of the Contractor.

1.09 CITY'S RESPONSIBILITY:

The City shall not be held liable for the actions (or lack of action) of the testing laboratory(s). The commencement of work by the Contractor shall indicate his understanding and agreement that all disputes or claims which may develop between the testing laboratory(s) and the contractor will be resolved directly between those two parties without involvement or responsibility on the part of the City, unless prior agreement is made in writing. Contractor shall advise the City of faulty inspections or tests performed by the testing laboratory but City shall not be held responsible for problems, damages, delays, replacement of defective work, etc. which may occur as result of the testing laboratory(s) faulty work in which case the Contractor's sole recourse shall be against the testing laboratory or other party at fault, but not against the City. Nothing in these specifications shall be construed as preventing the Contractor from hiring a separate testing laboratory to perform testing laboratory services, however, the recomended testing laboratory inspections and tests shall be the basis for acceptance or rejection of the work by the City unless such inspection or tests are proven to be in error.

1.10 MANUFACTURERS' FIELD SERVICES AND REPORTS

- A. Submit qualifications of observer to City representative 10 days in advance of required observations. Observer shall be subject to approval of City representative.
- B. When specified in individual specification Sections, require material or Product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, start-up of equipment, test, adjust, and balance of equipment as applicable, and to initiate instructions when necessary.
- C. Observers shall report observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written instructions.
- D. Submit report in duplicate within 10 days of observation to City representative for review.

1.11 QUALITY CONTROL (QC) SYSTEM:

- A. The QC system shall perform the following minimum requirements:
- B. Inspection Procedures: The Contractor's inspection procedure shall be reported on the Contractor's Daily Quality Control Report and shall conform to the following:
 - 1. Preparatory Inspection: Shall be performed by the Contractor prior to beginning any definable feature of work or job feature and shall include a preparatory phase conference with the City, and its consultants. Contractor shall submit a tentative schedule of upcoming preparatory conferences for approval with the quality control plan, and provide an outline of how the QC will implement the particular phase of work two (2) days prior to each scheduled preparatory conference, following the format indicated in the Preparatory Inspection Report Form provided by the City. The City will review this outline prior to the conference. The conference shall include:
 - a. A review of agreement requirements;
 - b. A check to assure that all materials and/or equipment have been tested, submitted, and approved;
 - c. A check to assure that provisions have been made to provide required testing;

- d. Examination of the work area for completion of all preliminary work.
 - e. A physical examination of required materials and equipment for conformance to approved shop drawings or submittal data.
2. Initial Inspection: Shall be performed by Contractor as soon as a representative portion of the particular feature of work is complete and shall include examination of the quality of workmanship as well as a review of control testing for compliance with agreement requirements.
 3. Follow-Up Inspection: Shall be performed by Contractor daily to assure continuing compliance with agreement requirements until completion of the particular feature of work.
- B. In addition to the three-phase inspection procedure, the Contractor's Quality Control representatives shall perform the following:
1. Perform detailed review, prior to submittal, of all shop drawings, certificates of compliance, and material and equipment submittals called for under these specifications. Certify with each submittal that all items therein are correct and in strict accordance with the agreement drawings and specifications except as may be otherwise expressly stated. Furnish submittals only after review and certification.
 2. Establish and maintain an effective quality control and inspection system, which will assure and document that all supplies and services conform to agreement requirements whether constructed or processed by the Contractor, or procured from subcontractors or vendors. Document the system as specified herein. Make all documents available for review by the City prior to the start of construction and throughout the life of the agreement, and notify the City representative in writing of any proposed change to his inspection system.
 3. Implement the system by the establishment of a quality control organization headed on a full-time basis by the Contractor's quality control representative (CQC), who shall be physically on the project site for the duration of the project, and whose responsibility is to insure compliance with the agreement. The CQC shall be assisted by other personnel, industry-recognized testing laboratories, or

manufacturer's representatives, who are qualified to perform the various inspections, tests, and equipment adjustments required.

4. Perform the number and type of tests required by the agreement specifications and by other publications referenced.
 5. Provide current records and documents as specified.
 6. Maintain an approved system for identifying the inspection status of supplies.
 7. Establish and maintain an effective system for controlling non-conforming material and removing materials and equipment which are not approved.
 8. Maintain full-size marked-up drawings with survey notes, sketches; nameplate data, pricing information, description, and serial numbers of all installed equipment; and other information depicting as-built conditions. Maintain this information in a current condition at all times until acceptance of the work and make it available for review by City personnel at all times. All variations from the agreement plans, for whatever reason, shall be indicated in the same general detail utilized in the agreement plans. This information shall be furnished to the City a minimum of two weeks prior to Contractor's Certification of Substantial Completion.
- C. After the agreement is awarded and before construction operations are started, the Contractor shall meet with the City and the City representative to discuss the QC system requirements. The meeting shall develop mutual understandings relative to system details, including the forms to be used for recording the inspections, administration of the system, and the interrelationship of Contractor and City inspection. Within five days after receipt of the "Notice to Proceed" the Contractor shall furnish to the City QC system plan which shall include the procedures, instructions, and reports to be used. Construction shall not start until the Quality Control plan is approved. This document shall include as a minimum:
1. The inspection organization.
 2. Number and qualifications of inspection personnel to be used.
 3. Authority and responsibilities of inspection personnel.
 4. Methods of inspection, including subcontractor's work.

5. Schedule for use of inspection personnel by types and phase of work.
 6. Test methods including, as specified, name of qualified testing laboratory to be used, if applicable.
 7. Schedule for use of non-Contractor personnel and facilities, such as manufacturer's representatives and approved testing laboratories.
 8. Method of documenting inspection and testing.
 9. A copy of a letter of direction to the Contractor's quality control representative, outlining CQC duties and signed by a principal officer of the firm.
- D. Provide and maintain all measuring and testing devices, laboratory equipment, instruments, transportation, and supplies necessary to accomplish the required testing and inspection to be performed by the Contractor. Calibrate all measuring and testing devices at established intervals against certified standards which have known valid relationships to national standards. Make the Contractor's equipment available for use by the City for verification of their accuracy and condition as well as for any inspection or test desired.
- E. Assure that the latest approved drawings, including shop drawings, specifications, and instructions required by the agreement, as well as authorized changes thereto, are used for fabrication, inspection, and testing.

1.04 QUALITY ASSURANCE BY CITY

- A. The Contractor's Quality Control inspection system is subject to evaluation and verification inspection by the City to determine its effectiveness in supporting the quality requirements established in the agreement. The City may require joint City-Contractor inspections at any time and on a periodic basis to evaluate the effectiveness of the Contractor's Quality Control system.
- B. The City reserves the right to inspect supplies, services, materials, and equipment required by this agreement. City inspection will not constitute acceptance; nor will it in any way replace Contractor inspection or

otherwise relieve the Contractor of his responsibility to monitor and control the quality of construction.

- C. The City may notify the Contractor of non-compliance with agreement provisions and the action to be taken. The Contractor shall immediately take corrective action. If the Contractor fails to comply promptly, the City may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to any such stop orders shall be made the subject of claim for extension of time or for excess costs or damages by the Contractor.

1.05 RECURRING DEFICIENCIES:

- A. In accordance with the General Conditions, the Contractor shall not build upon or conceal any feature of the work containing uncorrected defects. Payment on deficient items will be withheld until defects are satisfactorily corrected. The cost of additional City testing resulting from failure to comply with agreement requirements shall be deducted from the agreement amount.

IF RECURRING DEFICIENCIES INDICATE THAT THE QUALITY CONTROL SYSTEM IS NOT ADEQUATE, CORRECTIVE ACTION SHALL BE TAKEN AS DIRECTED AND PROGRESS PAYMENTS WILL BE WITHHELD UNTIL SUCH CORRECTIVE ACTION HAS BEEN COMPLETED.

1.06 DAILY RECORD

- A. The Contractor's Quality Control Inspectors shall maintain a daily record of all inspections and tests performed for each shift of Contractor or Subcontractor operations in the format directed. These records shall:
 - 1. Identify the project
 - 2. Include data on weather conditions
 - 3. Indicate the Contractor and/or Subcontractors working and their respective areas of responsibility
 - 4. List construction equipment, other than hand tools, at the job site and whether or not used on the report day.

5. Provide factual evidence that continuous quality control inspection and tests have been performed, including but not limited to the following:
 - a. maintenance of Shop Drawing and Submittal Register;
 - b. monitoring of equipment and materials upon arrival at the job site for compliance with approved shop drawings;
 - c. proper storage of equipment including documentation of this responsibility on the daily report;
 - d. type and number of inspections or tests involved; results of inspections or tests; nature of defects; causes for rejections; proposed remedial action; and corrective actions taken.
 6. Include a current record of all inspections.
 7. Include a signed statement that all supplies and materials incorporated in the work are in full compliance with the terms of the agreement.
- B. Furnish the City, on a daily basis, a legible copy of all inspection records for permanent retention. The daily record of inspections shall cover all work placement subsequent to the previous report and shall be verified by the Contractor's designated Quality Control representative. A sample of an acceptable Contractor Quality Control Report form shall be provided by the City. All specified tests or portions thereof, whether performed by the City or the Contractor, shall be recorded and attached to the daily report of the date upon which the test occurs. CQC shall record these tests on forms similar to the "Test Report" form provided by the City. The "Test Report" form shall be augmented as directed to include all of the test data required to provide a complete report.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

END OF SECTION 01400

SECTION 01500

CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

PART 1 GENERAL

1.01 DESCRIPTION:

A. Section Includes:

1. Temporary Utilities: Electricity, lighting, heat, ventilation, telephone service, water and sanitary facilities.
2. Temporary Controls: Barriers, enclosures and fencing, protection of the Work and water control.
3. Construction Facilities: Access roads, parking, progress cleaning, and temporary buildings.
4. Removal: Utilities, facilities, and controls.

B. Related Sections:

1. Section 01710: Cleaning.

1.02 TEMPORARY UTILITIES

A. Temporary Electricity:

1. Provide and pay for power service required from Utility source.

B. Temporary Lighting:

1. Provide and maintain lighting for construction operations to achieve minimum lighting level of 2 watts/sq ft. Provide additional lighting for finish work where and when needed, or as required by the Contract Documents.
2. Provide branch wiring from power source to distribution boxes with lighting conductors, pigtails and lamps as required.
3. Maintain lighting and provide routine repairs.

C. Temporary Heat:

1. Provide and pay for heat devices and heat as required to maintain specified conditions for construction operations. Comply with codes, agencies, and regulations regarding usage of temporary space heaters.

D. Temporary Ventilation:

1. Ventilate enclosed areas to:

- a. Assist cure of materials.
 - b. Dissipate humidity.
 - c. Prevent accumulation of dust, fumes, vapors, or gases.
 - d. Provide local exhaust ventilation to prevent harmful dispersal of hazardous substances into atmosphere at all times.
- E. Temporary Telephone and Facsimile (FAX) Service:
- 1. Provide, maintain and pay for telephone service and facsimile (Fax) on a dedicated line, to field office at time of project mobilization.
 - a. Toll calls shall be paid by party making call.
 - b. Equip phone with answering machine.
 - 2. Maintain services from start of work through building occupancy.
- F. Temporary Water Service:
- 1. Provide, maintain and pay for suitable quality water service required for construction operations.
- G. Temporary Sanitary Facilities:
- 1. Provide and maintain adequate number of required facilities and enclosures (see list below) for use of all persons and trades employed on Work during construction period.
 - a. Toilet facilities.
 - b. Washing facilities.
 - c. Other facilities as required.
- H. Temporary First Aid Facilities: Provide adequate first aid facilities for construction personnel.
- I. Temporary Fire Protection:
- 1. Take all precautions to prevent possibility of fire resulting from construction operations. Particularly avoid hazardous accumulations of rubbish and unsecured flammable materials.
 - 2. Provide emergency fire extinguishing equipment of adequate type and quantity, readily available and properly maintained.
 - 3. Keep local Fire Department's telephone number prominently displayed near telephone.
- 1.03 TEMPORARY CONTROLS
- A. Barriers and Fencing
- 1. Provide barriers to prevent unauthorized entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations.

2. Provide barricades and covered walkways required by governing authorities for public rights-of-way.
 3. Protect non-owned vehicular traffic, stored materials, site and structures from damage.
 4. Provide temporary commercial grade chain link fencing at the limits of construction for the duration of the project, until Project has been accepted or occupied by Owner. Maintain site fencing as needed and equip with vehicular gates with locks.
- B. Water Control:
1. Grade site to drain. Maintain excavations free of water. Provide, operate, and maintain pumping equipment.
 2. Protect site from puddling or running water. Provide water barriers as required to protect site from soil erosion.
 3. Exercise care in cleaning out equipment, etc., so as to prevent materials from clogging catch basins and yard drains.
 4. Leave all drainage items clean and in proper working condition.
- C. Dust Control:
1. Utilize water application or other methods approved by the local jurisdiction to control dust on access roads and the project site to the satisfaction of the Architect. Maintain dust control operation to prevent flying dust from leaving the project site. Use power sweepers for street cleaning as necessary.
 2. Vacuum clean interior surfaces of building prior to start of finish painting.
 3. Continue vacuum cleaning on as-needed basis until building is ready for Substantial Completion or Occupancy.
- D. Pollution Control:
1. Burning or burying of rubbish and waste materials on Site is prohibited. Provide dump box for collection of waste materials.
 2. Disposal of volatile fluid wastes (such as mineral spirits, oil or paint thinner) in storm or sanitary sewer systems is prohibited.
 4. Keep Site and surrounding areas clear of accumulations of waste material and rubbish resulting from operations under this Contract. Remove waste from Site immediately upon completion of Work.

E. Protection of Installed Work:

1. Do not remove temporary bracing and shoring until adequate permanent connections or structural elements are in final position and positively anchored.
2. Provide protective coverings at walls, projections, jambs, sills and soffits of opening.
3. Protect finished floors, stairs and other surfaces from traffic, dirt, wear, damage or movement of heavy objects, by protecting with durable sheet materials such as Tyvek.
4. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
5. Prohibit traffic from landscaped areas.

F. Vegetation Damage Control:

1. Protect all existing trees to remain on site from foliage, trunk, and root damage.
2. Provide barricades and maintain same around all trees, shrubs or other landscaped areas adjacent to work of this Contract to protect such areas from damage of any nature caused by construction operations.
3. Replace any plantings damaged or destroyed with plants of equivalent size, type and nature as approved by Architect.

G. Exterior Enclosures:

1. Provide temporary weather tight closure of exterior openings to accommodate acceptable working conditions and protection of Products, to allow for temporary heating and maintenance of required ambient temperatures identified in individual specification Sections, and to prevent entry of unauthorized persons.
2. Provide access doors with self-closing hardware and locks.
3. Provide temporary roofing as required.

H. Interior Enclosures:

1. Provide temporary partitions and ceilings as required to separate work areas from owner occupied areas, to prevent penetration of dust and moisture into Owner occupied areas, and to prevent damage to existing materials and equipment.
 2. Construction: Framing and reinforced polyethylene sheet materials with closed joints and sealed edges at intersections with existing surfaces in accordance with ASTM E90 (maximum Flame Spread Rating of 75) and in accordance with ASTM E84.
- I. Security:
1. Provide security and facilities to protect Work from unauthorized entry, vandalism or theft.
 2. Provide temporary locks at all exterior doors after building is enclosed.
 3. Coordinate with Owner's Security program.

1.04 CONSTRUCTION FACILITIES

A. Access Roads

1. Construct and maintain temporary access to public thoroughfares to serve construction area.
2. Relocate as Work progress requires. Provide detours necessary for unimpeded traffic flow.
3. Provide and maintain access to fire hydrants, free of obstructions.
4. Provide means of removing mud from vehicle wheels before entering streets. Any dirt, mud or other debris tracked onto streets must be removed immediately.
5. Provide barricades, warning signs, flagmen or other traffic regulators which may become necessary for protection of public, construction personnel and property.

B. Parking:

1. Arrange for temporary parking areas to accommodate construction personnel, project visitors and Owner's Employees.
2. When site space is not adequate, provide additional off-site parking as allowed by the local jurisdiction
3. Do not allow construction personnel vehicle or equipment parking on existing pavement.

4. Designate one parking space each for Owner, and Architect.
- C. Progress Cleaning:
1. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
 2. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces and other closed or remote spaces prior to enclosing the space.
 3. Broom and vacuum clean interior areas prior to the start of surface finishing and continue cleaning to maintain a dust-free space during the finishing operations.
 4. Remove waste materials, debris, and rubbish from site periodically and dispose off-site.
- D. Project Identification:
1. Provide one 4 x 8 foot project sign of MDO exterior grade plywood and wood frame construction, painted with exhibit lettering by professional sign painter to Architect's design and colors. Design supports, framing and surfaces to resist a minimum of 50 mph wind velocity.
 2. List title of project and logo, names of Owner, Architect, and Contractor as defined by the Architect's design.
 3. Erect on the site at location established by the City representative.
 - a. Comply with requirements of authorities having jurisdiction.
 - b. Obtain and pay for any required permits.
 4. No other signs will be allowed without the City representative 's permission except those signs required by law.
- E. Field Offices and Sheds:
1. General: Furnish and install field office building(s) adequate in size and accommodation for all Contractor's offices, job site meetings, superintendent's office, supply room, tool room, and City representative. Contractor shall provide telephone and fax connection for City representative's use as needed.
 2. The Contractor will provide the City representative with a space adequate in size and accommodation for job site meetings, and includes; a desk/chair, phone, phone line, computer connection access and use of facsmile and copy machines (when applicable).
 - 3.

1.05 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

- A. Remove temporary above grade or buried utilities, equipment, facilities, materials, prior to Substantial Completion inspection.
- B. Clean and repair damage caused by installation or use of temporary work.
- C. Restore City's property, and adjacent private and public property damages or used during construction, to original condition. Restore permanent facilities used during construction to specified condition.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

END OF SECTION 01500

SECTION 01600

MATERIAL AND EQUIPMENT

PART 1 - GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE:

- A. Warranty: Section 01700.
- B. Shop Drawings, Coordination Drawings and Schedules: Section 01300.
- C. Manufacturer's Data/Samples: Section 01300.

1.02 MATERIAL AND EQUIPMENT SELECTION:

- A. Comply with Standards and Specifications, including: size, make, type and quality specified.
- B. Use material or equipment only for purpose for which it is designed or is specified.
- C. All materials and products used in the construction of this project will be asbestos free in accordance with all applicable Federal, State and Local Authorities and Regulatory Agencies.

1.03 TRANSPORTATION AND HANDLING:

- A. Arrange deliveries of products in accord with construction schedules, coordinate to avoid conflict with work and conditions at the site.
 - 1. Deliver products in undamaged condition, in manufacturer's original containers or packaging, with identifying labels intact and legible.
 - 2. Immediately upon delivery, inspect shipments to assure compliance with requirements of Contract Documents and assure products are properly protected and undamaged.
 - 3. The Contractor shall promptly return all defective materials without waiting for their rejection by the City representative.
- B. Provide equipment and personnel to handle products by methods to prevent soiling or damage to products or packaging.

1.04 STORAGE AND PROTECTION:

- A. Store products in accord with manufacturer's instructions, with seals and labels intact and legible.

1. Store products subject to damage by the elements in weathertight enclosures.
2. Maintain temperature and humidity within the ranges required by manufacturer's instructions.

B. Exterior Storage:

1. Store fabricated products above ground, on blocking or skids, prevent soiling or staining. Cover products which are subject to deterioration with impervious sheet coverings, provide adequate ventilation to avoid condensation.
2. Store loose granular materials in a well-drained area on solid surfaces to prevent mixing with foreign matter.

C. Inspection: Arrange in a manner to provide easy access for inspection. Make periodic inspections of stored products to assure that products are maintained under specified conditions, and free from damage or deterioration.

D. Protection After Installation:

1. Provide substantial coverings as necessary to protect installed products from damage from traffic and subsequent construction operations.
2. Plug or cap pipe and conduit openings to prevent the entrance of foreign matter.
3. Remove when no longer needed.

1.05 ALIGNING JOINTS IN FINISH MATERIALS:

A. It shall be the responsibility of the Contractor to make certain in the installation of jointed floor, wall, and ceiling materials that:

1. The joints align through in a straight line and in both directions wherever possible.
2. The joints shall be symmetrically placed wherever possible.
3. If, because of the non-related sizes of the various materials and locations of openings, etc., it is not possible to accomplish the above, the Contractor shall meet the City representative at the site to determine the most satisfactory arrangement. The Contractor shall establish center lines for all trades.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

END OF SECTION 01600

SECTION 01615
DELIVERY, STORAGE AND HANDLING

PART 1 - GENERAL

1.01 REQUIREMENTS

- A. Provide for expeditious transportation and delivery of products to project site undamaged, on a schedule to avoid delay of the work.
- B. Provide equipment and personnel at the site to unload and handle products in a manner to avoid damage to products.
- C. Provide secure storage and protection for products to be incorporated into the work, and maintenance and protection for products after installation and until completion of the work.

1.02 DELIVERY

- A. Arrange deliveries of products in accord with construction schedules and in ample time to facilitate inspection prior to installation.
- B. Coordinate deliveries to avoid conflict with work and conditions at site.
 - 1. Work of other contractors, or the City .
 - 2. Limitations of storage space.
 - 3. Availability of equipment and personnel for handling products.
- C. Deliver products in undamaged condition in original containers or packaging, with identifying labels intact and legible.
- D. Partial deliveries of component parts of equipment shall be clearly marked to identify the equipment, to permit easy accumulation of parts and to facilitate assembly.
- E. Immediately upon delivery, inspect shipment to assure:
 - 1. Product complies with requirements of Contract Documents and reviewed submittals.
 - 2. Quantities are correct.
 - 3. Containers and packages are intact, labels are legible.
 - 4. Products are properly protected and undamaged. Minor damages may be repaired, with approval of the City representative, provided the finish items are equal in all

respects to new work.

1.03 PRODUCT HANDLING

- A. Provide equipment and personnel necessary to handle products, by methods to prevent soiling or damage to products or packaging.
- B. Provide additional protection during handling as necessary to prevent scraping, marring, or otherwise damaging products or surrounding surfaces.
- C. Handle products by methods to prevent bending or overstressing.
- D. Lift heavy components only at designated lifting points.

1.04 STORAGE

- A. Store products immediately on delivery, and protect until installed in the work. Store in accord with manufacturer's instructions, with seals and labels intact and legible.
- B. Store products subject to damage by elements in substantial weather-tight enclosures.
 - 1. Maintain temperatures within ranges required by manufacturer's instructions.
 - 2. Provide humidity control for sensitive products, as required by manufacturer's instructions.
 - 3. Store unpacked products on shelves, in bins, or in neat piles, accessible for inspection.
- C. Exterior Storage:
 - 1. Provide substantial platforms blocking, or skids to support fabricated products 4" above ground, prevent soiling or staining.
 - 2. Cover products, subject to discoloration or deterioration from exposure to the elements, with impervious sheet coverings. Avoid use of non-vented plastic or canvas shelters that could create humidity chambers. Provide adequate ventilation to avoid condensation.
 - 3. Store loose granular materials on solid surfaces such as paved areas, or provide plywood or sheet materials to prevent mixing with foreign matter.
 - a. Provide surface drainage to prevent flow or ponding of rainwater.
 - b. Prevent mixing of refuse or chemically injurious materials or liquids.

- D. Arrange storage in manner to provide easy access for inspection.
- 1.05 MAINTENANCE OF STORAGE
- A. Maintain periodic system of inspection of stored products on schedules basis to assure that:
 - 1. State of storage facilities is adequate to provide required conditions.
 - 2. Required environmental conditions are maintained on continuing basis.
 - 3. Surfaces of products exposed to elements are not adversely affected. Any weathering of products, coatings, and finishes is not acceptable under requirement of Contract Documents.
- 1.06 PROTECTION AFTER INSTALLATION
- A. Provide protection of installed products to prevent damage from subsequent operations. Remove when no longer needed, prior to completion of work.
 - B. Control traffic to prevent damage to equipment and surfaces.
 - C. Provide coverings to protect finished surfaces from damage.
- 1.07 DAMAGED PRODUCTS
- A. Damaged or deteriorated materials shall be removed from the premises. Replace materials that have been damaged.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

END OF SECTION 01615

TO:

PROJECT:

SPECIFIED ITEM: _____

SECTION: _____ PAGE: _ PARAGRAPH: _____ DESCRIPTION: _____

The undersigned requests consideration of the following:

PROPOSED SUBSTITUTION:

Attached data includes product description, specifications, drawings, photographs, performance and test data adequate for evaluation of the requests; applicable portions of the data are clearly identified. Attached data also includes description of changes to Contract Documents which proposed substitution will require for its proper installation.

The undersigned states that the following paragraphs, unless modified on attachments, are correct:

1. The proposed substitution does not affect dimensions shown on Drawings.
2. The undersigned will pay for changes to the building design, including engineering, design, detailing and construction costs caused by the requested substitution.
3. The proposed substitution will have no adverse affect on other trades, the construction schedule or specified warranty requirements.
4. Maintenance and service parts will be locally available for the proposed substitution.

The undersigned further states that the function, appearance and quality of the proposed substitution are equivalent or superior to the specified item.

Submitted by: _____ Title: _____

Signature: _____ Date: _____

Firm: _____ Phone: _____

Address: _____

Attachments:

Accepted: City _____ NLA _____ Rejected: City _____ NLA _____

By: _____ Date: _____ (City)

By: _____ Date: _____ (NLA)

SECTION 01630

SUBSTITUTION REQUESTS / EQUALS

PART 1 - GENERAL

1.01 DESCRIPTION

A. General:

1. This Section describes procedures for submitting, processing, and handling of requests for substitution and product options. Any substitution or option shall be in accordance with provisions of Contract Documents.
2. See Instructions to Bidders and General Conditions for additional information.

B. Address submittals to City representative.

1.02 PRODUCT SELECTION - GENERAL

- A. Base all bids on materials, equipment and procedures specified.
- B. Certain types of equipment and kinds of material are described in Specifications by means of trade names, catalog numbers and/or manufacturer's names. This is not intended to exclude from consideration other items which may be capable of accomplishing the purpose indicated.
- C. Other types of equipment and kinds of material may be acceptable to Owner and Architect. (Prior approval required; see substitution request form at the end of this section).
- D. Listing of a manufacturer implies acceptance of them only as supplier of a product which complies with specified item.
- E. Equipment, materials and methods of construction, if not specifically indicated, must be approved in writing by Architect/Engineer and be agreed upon by Owner prior to letting of Contract.
- F. City reserves the right to require substitute items to comply color- and pattern-wise with base specified items, if necessary to achieve "design intent."
- G. No substitution will be permitted after letting of Contract, except as indicated herein.

H. Conditional bids and voluntary alternates will not be considered.

1.03 CONTRACTOR'S OPTIONS

- A. For products specified only by reference standards, any product meeting standards may be used.
- B. For products specified by naming several products or manufacturers, use any product or manufacturer named.
- C. For products specified by naming one manufacturer and product, and several optional manufacturers or products, select any named product and manufacturer which meets all specification criteria.
 - 1. Contract Documents are based upon use of primary manufacturer.
 - 2. By use of optional manufacturer or product, Contractor acknowledges that he will be responsible for all adjustments to fit product to the Work and for providing all additional work, equipment, and services required by use of product, at no additional cost to Owner.

1.04 REQUESTS FOR SUBSTITUTION / OR EQUALS

- A. Use form provided at the end of this section.
- B. Request constitutes a representation that Contractor:
 - 1. Has investigated proposed product and determined that it meets or exceeds, in all respects, specified product.
 - 2. Will provide the same warranty for substitution as for specified product.
 - 3. Will coordinate installation and make other changes which may be required for work to be complete in all respects.
 - 4. Waives claims for additional costs which may subsequently become apparent.
- C. Substitutions will not be considered when they are indicated or implied on Shop Drawings or product data submittals without separate written request, or when acceptance will require substantial revision of Contract Documents.
- D. Only one request for substitution will be considered for each product. When substitution is not accepted, specified product shall be provided.
- E. Failure of Contractor to submit proposed substitutions for review in the manner specified and within the time prescribed shall be sufficient cause for disapproval by City representative of any substitutions so proposed.

1. Where proposed substitutions are unacceptable to the City representative and originally specified item is not available through no fault of the Contractor, the City representative shall select an alternate product. When such a selection results in a change to the Contract Cost or the Contract Time, the Contract shall be adjusted in accordance with the "General Conditions of the Contract for Construction."
- F. Contractor shall certify that each product submitted as a substitution is considered asbestos free in accordance with all applicable regulations of Federal, State and Local Authorities and Regulatory Agencies.
- G. "Or Equals" must be pre-approved prior to bid date.
1. Unless otherwise indicated, no item, material, or process will be reviewed later than 10 days prior to the Bid Date.
 2. All requests for pre-approval must be in writing.
 3. All items, materials or processes that are to be considered for pre-approval must be submitted in the manner described in the individual Specification Sections in which they appear, and must include all required and necessary support information, certificates, and product information needed for evaluation. Responsibility for assembling and providing adequate review material is solely that of the pre-approval applicant. Adequacy of the material submitted will be determined solely by the Architect, whose decision will be final.
 4. Inadequate applications will not be reviewed. Neither the Architect nor the Owner has an obligation to notify applicants of inadequate applications prior to the established cut-off dates for review.
 5. City has an obligation to review proposed equals prior to Bidding unless pre-approval of a particular material, method or item of equipment is expressly required in the Specifications.

1.05 SUBMITTAL DATA

- A. Complete data substantiating compliance of proposed substitution with Contract Documents. (Note: It is the responsibility of the submitter to supply the City representative with complete description and technical information so that the City representative can properly appraise the submittal. Lack of proper and sufficient information will be sufficient cause for rejection. Burden of proof of merit of requested substitution is on submitter.)
- B. For products:
1. Products identification, including manufacturer's name.

2. Manufacturer's literature, marked to indicate specific model, type, size, and options to be considered:
 - a. Product description.
 - b. Performance and test data.
 - c. Reference standards.
 - d. Difference in power demand, air quantities, etc.
 - e. Dimensional differences from specified unit.
3. Full size samples if requested. City representative reserves the right to retain the sample until physical units are installed on project for comparison purposes. Requester will pay all costs of furnishing and return of samples. City is not responsible for loss of, or damage to, samples.
4. Name and address of similar projects and name of City's Representative who can be contacted to discuss product, installation, and field performance data.
5. List other local projects for which the submitted product has been approved for use.
6. For construction methods:
 - a. Detailed description of proposed method.
 - b. Illustrate on drawings.
7. Itemized comparison of proposed substitute to specified item.
8. Data relating to changes in construction schedule.
9. Relation to separate contracts.
10. Cost of proposed substitution in comparison with product or method specified.

1.06 SUBSTITUTION AFTER BID DATE

- A. No substitutions will be considered after bid date except for: Non-availability of specified item due to strikes, lockouts, bankruptcy, discontinuance of production, proven shortage, or similar occurrences or when the contractor pays the City a credit acceptable to the.
- B. Notify City, in writing with substantiating data as soon as non-availability becomes apparent, to avoid delay in construction.
- C. Forward submittal data as required for substitutions above.

1.07 REJECTION OF SUBSTITUTION OR "EQUALS"

- A. Substitutions and/or "Equals" will not be considered if:
 1. They are indicated or implied on shop drawings, or project data submittals, without formal request submitted in accordance with this Section.
 2. Acceptance will require substantial revision of Contract Documents or building spaces.

3. Request for substitution does not indicate specific item for which request is submitted. Acceptance of a manufacturer only will not be made.

1.08 PRIOR APPROVALS

- A. Prior approval does not automatically mean equipment is approved. Final submittals and shop drawings shall be made as required by the Specifications for final approval of all equipment and materials. Any changes required due to substitution is the Contractor's responsibility.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

END OF SECTION 01630

SECTION 01700

CONTRACT CLOSEOUT

PART 1 GENERAL

1.01 DESCRIPTION:

- A. Section Includes:
 - 1. Description of Requirements.
 - 2. Closeout Procedures.
 - 3. Record Document Submittals.
 - 4. Final Cleaning.
 - 5. System Start-Up.
 - 6. Testing.
 - 7. Training.
 - 8. Adjusting and Balancing.
 - 9. Operation and Maintenance Data.
 - 10. Warranties and Bonds.
 - 11. Spare Parts and Maintenance Materials.
 - 12. Prerequisites to Substantial Completion.
 - 13. Prerequisites to Final Acceptance.
- B. Related Sections:
 - 1. Section 01010 - Summary of Work.

1.02 GENERAL REQUIREMENTS

- A. Definitions: Project Closeout is the terminology used to describe certain collective project requirements, indicating completion of Work, that shall be fulfilled near end of Contract time in preparation for Final Acceptance and occupancy of Work by the Owner, as well as final payment to Contractor and normal termination of Contract.
- B. Time of Contract Closeout is directly related to "Substantial Completion"; therefore, time of closeout may be either single time period for entire Work or series of time periods for individual elements of Work that have been certified as substantially complete at different dates. This time variation, if any, shall be applicable to other provisions of this Section.

1.03 CLOSEOUT PROCEDURES

- A. Submit written certification that Contract Documents have been reviewed, Work has been inspected, and that Work is complete in accordance with Contract Documents and ready for City's review.
- B. Provide submittals to City representative that are required by governing or other authorities.

- C. Submit written request for final Application for Payment identifying total adjusted Contract Sum, previous payments, and sum remaining due.

1.04 RECORD DOCUMENT SUBMITTALS

- A. General: Specific requirements for Record Documents are indicated in individual Sections of these Specifications. Other requirements are indicated in General Conditions. General submittal requirements are indicated in Section 01340 - Shop Drawings, Product Data, and Samples.
- B. Do not use Record Documents for construction purposes. Protect from deterioration and loss.
 - 1. City representative will monitor Record Documents and compare to Contractor's payment application on monthly basis.
 - 2. Up-to-date Record Documents are prerequisite to Final Acceptance and approval of Final Payment Request.
- C. Record Drawings:
 - 1. Maintain record set of blue or black line prints of Contract Drawings and Shop Drawings in clean, undamaged condition. Accurately indicate depth of all concealed mechanical items, buried piping, locations of cleanouts, etc., from walls and centerlines utilizing standard industry practice. Provide to the City representative prior to acceptance of the completed project one complete set of construction documents revised to show "As-Installed" conditions, including addenda and change order items.

Recording "As Built" Conditions:

- a. Record information carefully and neatly, with red ink on "Record Drawing" Set kept on site.
- b. Label each sheet "Record Drawing" in large, neat red letters. Label the record copy of other documents "Record".
- 3. Record the following information on the site "Record Drawings". Obtain verification of changes by Inspector's initialing of each change.
 - a. Changes made by Change Orders and other modifications.

- b. Locations of Work buried under and outside the building; such as plumbing and electrical lines and conduits. Establish locations of underground Work by dimensions to column lines or walls, locating turns, and by centerline or invert elevations and rates of fall.
- c. Locations of significant Work concealed inside the building whose general locations have been changed, as approved, from those shown on the Contract Documents. Give sufficient information to easily locate work concealed in the building.
- d. Locations of items, not necessarily concealed, which have been changed, as approved, from the locations shown on the Contract Documents.
- e. Nameplate data, description, and serial numbers of all equipment on equipment schedules.
- f. In addition to the previously specified requirements for Record Drawings:
 - 1. Keep up to date during the progress of the Work; make available to the City at any time.
 - 2. Furnish additional drawings as necessary for clarification.
 - 3. Record deviations from the sizes, locations and other features of installations shown in the Contract Documents.
 - 4. Drawing to scale:
 - a) Locate main runs of piping, conduit, ductwork and similar items by dimensions.
 - b) Locate other items either by dimensions or in relation to spaces within the building.
 - 5. Furnish clean Record Drawings, made from final Shop Drawings that have been updated to show actual conditions, as specified in the individual specification sections.
- D. Transmit to the City at time of acceptance of the Work and prior to final payment, using the site record drawings for reference, prepared final "Record As-Built Drawing" drawings on permanent, reproducible prints of original Construction Documents and all shop drawings.

In addition, provide one copy of all Record As-Built Drawings in AutoCad format (version 2005 or later) and one PDF copy of same drawings. AutoCad drawings shall be fully modifiable.

- E. Specifications and Addenda:
1. Mark each Specification Section to record:
 - a. Manufacturer, trade name, catalog number and supplier of each product and item actually incorporated in the Work.
 - b. Changes made by Change Order and other modifications.
- F. Large-scale layout drawings:
1. The preparation of large-scale, detailed layout drawings may be required for the work of Division's 15 and 16 of these Specifications. These layout drawings are not Shop Drawings as defined by the Contract Documents, but, together with Shop Drawings or layout drawings of other affected Work, are used to check, coordinate and integrate the various types of work.
 2. If furnished, include the layout drawings as part of the Project Record Drawings.
- G. Sign and date the completed Project Record Documents and submit them to the City for review and acceptance prior to any request for verification of Substantial Completion.
1. Mark-up set of Record Drawings to show actual installation where installed work varies substantially from work as originally shown.
 2. Mark whichever Drawing (Contract Drawings or Shop Drawings), are most appropriate and most capable of showing actual "field" condition fully and accurately. Consolidate information on complete systems or units of work on minimum number of Drawing Sheets required to properly document changes.
 3. Give particular attention to concealed work that would be difficult to measure and record at later date.

4. Mark record set with red erasable pencil and where feasible, use other color to distinguish between variations in separate categories of Work.
5. Show all backing material and other embedded or concealed items required for installation of future work by the City.
6. Organize Record Drawing sheets into manageable sets, separated by construction discipline, and bind with durable cover sheet. Print suitable titles, dates and other identification on cover of each set.

D. Record Specifications:

1. Maintain one complete copy of Project Manual, including Specifications and Addenda, and one copy of other written Construction Documents such as change orders, supplemental instructions and similar modifications issued in printed form during construction.
2. Mark these documents to show substantial variations in actual Work performed in comparison with text of Specifications and modifications issued.
3. Note related Record Drawing information and Product Data, where applicable.
4. Upon completion of Work, submit Record Specifications to City representative for City's records. Provide one copy of Record Specifications in modifiable Microsoft Word (Version 2003 or later) and one PDF copy.

E. Record Product Data:

1. Maintain one copy of each Product Data submittal approved for Project.
2. Mark documents to show significant variations in actual work performed in comparison with submitted information.
3. Include both variations in products as delivered to Site and variations from manufacturer's instructions and recommendations for installation.
4. Give particular attention to concealed products and portions of Work that cannot otherwise be readily discerned at later date by direct observation.

5. Note related change orders and markup of Record Drawings and Record Specifications.
6. Upon completion of mark-up, and no later than Final Acceptance of the Project, provide written verification that all Record Product Data has been transmitted to City representative for City's records. Provide one copy of all Record Product Data in PDF format.

F. Record Sample Submittal:

1. Immediately prior to date or dates of Substantial Completion, Contractor shall meet at Site with City representative(s) to determine which, if any, of submitted Samples that have been maintained by Contractor during progress of Work, shall be submitted to Owner for record purposes.
2. Comply with delivery to City's designated location.

G. Miscellaneous Record Submittals:

1. Refer to other Sections of these Specifications for requirements of miscellaneous record keeping and submittals in connection with actual performance of work.
2. Immediately prior to date or dates of Substantial Completion complete miscellaneous records and place in good order, properly identified and bound and filed, ready for continued use and reference.
3. Submit to City representative for Owner's records.

1.05 FINAL CLEANING

A. Cleaning: Provide final cleaning of Work prior to Final Inspection at time indicated. Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit of work to condition expected from normal commercial building cleaning and maintenance program. Comply with manufacturer's recommendations. Complete following cleaning operations before requesting City representative's review for Certification of Substantial Completion:

1. Clean equipment and fixtures to sanitary condition.
2. Clean or replace filters of operating equipment.
3. Clean debris from roofs, gutters, downspouts, and drainage systems.

4. Clean mechanical and electrical equipment and spaces, including tops of pipes, ducts, equipment, etc.
 5. Re-clean areas or equipment, after final inspection, if dirtied as result of Contractor's work in preparing for final inspection or completion of punchlist.
- B. Removal of protection: Except as otherwise indicated or requested by City representative, remove temporary protection devices and facilities which were installed during course of Work to protect previously completed Work during remainder of construction period or to protect public.
- C. Compliance:
1. Comply with safety standards and governing regulations for cleaning operations.
 2. Do not burn waste materials at Site.
 3. Do no bury debris or excess materials on Owner's property.
 4. Do not discharge volatile or other harmful or dangerous materials into drainage systems.
 5. Remove waste materials from Site and dispose of in lawful manner. Recycle all potential recyclables at nearest recycling center.

1.06 WARRANTIES

- A. Submittal Form:
1. Issue copies of each warranty as indexed section of Operation and Maintenance Manual.
 2. Separate each warranty with index tab sheets keyed to Table of Contents listing. Provide full information, using separate typed sheets as necessary. List Subcontractor, supplier and manufacturer, with address and telephone number of responsible principal.
- B. Preparation of Submittals:
1. Obtain warranties executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within ten days after completion of applicable item or work. Except for items put into use with City's permission, leave date of beginning of time of warranty until Date of Substantial Completion is determined.

2. Verify that documents are in proper form, and contain full information.
3. Provide one copy of all warranties and guarantees in PDF format.
- 4 Retain warranties and bonds until time specified for submittal. All warranties and bonds shall be notarized.

1.07 PREREQUISITES TO SUBSTANTIAL COMPLETION

- A. General: If applicable, complete the following before requesting City representative's review for certification of Substantial Completion, either for entire Work or for portions of Work. List known exceptions in request.
1. In progress payment request that coincides with, or is first request following date Substantial Completion is claimed, show either 100% completion for portion of Work claimed as "substantially complete", or list incomplete items, value of incomplete Work, and reason for Work being incomplete.
 2. Include supporting documentation for completing as indicated in these Contract Documents.
 3. Submit statement showing accounting of changes to Contract Sum.
 4. Submit specific warranties, workmanship/maintenance bonds, maintenance agreements, final certifications and similar documents.
 5. Deliver tools, spare parts, extra stock of material and similar physical items to the City.
 6. Complete final cleanup requirements, including touch-up painting of blemished surfaces.
 7. Obtain other approvals i.e. County Health as required.
 8. Complete major punchlist items.
 9. Contractor shall submit copy of Contractor's Punchlist to City representative, clearly stating that building is ready for review with exception of items noted in Contractor's Punchlist.
- B. Review procedure: Upon receipt of Contractor's request for review, City representative will either proceed with review or advise Contractor of unfulfilled prerequisites.

- C. Following initial review, City representative will either prepare Certificate of Substantial Completion or will advise Contractor of Work that must be performed before Certificate will be issued.
- D. Results of completed review will form initial "punchlist" for final acceptance.

1.08 FINAL INSPECTION

- A. When Contractor considers Work complete, he shall submit written certification that:
 - 1. Contract Documents have been reviewed.
 - 2. Contractor has inspected Work for compliance with Contract Documents.
 - 3. Work has been completed in accordance with Contract Documents.
 - 4. The Project, properties, and streets are finally cleaned of debris and dirt caused by Contractor operations.
 - 5. Work is complete and ready for final inspection.
- B. City representative will inspect Work to verify completion status as soon as possible after receipt of Contractor's certification.
- C. Should City representative consider Work incomplete or defective:
 - 1. Architect will promptly notify Contractor in writing listing incomplete or defective work.
 - 2. Contractor shall immediately remedy deficiencies, and send second written certification to City representative that the Work is complete.
 - 3. City representative will re-inspect the Work.
- D. When City representative finds the Work acceptable under Contract Documents, the Contractor shall make closeout submittals.

1.09 REINSPECTION FEES

- A. Should City representative be required to make more than two Substantial inspections or one Final inspection due to Contractor's failure to correct specified deficiencies, the Contractor shall bear all costs (including compensation for the City representative's additional services) made necessary thereby.

1.10 EVIDENCE OF PAYMENTS AND RELEASE OF LIENS

- A. Contractor shall submit to the City representative the following:
 - 1. Contractor's Affidavit of Payment of Debt and Claims

2. Contractor's Affidavit of Release of Liens

- a. Contractor's Release or Waiver of Liens.
- b. Separate releases or Waivers of Lien for each Subcontractor, supplier, and others with lien rights against City's property, together with list of those parties.

B. Duly sign and execute all submittals, before delivery to Architect.

1.11 FINAL ADJUSTMENT OF ACCOUNTS

A. Submit final statement of accounting to City representative, including the following:

- 1. Original Contract Sum.
- 2. Additions and deductions resulting from:
 - a. Previous Change Orders.
 - b. Deductions for uncompleted Work. (if any)
 - c. Deductions for Liquidated Damages. (if any)
 - d. Deductions for Re-inspection Payments (if any)
- 3. Total Contract Sum, as adjusted.
- 4. Previous Payments
- 5. Sum remaining due.

B. The City representative will prepare and issue final Change Order, reflecting approved adjustments to Contract Sum not previously made by Change Orders.

1.12 FINAL APPLICATION FOR PAYMENT

A. Follow procedures specified in General and Supplementary General Conditions.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

END OF SECTION 01700

SECTION 01710
CLEANING

PART 1 GENERAL

1.01 GENERAL REQUIREMENTS

- A. Work included: Throughout the construction period, maintain the project site where work is carried out in a standard of cleanliness as described in this section.
- B. Related work described elsewhere: In addition to standards described in this Section, comply with all requirements for cleaning as described in other various Sections of these Specifications.

1.02 QUALITY ASSURANCE

- A. Inspection: Conduct daily inspection, and more often if necessary, to verify that requirements of cleanliness are being met.
- B. Codes and Standards: In addition to the standard described in this section, comply with all pertinent requirements of governmental agencies having jurisdiction.

PART 2 PRODUCTS

2.01 CLEANING MATERIALS AND EQUIPMENT

- A. Provide all required personnel, equipment, and materials needed to maintain specified standard of cleanliness.

PART 3 EXECUTION

3.01 PROGRESS CLEANING

- A. General:
 - 1. Retain all stored items in an orderly arrangement allowing maximum access, not impeding drainage or traffic, and providing the required protection of materials.
 - 2. Do not allow the accumulation of scrap, debris, waste material, and other items not required for construction of this Work.
 - 3. Provide adequate storage for all items, awaiting removal from the job site, observing all requirements for fire prevention and protection of the ecology.
- B. Site:
 - 1. Weekly, and more often if necessary, inspect all arrangements of materials stored on the site; restack, tidy, or otherwise service. All arrangements to meet the

requirements of paragraph 3.01, A.1. above.

2. Maintain the site in a neat and orderly condition at all times to the satisfaction of the City.

3.02 DUST CONTROL

- A. Maintain continuous cleaning and wetting procedures to control dust pollution at project site and haul routes as required by governing authorities and the Contract Documents. Use power sweepers for street cleaning.
- B. Schedule cleaning so that resultant dust and contaminants will not fall on wet or newly coated surfaces.

3.03 FINAL/CLOSEOUT CLEANING

- A. Cleaning: Provide final cleaning of Work prior to Final Inspection at time indicated. Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit of work to condition expected from normal commercial building cleaning and maintenance program. Comply with manufacturer's recommendations. Complete following cleaning operations before requesting City representative's review for Certification of Substantial Completion:
 1. Clean equipment and fixtures to sanitary condition.
 2. Clean or replace filters of operating equipment.
 3. Clean debris from roofs, gutters, downspouts, and drainage systems.
 4. Clean mechanical and electrical equipment and spaces, including tops of pipes, ducts, equipment, etc.
 5. Remove grease, mastic, adhesives, dust, dirt, stains, fingerprints, labels and other foreign matter from sight exposed interior and exterior surfaces.
 6. Hose-clean exterior paved surfaces, rake clean other surfaces of grounds.
 7. Re-clean areas or equipment, after final inspection, if dirtied as result of Contractor's work in preparing for final inspection or completion of punchlist.
- B. Removal of protection: Except as otherwise indicated or requested by City representative, remove temporary protection devices and facilities which were installed during course of Work to protect

previously completed Work during remainder of construction period or to protect public.

C. Compliance:

1. Comply with safety standards and governing regulations for cleaning operations.
2. Do not burn waste materials at Site.
3. Do not bury debris or excess materials on Owner's property.
4. Do not discharge volatile or other harmful or dangerous materials into drainage systems.
5. Remove waste materials from Site and dispose of in lawful manner.

END OF SECTION 01710

SECTION 01730

OPERATION AND MAINTENANCE MANUALS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.02 DESCRIPTION

A. Compile product data and related information appropriate for Owner's maintenance and operation of products furnished under the Contract. Prepare operating and maintenance data as specified in this section and as referenced in other pertinent sections of specifications.

1. Contractor shall submit videotaped instruction for selected procedures in addition to written/pictorial instruction specified herein. Consult with City representative to determine applicable procedure prior to beginning videotaping.

Submit clear, clean and concise information as specified in this section and as referenced in other sections of specifications to the City representative for incorporation in an operating and maintenance manual.

1.03 RELATED WORK SPECIFIED ELSEWHERE

A. Shop Drawings, Product Data and Samples: Section 01340

Contract Closeout: Section 01700

Project Record Documents: Section 01780

Equipment Demonstration and Owner Personnel Instruction: Section 01735

Warranties and Bonds: Section 01750

1.04 QUALITY ASSURANCE

Operation and maintenance manuals will be for training of and use by the City's personnel in the operation and maintenance of the systems and related equipment, if applicable, as specified below. The manuals shall consist of instructions on systems and equipment.

Verify with all technical specifications the requirements for systems/products for O&M manuals.

1.05 INDEX

- A. Information shall be complete and specific to this Project application. All material must be neat and legible.

Information shall be submitted on sheets measuring 8-½ inches by 11 inches except drawings which should not exceed 11 inches by 17 inches. Larger drawings may be provided in clear plastic protective type pockets.

Text information shall be manufacturers' printed data or neatly typewritten.

Clearly label each submittal for each piece of equipment or product separately called for in the specifications with the section number of the specifications and the applicable drawing sheet number.

Each submittal shall include the following basic information for each piece of equipment, product or system:

1. Introduction
2. Table of Contents
3. Description of system (including design intent and considerations)
4. Operating sequence and procedures
5. Maintenance instructions and requirements
6. Diagrams
7. Parts list
8. Manufacturer
9. Subcontractor or installer
10. Maintenance contractor, if applicable
11. Local source of supply for parts and replacement

Product data to be provided by Contractor:

12. Include only information that is applicable to the specific product.
13. Annotate each sheet to:
 - a. Clearly identify the specific product or part installed.
 - b. Clearly identify the data applicable to the installation.
 - c. Delete references to inapplicable information.
 - d. Provide parts breakdown.
 - e. Provide assembly drawings

Provide a copy of each warranty, bond or service contract issued. Submit with the foregoing an information sheet for City's personnel which includes:

14. Effective dates or period
15. Proper procedures in the event of failure

16. Instances which might affect the validity of warranties, bonds or service contracts.

1.06 PREPARATION

- A. Manuals shall be properly organized and professionally prepared. Literature, instructions, etc., shall all be typed. Drawings shall be professionally drafted. Manuals shall be completely customized to this specific project. Crossed out information and generic diagrams and information is not acceptable. Inapplicable data and reference to inapplicable data shall be deleted.
- B. Manuals shall be organized in tabbed 4" thick 3-Ring binders labeled and titled specific to this project, by CSI Section. (Approximately 8-10 Volumes).

1.07 MAINTENANCE AND OPERATION MANUALS

- A. Thirty (10) days prior to scheduled date of Substantial Completion, provide 3 copies of maintenance and operation instructions relating to all manufactured items of equipment and materials requiring maintenance (i.e., electrical devices, etc.).
- B. The manuals shall be contained in hard back binders properly identified on front cover with project name, subcontractor, and general content. The material shall be suitably tab-indexed for ready reference, include a Table of Contents, and contain, as available from the Manufacturer/Supplier, the following information:
 1. Name of equipment/material, item and function.
 2. Manufacturer name and address.
 3. Model No. and Serial No., with option identification.
 4. Description of feature in model provided.
 5. Drawings of part(s) or assembly(ies) - control diagrams, parts lists, etc.
 6. Connection diagrams, mounting details, installation information, etc.
 7. Operation and maintenance information for services by Owner.
 8. Name, address, and telephone number of local supplier or service department.

1.08 SUGGESTED OUTLINE FOR OPERATING AND MAINTENANCE MANUALS

- A. This is a suggested outline with general requirements of O&M manuals. The outline is presented to indicate the extent and items required in manuals for major facilities. The outline may be modified to suit specific installations; however, the intent of the manual must be fulfilled. It is not intended to duplicate manufacturer's data, but proper references should be made in the text of the O&M manual to indicate that information is applicable and where it is located.

PART 2 - DESCRIPTION AND DESIGN INTENT

2.01 INTRODUCTION

Scope: Brief description of project and purpose of manual. Provide a system description (written and diagrammatic). The following statements shall also be included; operation and maintenance of this equipment shall be performed in accordance with this manual and posted instructions, subject to compliance with applicable technical guides and standards issued by the Owner. It is recognized that minor changes in control points and settings will be required, based on actual operating experience, to correct varying conditions and improve operation. When such changes appear necessary, they shall be submitted to the Chief Operating Engineer for consideration. Upon approval of any changes, the applicable portions of all copies of the manual and proposed instructions shall be revised, reissued and any change in operating procedure brought to the attention of all operating personnel.

"This manual is specifically developed to assist the City's personnel in charge at the facility to operate and maintain the building systems and equipment. Manufacturers' recommendations set forth for certain components MUST be followed during the complete warranty period for that equipment."

Contents of Manual: This portion of the introduction shall contain an explanation that the manual is presented in a number of volumes which contain complete operating, maintenance and safety instructions for all equipment listed any other appropriate references as required to outline an explanation of the manuals and major categories of reference materials required with the manuals.

2.02 TABLE OF CONTENTS

- A. The Table of Contents shall list numbers and titles of chapters, selections and main paragraphs with their page numbers. Each volume in a set of manuals shall contain its own Table of Contents.

2.03 PART III - MAINTENANCE INSTRUCTIONS AND REQUIREMENTS

- A. Contents: The maintenance volume(s) shall contain a chapter for each item included in Part I. Each chapter shall describe the procedures necessary for the City's personnel to perform the maintenance of the materials and/or systems covered in that chapter. Reference shall be made, as appropriate, to Drawings and schematics. Prints of these Drawings shall be reduced to 11 x 17 inches for insertion in the manuals. Drawings shall represent the "as-built" condition. In addition, provide one indexed copy of Operation & Maintenance Manual in PDF format.

Maintenance Procedures: The maintenance procedures shall be divided into two categories: Preventative maintenance and corrective maintenance.

2.05 PART IV - DIAGRAMS

- A. Provide piping and flow diagrams for applicable piping installations. Diagrams shall show flow direction and pipe sizes and coordination/tie-in to existing pumps and equipment.

2.06 SUBMITTALS

- A. Preliminary Submittal: Four draft copies of the complete manuscript for items as outlined herein and training programs in outline form shall be submitted to the City representative for review 10 calendar days after approval. One copy will be returned to the City representative within 15 days after submittal, and, if required, will be revised and resubmitted within 15 calendar days.

Final Submittal: Submit 4 complete sets of manuals to the City within 6 calendar days of receipt of the final comments.

Make necessary corrections and/or additions to the manuals after conducting training for the Owner's personal and throughout the warranty period should conditions so warrant.

All submittals shall be bound in 3-ring notebooks, with adequate room for material and adequately labeled.

END OF SECTION 01730

SECTION 01750
WARRANTIES AND BONDS

PART 1 GENERAL

1.01 REQUIREMENTS INCLUDED

- A. Compile specified Warranties and Bonds.
- B. Compile specified Service and Maintenance Contracts.
- C. Review submittals to verify compliance with Contract Documents.

1.02 RELATED REQUIREMENTS

- A. Bid Bond: See General and Supplementary General Conditions.
- B. Performance Bond and Labor and Material Payment Bond: See General and Supplementary General Conditions.
- C. Warranty of Work After Final Payment: See General and Supplementary General Conditions.
- D. Contract Closeout: Section 01700.

1.03 SUBMITTAL REQUIREMENTS

- A. Assemble Warranties, Bonds, and Service and Maintenance Contracts, executed by each of the respective Manufacturer, Suppliers and Subcontractors.
- B. Number of original signed copies required: Four (4) each.
- C. Table of Contents: Neatly type in orderly sequence.
- D. Provide complete information for each item:
 - 1. Product or Work Item.
 - 2. Firm, with name of principal, address, and telephone number.
 - 3. Beginning date of Warranty, Bond, or Service and Maintenance Contract.
 - 4. Duration of Warranty, Bond, or Service and Maintenance Contract.
 - 5. Provide the following information for Owner's Personnel:
 - a. Procedure in case of failure or malfunction.
 - b. Instances which affect Warranty or Bond validity.
 - 6. Contractor, name of responsible principal, address, and telephone number.

1.04 SUBMITTAL FORM

- A. Punch sheets for 3-ring binder.

- B. Size: 8-1/2 x 11 inches.
- C. Fold larger sheets to fit into binder.
- D. Cover: Identify each packet with typed or printed title "WARRANTIES AND BONDS": List:
 - 1. Title of Project.
 - 2. Name of Contractor.

1.05 SUBMITTAL TIME

- A. See Section 01700

1.06 SUBMITTAL LOCATION

- A. Bind with Owner's Maintenance Manual specified in Section 01700.

END OF SECTION 01750

SECTION 01760

SPARE PARTS & MAINTENANCE MATERIALS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.02 DESCRIPTION

- A. General
 - 1. Furnish all labor, materials, tools, equipment and services for all spare parts and maintenance materials as indicated, in accordance with the provisions of the Contract Documents.
 - 2. Completely coordinate with work of all other trades.
 - 3. Although such work is not specifically indicated, furnish and install all supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a sound, secure, and complete installation.
 - 4. See Specification Sections for items required.

1.03 SUBMITTALS (SEE SECTION 01300)

- A. Spare parts and tools.
- B. Maintenance.
- C. Extra materials (attic stock).
- D. Inventory of parts, tools, and materials.

PART 2 - PRODUCTS

2.01 SPARE PARTS AND TOOLS

- A. Package in clearly identified boxes.
 - 1. Indicate manufacturer's name, part name and stock number.
 - 2. Indicate what the piece of equipment part or tool is for.
 - 3. Indicate name, address, and phone number of closest supplier.
 - 4. Indicate quantity

2.02 MAINTENANCE MATERIALS

- A. Package in clearly identified boxes.
 - 1. Indicate trade name and stock number.
 - 2. Indicate which item material is to be used with.

3. Indicate name, address, and phone number of closest supplier.
4. Indicate Quantity.

2.03 EXTRA MATERIAL INVENTORY

- A. Upon Substantial Completion of the Contract Work, provide the Owner with extra materials (i.e., spare parts, etc.) as identified in respective sections of the Specifications. Deliver to the Owner when and as directed by the Architect on the basis of a written detailed inventory including a signed receipt from the designated Owner representative.

2.04 EXTRA MATERIALS (ATTIC STOCK)

- A. Package in clearly identified container, or install where indicated.
 1. Indicate trade name, stock number, size, color, etc
 2. Indicate where product is to be used.
 3. Indicate name, address, and phone number of closest supplier.
 4. Indicate quantity.

PART 3 - EXECUTION

3.01 DELIVERY

- A. Deliver to location designated by Owner at time of final completion, unless Owner requests earlier delivery.
- B. Maintain signed receipts of all material, tools, etc. until the completion of the project. Receipts must be very specific of the items received, signed by pre-designated City of Sacramento Personnel.

END OF SECTION 01760

SECTION 01780

PROJECT RECORD DOCUMENTS

PART 1 GENERAL

1.01 RELATED REQUIREMENTS SPECIFIED ELSEWHERE

- A. Shop Drawings, Product Data, and Samples: Section 01340

1.02 MAINTENANCE OF DOCUMENTS

- A. Maintain at job site, one copy of:
1. Contract Drawings
 2. Specifications
 3. Addenda
 4. Change Orders
 5. RFI's
 6. Requests for Proposal
 7. Other Modifications to Contract
 8. Field Test Records
 9. Truck tickets for all imported material
 10. Current Construction Schedule
- B. Store Documents in approved location, apart from documents used for construction.
- C. Maintain documents in clean, dry, legible condition.
- D. Do not use record documents for construction purposes.
- E. Make documents available at all times for inspection by Architect and Owner.
- F. Record documents must be updated with all required information prior to approval of application for payment.

1.03 RECORDING

- A. The City representative shall provide (1) complete copy of all Contract Documents to the Contractor. The Contractor and/or Subcontractors under the City representative's direction shall record on one set of clean, new prints each and every change that is made from general drawings at the time it is made. This includes any changes that are made in partitions, doors, or otherwise in arrangement of construction of buildings as well as a complete record of exact manner in which electrical and mechanical work, piping, etc., are installed. Dimensions shall be included to accurately locate piping and other items that will be concealed underground or in finished building that may later be necessary to service or require future connection.

- B. Contract Drawings: Legibly mark to record actual construction:
 - 1. Horizontal and vertical location of underground utilities and appurtenances referenced to permanent surface improvements.
 - 2. Field changes of dimensions and detail.
 - 3. Changes made by Change Order, RFI, and Shop Drawing variations
 - 4. Details not on original Contract Drawings
- C. Shop Drawings: Provide all shop drawings.
- D. Specifications and Addenda: Legibly mark up each section to record:
 - 1. Changes made by Change Order.
 - 2. Other matters not originally specified.
 - 3. Manufacturer, trade name, catalog number and supplier of each product and item actually incorporated in the Work.
- E. Label each document "PROJECT RECORD" in 1/2 in. high printed letters.
- F. Keep record documents current.
- G. Do not permanently conceal any work until required information has been recorded.
- H. Record equipment serial numbers and their locations on the drawings.

1.04 SUBMITTAL

- A. Upon completion of the Project, and prior to final payment, the Contractor shall submit Project Record Documents to Architect for approval.
- B. If documents are not approved by the Architect, records of changes shall be revised and resubmitted by the Contractor.
- C. Accompany submittal with transmittal letter to Architect containing:
 - 1. Date
 - 2. Project title and number
 - 3. Contractor's name and address
 - 4. Title and number of each record document
 - 5. Certification that each document as submitted is complete and accurate.
 - 6. Signature of Contractor, or his authorized representative.

END OF SECTION 01780

SECTION 01800
VALUE ENGINEERING

PART I GENERAL

1.01 DESCRIPTION

- A. The City encourages voluntary development, preparation, and submittal of Value Engineering proposals (VEP's). Proposals may be submitted to the City for modifying the plans, specifications, or other requirements of the contract for the purpose of reducing the total cost of construction without impairing in any manner the essential functions or characteristics of the project. All aspects of the proposed change will be evaluated in determining the value of the proposed change to the project, for example: construction cost, service life, economy of operations, ease of maintenance, appearance, and design and safety standards.
- B. Value Engineering Proposals may be initiated by the Contractor including subcontractors, the City including consultants.
- C. Upon receipt of a Value Engineering Proposal (VEP), the City will assemble a preliminary review team to evaluate all aspects of the VEP, for example: construction cost savings, contractor costs to develop and implement the VEP, City costs to develop and implement the VEP, required design changes, and functional considerations.
- D. If the preliminary review results in agreement on the merits of further action on the VEP, the review team will recommend full development of the VEP. The City will estimate development, life cycle, and redesign costs, and the contractor will estimate and propose construction costs savings.

1.02 VEP Format.

- A. The Contractor shall prepare a Value Engineering Proposal which shall contain the following:
 - 1. A description of the proposed change and of the existing contract requirements affected by the proposed change.
 - 2. A detailed estimate of the costs of performing the work as originally designed and of the costs of performing in accordance with the proposed change.
 - 3. In association with the City representative, the Contractor shall illustrate the advantages and disadvantages of the existing design in relation to the proposed change.
 - 4. A statement as to the effect that the proposed change will have on the time required for completion of the project.
- B. The City shall prepare the following:
 - 1. A list of contract document changes required by acceptance of the proposed change, including any additional review fees, design costs, all public utility revisions, and all revised permit coordination fees.

2. A detailed estimate of City development and redesign costs required by acceptance of the proposed change.
3. In association with the City representative, an estimate of time duration for redesign effort required by acceptance of the proposed change.
4. An estimate of the effect of the proposed change on life cycle costs.

1.03 Analysis for Acceptance

- A. The review team will analyze the fully developed proposal for functional equivalence, characteristics, development costs, construction cost savings, and life cycle costs, and recommend acceptance or rejection by the City.
- B. The City will be the sole judge of acceptability of the proposal. The City's decision will be final.

1.04 Modification of Contract for VEP.

- A. Upon acceptance of a VEP, the City and Contractor will agree on the scope and price adjustments required. The contract price will be reduced by the following amount:
(Construction cost savings less contractor development costs less City development costs) multiplied by 0.50.
- B. Upon agreement as to changes in scope and price, the necessary change order will be issued, specifically stating that it is issued under the provision Section: VALUE ENGINEERING of this contract, and fully describing the required changes in the plans and specifications.
- C. During submittal, analysis, review, and negotiation of any VEP, the Contractor shall continue to perform the work in accordance with the original requirements of the contract unless otherwise directed in writing by the City.

END OF SECTION 01800

SECTION 01810

OWNER REQUIREMENTS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and General Provisions of Contract, including Conditions of the Contract and All Divisions of these Specifications, apply to this Section.

1.02 SUMMARY

- B. This section shall be considered as Part 4 of all specifications Sections and shall be a supplement to all other division one specifications. If there are conflicts between this section and any other parts of these documents, the most stringent requirement shall govern. Conflicts must be brought to the attention of the Architect and Owner for determination of the best solution to the conflict. The Architect and Owners' decision shall be final.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

The Part 4 of all Sections of these specifications shall be amended or added and shall read as follows:

"PART 4 – OWNER REQUIREMENTS

4.01 DOCUMENTATION

- A The Vendor shall agree to furnish the City with service repair notes, and updates and revisions to system documentation, including software, on an automatic basis of a yearly minimum or as new updates become available, at no charge, with sufficient copies to cover all manuals and software originally supplied for all installations where required.

4.02 AS BUILT DRAWINGS

- A 10 days prior to the start of acceptance tests, the Vendor shall provide five (5) sets of as-built drawings showing the location, mounting details, installation details, interconnections, cable labeling, block and level diagrams, and records and results of tests performed and adjustments made. Vendor as-built drawings and test data shall also be provided in PDF format (one copy)

4.03 MANUALS

- A 10 days prior to the start of acceptance tests, the Vendor shall provide, as a minimum, the following sets of manuals:

1. One (1) operational manual for each piece of equipment, to include details of both hardware and software operation.
2. Five (5) operational manual sets. Each set shall include one operational manual for each type of equipment, with the entire set bound together as a master manual. (In labeled volumes if necessary).
3. Five (5) bound sets of all necessary installation and service manuals for each type of equipment installed.
4. Five (5) sets of installation and service manuals for all other equipment, including, but not limited to the following: controllers, UPS, generators, logic controllers, alarms, CCTV ,access systems, chargers, power supplies, HVAC systems accessories, etc. One copy of all installation and service manuals shall be provided in PDF format.

- B All manuals shall adhere to the following standards:

1. All manuals shall emphasize any notes of caution or warning that are intended to protect the operator, technician, or equipment from injury or damage.
2. Operations manuals shall include procedures that maximize operator efficiency and insure optimum equipment life.
3. Maintenance and service manuals shall show sufficient detail to allow a competent technician to perform all necessary troubleshooting procedures and repairs to the board and component level, to perform preventive maintenance, and to keep all adjustable equipment within acceptable operating tolerances. The manuals shall include:
 - a. Introductory material including equipment specification, special ordering information, detailed charts which list the kits and models that make up the equipment, and general safety information.

- b. Procedures for unpacking, checking, installing, and adjusting the equipment.
 - c. Theory of operation, explaining the circuit-by circuit operation, including appropriate block diagrams.
 - d. Circuit schematics and descriptions, including annotations for theory of operation and maintenance information.
 - e. Procedures for preventive maintenance, service and repair, special disassembly, tests, and trouble-shooting.
 - f. Wiring diagrams with symbols, symbol designations and component values, voltage levels, and termination block details. Components shall be clearly marked with symbol designations and values, such as R1, 100K; C4, 20 μ f; U1, 8085; D3, IN222, etc. A parts list shall include each symbol component.
 - g. Parts lists, including part numbers for mechanical and electrical parts, and reference designations for all electrical parts. Each electrical part shall be identified by a reference designation on the schematic diagram, as well as on the parts list. Mechanical parts shall be described, and part numbers provided.
4. Maintenance and service manuals shall be factory printed, not photocopies. Foldout schematic diagram sheets or other pages that require folding shall be a continuous sheet of paper without splices.

4.04 SOFTWARE

- A. The Vendor shall furnish and install the latest version of Operating System software for each piece of equipment supplied that requires software for operation. The software shall contain the manufacturer's full instructions for installation, setup and configuration. Any proprietary restrictions on software or documentation shall be identified and described. The software shall be licensed to the City for the life of the system. All software furnished shall be date compatible for a minimum of 90-years or the life of the system, which ever is longer. The vendor shall furnish the City with a licensed disk copy of all Operating Systems software and 2-copies of the user programmer's manual. The manual shall contain complete instructions on how to program all aspects of the system.
- B. The vendor shall furnish and install Application software required for setup and operation of the system. The software shall be fully tested for all aspects of its intended purpose. The software shall be licensed to the City for the life of the system. All software furnished shall be date compatible for a minimum of 90-years or the life of

the system, which ever is longer. The vendor shall furnish the City with a licensed disk copy of all Application software and 2-copies of the user programmer's manual. The manual shall contain complete instructions on how to program all aspects of the system.

- C. If any of the software is stored on PROM, EPROM, EEPROM, flash or any other type of non volatile memory, the vendor shall provide the City with a means to reprogram it. If the data furnished is on disk, the Vendor shall provide the City with the operating program to apply to a PROM burner or other mechanism to load the program. Furnishing the City with a spare set of programmed IC chips that will become the property of the City will meet this requirement.

4.05 TRAINING

- A. Training Program

The Contractor shall coordinate with City representatives to develop a training program for system users, and for system maintenance personnel. The training program shall be approved by the City before implementation.

Contractors may provide videotapes of their training classes. The City shall be authorized to videotape all training sessions for use in training additional City personnel.

- B. Training Classes

Immediately prior to system start-up, the Contractor shall conduct training classes in accordance with the agreed-upon program.

1. The Contractor shall provide instructors who are highly skilled (with extensive training and experience on the equipment supplied under these specifications) as well as all necessary instructional materials.
2. A copy of a training manual shall be supplied to each trainee. The manual shall be written at a level appropriate to the trainee, and closely reflect the information imparted in the class. The listed classes are the minimum required training classes.

- B. Notification Requirement

It shall be the Contractors responsibility to make these requirements for Documentation, Software and Training known to all subcontractors in writing prior to entering into any subcontracts. This requirement shall become a part of the subcontract. If the contractor fails to do so, the City will have the right to require the

contractor to replace entire control systems that are not compliant with systems that are, at no additional cost to the City.

END OF SECTION

SECTION 03101

SWIMMING POOL CONCRETE FORMWORK

PART 1- GENERAL

1.1 GENERAL CONDITIONS

The requirements of the "General Conditions of the contract" and of Division 1, "General Requirements," shall apply to all work of this Section with the same force and effect as though repeated in full herein.

1.2 SCOPE OF WORK

- A. Forming for cast-in-place concrete and pneumatically placed concrete (shotcrete) as indicated on the Drawings and subsequent removal of all such forms except those earthforms as described in this Section.

1.3 QUALITY ASSURANCE

- A. All Work of this Section shall be performed by the swimming pool contractor/subcontractor.
- B. Qualifications of Workers: Provide at least one person who shall be present at all times during execution of this portion of the Work and who shall be thoroughly familiar with the type of materials being installed, the referenced standards, and the requirements of this Work, and who shall direct all Work performed under this Section.
- C. Standards:
 - 1. In addition to complying with all applicable codes and regulations, comply with all pertinent recommendations contained in "Recommended Practice for Concrete Formwork," Publication ACI 347-78 of the American Concrete Institute.
 - 2. Where provisions of applicable codes and standards conflict with the requirements of this Section, the more stringent provisions shall govern.

1.4 SUBMITTALS

- A. Provide submittals in accordance with the requirements of Section 01300.

1.5 PRODUCT HANDLING

- A. Protection: Use all means necessary to protect concrete formwork materials before, during and after installation and to protect the installed Work of other trades.

- B. Replacement: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect.

PART 2 - PRODUCTS

2.1 FORM MATERIALS

- A. Form Lumber: All form lumber in contact with exposed concrete shall be new except as allowed for reuse of forms in Part 3 of this Section, and all form lumber shall be one of the following, a combination thereof, or an equal approved in advance by the Architect.
 - 1. "Piyform," Class I or II, bearing the label of the Douglas Fir Plywood Association; "Inner-Seal" Form as manufactured by Louisiana-Pacific, or approved equal.
 - 2. Douglas Fir-Larch, number two grade, seasoned, surfaced four sides.
- B. Form Release Agent: Colorless, non-staining, free from oils; chemically reactive agent that shall not impair bonding of paint or other coatings intended for use.

2.2 TIES AND SPREADERS

- A. Type: All form ties shall be a type which do not leave an open hole through the concrete and which permits neat and solid patching at every hole.
- B. Design: When forms are removed, all metal reinforcement shall be not less than one (1) inch from the finished concrete surface.
- C. Wire Ties and Wood Spreaders: Do not use wire ties or wood spreaders.

2.3 ALTERNATE FORMING SYSTEMS

- A. Alternate forming systems may be used subject to the advance approval of the Architect.

2.4 OTHER MATERIALS

- A. All other materials, not specifically described but required for proper completion of the work of this Section, shall be as selected by the Contractor subject to the advance review by the Architect.

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS

- A. Inspection:

1. Prior to all Work of this Section, carefully inspect the installed Work of other trades and verify that all such Work is complete to the point where this installation may properly commence.
 2. Verify that forms may be constructed in accordance with all applicable codes and regulations, the referenced standards, and the original design.
- B. Discrepancies:
1. In the event of discrepancy, immediately notify the Architect.
 2. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.
 3. Failure to notify the Architect and give written notice of discrepancies shall constitute acceptance by the Contractor of existing conditions as fit and proper to receive work.

3:02 CONSTRUCTION OF FORMS

- A. General: Construct all required forms to be substantial, sufficiently tight to prevent leakage of concrete paste, and able to withstand excessive deflection when filled with wet concrete.
- B. Layout:
1. Form for all required cast-in-place concrete to the shapes, sizes, lines and dimensions indicated on the Drawings.
 2. Exercise particular care in the layout of forms to avoid necessity for cutting concrete after placement.
 3. Make proper provisions for all openings, offsets, recesses, anchorages, blocking and other features of the Work as shown or required.
 4. Perform all forming required for Work of other trades and do all cutting and repairing of forms required to permit such installation.
 5. Carefully examine the Drawings and Specifications and consult with other trades as required relative to providing for openings, reglets, chases and other items in the forms.
- C. Imbedded Items: Set all required steel frames, angles, grilles, bolts, inserts and other such items required to be anchored in the concrete prior to concrete being placed.
- D. Bracings:
1. Properly brace and tie the forms together so as to maintain position and shape and to ensure safety to workmen.

2. Construct all bracing, supporting members and centering of ample size and strength to safely carry, without excessive deflection, all dead and live loads to which they may be subjected.
 3. Properly space the forms apart and securely tie them together, using metal spreader ties that give positive tying and accurate spreading.
- E. Tolerances: Construct all forms straight, true, plumb and square within a tolerance horizontally of one in 200 and a tolerance vertically of one in 500.
- F. Wetting: Keep forms sufficiently wetted to prevent joints from opening up before concrete is placed.

3.3 PLYWOOD FORMS

- A. Design: Nail the plywood panels directly to studs and apply in a manner to minimize the number of joints.
- B. Joints: Make all panel joints tight butt joints with all edges true and square.

3.4 FOOTING FORMS

- A. Wood Forms: All footing forms shall be wood unless otherwise specifically approved by the Architect, or as specified in paragraph 3.04(B).
- B. Earth Forms:
1. Side walls for footings may be of earth provided the soil will stand without caving and the sides of the bank are made with a neat cut to the minimum dimensions indicated on the Drawings.
 2. Make all provisions necessary to prevent cave-ins during placement of concrete.

3.5 REUSE OF FORMS

- A. General: Reuse of forms shall be subject to advance approval of the Architect.
- B. Requirements:
1. Except as specifically approved in advance by the Architect, reuse of forms shall in no way delay or change the schedule for placement of concrete from the schedule obtainable if all forms were new.
 2. Except as specifically approved in advance by the Architect, reuse of forms shall in no way impart less structural stability to the forms nor less acceptable appearance to finished concrete.

3.6 REMOVAL OF FORMS

- A. General:
 - 1. In general, side forms of footings may be removed seven (7) days after placement of concrete, but time may be extended if deemed necessary by the Architect.
 - 2. Forms for walls, columns, slabs, beams and other formed concrete may be removed fourteen (14) days after placement of concrete.
- B. Removal:
 - 1. Use all means necessary to protect workers, passersby, the installed Work of other trades and the complete safety of the structure.
 - 2. Cut nails and tie wires or form ties off flush, and leave all surfaces smooth and clean.
 - 3. Remove metal spreader ties on exposed concrete by removing or snapping off inside the wall surface and pointing up and rubbing the resulting pockets to match the surrounding areas.
 - 4. Flush all holes resulting from the use of spreader ties and sleeve nuts using water, and then solidly pack throughout the wall thickness with cement grout applied under pressure by means of a grouting gun; grout shall be one part Portland Cement to 2-1/2 parts sand; apply grout immediately after removing forms.

3.7 CLEAN-UP

- A. Upon completion of the Work of this Section, immediately remove all forming materials, debris and rubbish occasioned by this Work to the approval of the Architect.

END OF SECTION

SECTION 03200 CONCRETE

REINFORCEMENT

PART I GENERAL

1.1 SECTION INCLUDES

1.1.1 Reinforcing steel bars, wire fabric and accessories for cast-in-place concrete.

1.2 RELATED SECTIONS

1.2.1 Section 03100 - Concrete Formwork.

1.2.2 Section 02520- Cast-in-Place Concrete.

1.3 REFERENCES

1.3.1 ACI 318- Building Code Requirements for Reinforced Concrete.

1.3.2 ACI SP-66- American Concrete Institute-Detailing Manual.

1.3.3 ASTM A82- Cold Drawn Steel Wire for Concrete Reinforcement.

1.3.4 ASTM A 185 -Welded Steel Wire Fabric for Concrete Reinforcement.

1.3.5 ASTM A615- Deformed and Plain Billet Steel Bars for Concrete Reinforcement.

1.3.6 ASTM A706- Low Alloy Steel Deformed Bars for Concrete Reinforcement.

1.3.7 CRSI- Concrete Reinforcing Steel Institute Manual of Practice.

1.3.8 CRSI- Placing Reinforcing Bars (5th ed.)

1.3.9 AWS D1.4 Structural Welding Code- Reinforcing Steel.

1.4 SUBMITTALS

1.4.1 Submit under provisions of Section 01300.

1.4.2 Test Reports: Submit certified copies of mill test report of reinforcing steel analysis to testing laboratory, indicating products meet or exceed specified requirements. Include grades, physical and chemical properties.

1.4.2.1 Where welding of reinforcing steel is required, submit mill reports indicating the chemical composition and the carbon equivalent (C.E.).

- 1.4.3 Shop Drawings
 - 1.4.3.1 Submit steel reinforcement shop drawings in accordance with ACI 315. Include placing drawings, assembly diagrams, bending charts and slab plans. Show length and locations of splices, size and length of reinforcing steel, and stirrup spacing.
- 1.4.4 Product Data:
 - 1.4.4.1 Reinforcing steel couplers: Submit current ICBO ES Report, clearly indicating compliance with the minimum specified strength criteria.
- 1.5 QUALITY ASSURANCE
 - 1.5.1 Perform Work in accordance with CRSI, ACI SP-66, and ACt 318 and applicable Sections of Chapter 19, Uniform Building Code.
- 1.6 QUALIFICATIONS
 - 1.6.1 Manufacturer
 - 1.6.1.1 Manufacturer shall have produced the specified products for a period of five (5) years prior to beginning work of this section, and shall have the capability to produce the specified products to the delivery and quantity criteria of the project.
 - 1.6.1.2 Unless noted otherwise, reinforcing steel may be of domestic or imported origin, subject to compliance with specified criteria.
 - 1.6.2 Fabricator/Erector
 - 1.6.2.1 For fabrication and installation of work, use only personnel who are thoroughly trained and experienced in the skills required, have installed similar applications of the specified products within one year prior to beginning work on this section, and who are completely familiar with the requirements of this work.
 - 1.6.2.2 Fabricator shall be currently licensed and approved by jurisdictional authority as an approved fabricator of reinforcing steel.
 - 1.6.3 Detailer(s)
 - 1.6.3.1 For detailing of reinforcing steel shop drawings, use only personnel who are thoroughly trained and experienced in the skills required.
 - 1.6.3.2 Detailer, or lead detailer when more than one detailer is used, shall have a minimum of five (5) years experience in the detailing of similar structures.

- 1.6.3.3 Submit qualifications of detailer, or lead detailer, to architect for review.

1.7 COORDINATION

- 1.7.1 Coordinate work under provisions of Section 01039.
- 1.7.2 Coordinate with placement of formwork, formed openings and other Work.

1.8 PRODUCT HANDLING

- 1.8.1 Deliver reinforcement to the Project Site bundled, tagged and marked. Indicate on tags, bar size, lengths, and other information corresponding to markings shown on placement diagrams.
- 1.8.2 Store materials at the Project Site to prevent damage and accumulation of dirt and excessive rust. Store welding electrodes in accord with AWS DI .4.

2. PART 2 PRODUCTS

2.1 REINFORCEMENT

2.1.1 Reinforcing Steel:

- 2.1.1.1 Non-Welded Systems: ASTM A61 5, deformed billet steel bars, plain finish.

- 2.1.1.1.1 All bar size: 60 ksi yield grade.

- 2.1.1.2 Welded Systems: ASTM A706, Grade 60.

- 2.1.1.3 Deformed wire: ASTM A 496.

- 2.1.2 Welded Steel Wire Fabric: ASIM AI 85, Plain Type; fiat sheets; plain finish.

- 2.1.3 Dowels: Same as 2.1.1.

- 2.1.4 Reinforcing steel couplers: Provide mechanical couplers maintaining positive alignment and developing, in tension or compression as required, at least 125% of the specified yield strength of the bars, or of the smaller bar in transition splices.

2.2 ACCESSORY MATERIALS

- 2.2.1 Tie Wire: Minimum 16 gage annealed type.

- 2.2.2 Chairs, Bolsters, Bar Supports, Spacers: Sized and shaped for strength and support of reinforcement during concrete placement conditions including load

bearing pad on bottom to prevent vapor retarder/barrier puncture.

- 2.2.3 Electrodes for welding reinforcing steel: Conform to requirements of Specifications for Mild Steel Covered Arc-Welding Electrodes, AWS A5.5, E90XX Series, low hydrogen, having a minimum yield point of 90,000 psi.

2.3 FABRICATION

- 2.3.1 Fabricate concrete reinforcing in accordance with CRSI Manual of Practice, ACI SP66, and ACI 318.

- 2.3.2 Do NOT bend or straighten bars in manner that will weaken or injure bar.

- 2.3.3 Do NOT use heat to bend bars.

- 2.3.4 Remove and replace reinforcement with following fabrication defects.

- 2.3.4.1 Bar lengths, depths and bends exceeding specified fabrication tolerances.

- 2.3.4.2 Bends or kinks not shown on Drawings or final shop drawings.

- 2.3.4.3 Bars with reduced cross-section due to excessive rusting or other cause

- 2.3.5 Locate reinforcing splices as shown on Drawings. Obtain approval from Structural Engineer for splicing not shown on drawings.

2.4 SOURCE QUALITY CONTROL AND TESTING

- 2.4.1 Provide for testing under the provisions of Section 01410.

- 2.4.1.1 Cost of testing for unidentified stock shall be reimbursed to the Owner by the Contractor.

- 2.4.2 Provide mill test certificates indicating the following information:

- 2.4.2.1 Steel Source and Description

- 2.4.2.2 Ultimate tensile strength, Bend test, Elongation percentage and Yield point.

- 2.4.2.3 Heat number and chemical analysis.

- 2.4.3 Sample and test reinforcing for compliance with ASTM A 615 and ASTM A 706.

- 2.4.3.1 When materials can not be identified, the Testing Laboratory shall make one series of testing (tensil and bend) for each 5 tons, or fraction, of each size and kind of reinforcing steel.

2.4.3.2 Payment for such testing will be borne by Contractor.

2.5 OTHER MATERIALS

2.5.1 Provide all other materials, not specifically described but required for complete and proper installation of this work, as selected by the contractor and subject to the approval for the Architect.

3. PART 3 EXECUTION

3.1 SURFACE CONDITIONS

3.1.1 Inspection

3.1.1.1 Prior to work of this section, carefully inspect previously installed work. Verify all such work is complete to the point where this installation may properly commence.

3.1.1.2 Verify that work of this section may be installed in strict accordance with the original design, all pertinent codes and regulations, and all pertinent portions of the referenced standards.

3.1.1.3 In the event of discrepancy, immediately notify the Architect.

3.1.1.4 Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.

3.2 PLACEMENT

3.2.1 Place all concrete reinforcing in accordance with CRSI Manual of Practice and Section 1907, Chapter 19, Uniform Building Code.

3.2.2 Place, support and secure reinforcement against displacement. Do not deviate from required position.

3.2.3 Do not displace or damage vapor barrier.

3.2.4 Accommodate placement of formed openings.

3.2.5 Maintain concrete cover around reinforcing as indicated.

3.2.6 Do NOT bend or straighten bars after placement.

3.2.7 Interrupt reinforcement at control, contraction, and expansion joints.

3.2.8 Place reinforcement to achieve slab and curb alignment as detailed.

3.2.9 Provide dowelled joints at interruptions of concrete.

3.2.10 Comply with AWS Standards at all welding of reinforcing bars.

3.3 FIELD QUALITY CONTROL

3.3.1 Field inspection will be performed under provisions of Section 01400 and 01410.

3.3.2 Notify Architect 48 hours minimum prior to placement of concrete.

3.3.3 Inspection and tests of welds as required by AWS D1.4 will be made by the Testing Laboratory for reinforcing bar welds, including:

3.3.3.1 Certification of welders engaged in welding of reinforcing.

3.3.3.2 Inspection of reinforcing bar welds.

3.3.3.3 Perform 2 tensile tests of sample welds of the largest size bar for each type of welding.

3. .4 Deficient welds will require the Contractor to provide and pay for each additional tests and inspections as required. Repair or replace defective welds as acceptable.

END OF SECTION

SECTION 03201

SWIMMING POOL CONCRETE REINFORCEMENT

PART 1 - GENERAL

1.1 GENERAL CONDITIONS

The requirements of the "General Conditions of the contract" and of Division 1, "General Requirements," shall apply to all work of this Section with the same force and effect as though repeated in full herein.

1.2 WORK INCLUDED

- A. Furnish and install all reinforcement required and/or indicated on the Drawings for all cast-in-place concrete and pneumatically placed shotcrete associated with the swimming pool.

1.3 QUALITY ASSURANCE

- A. All Work of this Section shall be performed by the swimming pool contractor/subcontractor.
- B. Qualifications of Workers: Provide at least one person who shall be present at all times during the execution of this portion of the Work and who shall be thoroughly familiar with the type of materials being installed and the best methods for the installation and who shall direct all Work performed under this Section.
- C. Standards:
 - 1. In addition to complying with all local codes and regulations, comply with all pertinent recommendations contained in "Manual of Standard Practice for Detailing Reinforced Concrete Structures," Publication ACI 315-74 of the American Concrete institute.
 - 2. Where provisions of pertinent codes and standards conflict with this Specification, the more stringent shall govern.

1.4 SUBMITTALS

- A. Provide submittals in accordance with Section 01300.
- B. Samples and Certificates:
 - 1. Provide all data and access required for testing as described in Section 01400 of the Specifications.
 - 2. All material shall bear mill tags with heat number identification. Mill analysis and report shall be made available upon request.
 - 3. Material not so labeled and identifiable may be required by the Architect to be tested by the testing laboratory selected by the Owner and at no

additional cost to the Owner, in which case random samples will be taken for one series of tests from each 2-1/2 tons or fraction thereof of each size and kind of reinforcement steel.

1.5 PRODUCT HANDLING

A. Protection:

1. Use all means necessary to protect concrete reinforcement before, during and after installation and to protect the installed Work of other trades.

Store in a manner to prevent excessive rusting and fouling with dirt, grease and other bond breaking coatings.

2. Use all necessary precautions to maintain identification after bundles are broken.

B. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect.

PART 2 - PRODUCTS

2.1 BARS

- A. Bars for reinforcement shall conform to "Specifications for Deformed Billet-Steel Bars for Concrete Reinforcement," ASTM A-615, Grade 40.

2.2 WIRE FABRIC

- A. Wire fabric shall conform to "Specifications for Wire Fabric for Concrete Reinforcement," ASTM A-185.

2.3 TIE WIRE

- A. Tie wire for reinforcement shall conform to "Specifications for Cold-drawn Steel Wire for Concrete Reinforcement," ASTM A-82 black annealed 16 gauge tie wire.

2.4 OTHER MATERIALS

- A. All other materials, not specifically described but required for proper completion of the work of this Section, shall be new, first quality of their respective kinds, and subject to the advance approval of the Architect. PART

3 - EXECUTION

3.1 SURFACE CONDITIONS

A. Inspection:

1. Prior to all Work of this Section, carefully inspect the installed Work of other trades and verify that all such Work is complete to the point where

this installation may properly commence.

2. Verify that reinforcement, when placed, will permit placement of concrete in the design indicated on the Drawings.

B. Discrepancies:

1. In the event of discrepancy, immediately notify the Architect.
2. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.
3. Failure to notify the Architect and give written notice of discrepancies shall constitute acceptance by the Contractor of existing conditions as fit and proper to receive his work.

3.2 BENDING

A. General:

1. Fabricate all reinforcement in strict accordance with the Drawings.
2. Do not use bars with kinks or bends not shown on the Drawings.
3. Do not bend or straighten steel in a manner that will injure the material. (When opposite end is already encased in concrete.)

B. Design:

1. Bend all bars cold.
2. Make bends for stirrups and ties around a pin having a diameter of not less than two (2) times the minimum thickness of the bar.
3. Make bends for other bars, including hooks, around a pin having a diameter of not less than six (6) times the minimum thickness of the bar.

3.3 PLACING

- A. General: Before the start of concrete placement, accurately place all concrete reinforcement, positively securing and supporting by concrete blocks, metal chairs or spacers, or by metal hangers.
- B. Clearance:
 - 1. Preserve clear space between bars of not less than 1-1/2 times the nominal diameter of the round bars.
 - 2. In no case let the clear space be less than 1-1/2 inches nor less than 1-1/3 times the maximum size of the aggregate.
 - 3. Provide the following minimum concrete covering of reinforcement:
 - a) Concrete deposited against earth: 3 inches.
 - b) Concrete below grade deposited against forms: 2 inches.
 - c) Concrete elsewhere: As indicated on Drawings or otherwise approved by the Architect.
- C. Splicing:
 - 1. Horizontal Bars:
 - a) Place bars in horizontal members with minimum lap at splices sufficient to develop the strength of the bars.
 - b) Bars may be wired together at laps except at points of support of the member, at which points preserve clear space described above.
 - c) Whenever possible, stagger the splices of adjacent bars.
 - d) Splice 40 bar diameters minimum.
 - 2. Wire Fabric: Make all splices in wire fabric at least 1-1/2 meshes wide.
 - 3. Other Splices: Make only those other splices that are indicated on the Drawings or specifically approved by the Architect.
- D. Dowels: Place all required steel dowels and securely anchor them into position before concrete is placed.
- E. Obstructions: In the event conduits, piping, inserts, sleeves and other items interfere with placing reinforcement as indicated on the Drawings or otherwise required, immediately consult with the Architect and obtain approval of a new procedure prior to placing concrete.

3.4 CLEANING REINFORCEMENT

- A. Steel reinforcement, at the time concrete is placed around it, shall be free from rust scale, loose mill scale, oil, paint and all other coatings which will destroy or reduce the bond between steel and concrete.

3.5 CLEAN-UP

- A. Upon completion of the Work of this Section, immediately remove all concrete reinforcement materials, debris and rubbish occasioned by this Work to the approval of the Architect.

END OF SECTION

SECTION 03301

SWIMMING POOL CAST-IN-PLACE CONCRETE

PART 1-GENERAL

1.1 GENERAL CONDITIONS

The requirements of the "General Conditions of the contract" and of Division 1, "General Requirements," shall apply to all work of this Section with the same force and effect as though repeated in full herein.

1.2 SCOPE OF WORK

A Work Included:

1. Provide labor, materials, and equipment as required to install cast-in-place concrete as indicated on the Drawings and herein specified.

1.3 QUALITY ASSURANCE

A All Work of this Section shall be performed by the swimming pool contractor/subcontractor.

A. References:

1. Reference

B. Qualifications of Workers:

1. The contractor/subcontractor for this portion of the Work shall have been successfully engaged in the business of cast-in-place concrete for at least five (5) years immediately prior to commencement of this work, and shall demonstrate to the approval of the Owner's Representative that its' record of workmanship is satisfactory.
2. For actual construction operations, use only thoroughly trained and experienced workers completely familiar with the materials and methods specified.
3. Provide at least one person who shall be present at all times during the execution of this portion of the Work and who shall be thoroughly familiar with the materials and methods specified, and who shall direct all Work performed under this Section.

1.4 SUBMITTALS AND SUBSTITUTIONS

A Provide submittals in conformance with requirements of Section 01300.

1.5 PRODUCT HANDLING

- A Delivery: Deliver materials to the Project Site in the manufacturer's original unopened containers with all labels intact and legible.
- B Storage: Store materials under cover in a manner to prevent damage and contamination, and store only the specified materials at the Project Site.
- C Protection: Use all means necessary to protect the cast-in-place concrete before, during, and after installation and to protect the-installed Work and materials of all other trades.
- D Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Owner's Representative.

PART 2 - PRODUCTS

2.1 CONCRETE

- A All concrete, unless otherwise specifically permitted by the Engineer, shall be transit-mixed in accordance with ASTM C94.
- B The control of concrete production shall be under the supervision of a recognized testing agency, selected by the Owner in accordance with Section 01400 of the Specifications.
- C Quality: All concrete shall have the following minimum compressive strengths at twenty-eight (28) days and shall be proportioned within the following limits:
 - 1. Footings and Foundations:
 - a. 3,000 psi minimum compressive strength.
 - b. 1" maximum size aggregate.
 - c. 6.00 minimum sacks of cement per cubic yard.*
 - d. 4" maximum slump.

* For estimate only: to be determined by mix design.

D. Cement:

All cement shall be Portland Cement conforming to ASTM C-150, type I or II, and shall be the product of one manufacturer.

E. Aggregates:

CITY OF SACRAMENTO
CABRILLO POOL MAINTENACE UPGRADE

1. Shall conform to "Standard Specifications for Concrete Aggregates," ASTM C33, except as modified herein.
2. Coarse Aggregate: Clean sound washed gravel or crushed rock. Crushing may constitute not more than 30% of the total coarse aggregate volume. Not more than 5% flat, thin, elongated or laminated material nor more than 1% deleterious material shall be present. 1" aggregate graded from 1/4" to 1", fineness modulus 6.90 to 7.40. 1-1/2" graded from 1/2" to 1-1/2", fineness modulus 7.80 to 8.20.
3. Fine Aggregate: Washed natural sand of hard, strong particles and shall contain not more than 1% of deleterious material, fineness modulus 2.65 to 3.05.

F. Water:

Clean, fresh, free from acid, alkali, organic matter or other impurities liable to be detrimental to the concrete (potable).

F. Admixtures:

Admixtures shall be used upon approval of the Owner's Representative.

1. Air-entraining admixture: Conform to ASTM C260.
2. Water-reducing admixture: Conform to ASTM C494.

2.2 FORMING MATERIALS

A Use no less than 2"x 4" lumber for forming concrete decks.

2.3 CURING MATERIALS

- A Liquid Membrane (covered slab): Chlorinated rubber membrane forming, curing-sealing compound conforming to ASTM C309.
- B. Liquid Membrane (exposed slab): Clear methyl and butyl methacrylate non-staining, membrane forming, curing-sealing compound conforming to ASTM C309.

2.4 CONSTRUCTION JOINTS

A Use keyform for slab pour joints. Either preformed galvanized or PVC construction joint forms of a standard manufacturer may be used. Install per manufacturer's recommendations and tool edges of slabs.

2.5 CEMENT GROUT AND DRYOUT

- A Cement Grout: Mix 1 part by volume of Portland Cement, 1/2 part by volume of water and fine aggregate enough to make mixture flow under its' own weight.
- B. Drypack: Mix 1 part by volume of Portland Cement, 1/2 part by volume of water and fine aggregate enough to make a stiff mix that will mold into a ball. Mix no more than can be used in 30 minutes.

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS

A Inspection:

1. Prior to all work of this Section, carefully inspect the installed work of other

trades and verify that all such work is complete to the point where this installation may properly commence.

2. Verify that all items to be imbedded in concrete are in place and that concrete may be placed to the lines and elevations shown on the Drawings, with all required clearance from reinforcement.

B. Discrepancies:

1. In the event of discrepancy, immediately notify the Owner's Representative.
2. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.
3. Failure to notify the Owner's Representative and give written notice of discrepancies shall constitute acceptance by the Contractor of existing conditions as fit and proper to receive the Work.

3.2 CONVEYING AND PLACING CONCRETE

- A. Before placing concrete, mixing and conveying equipment shall be well cleaned, and the forms and space to be occupied by concrete shall be thoroughly cleaned and wetted. Ground water shall be removed until the completion of the work.
- B. No concrete shall be placed in any unit of work until all formwork has been completely constructed, all reinforcement has been secured in place, all items to be built into concrete are in place, and form ties at construction joints tightened.
- C. Concrete shall be conveyed from mixer to place of final deposit in such a way to prevent the separation or loss of ingredients. It shall be placed as nearly as practicable in its' final position to avoid re-handling or flowing. Concrete shall not be dropped freely where reinforcing bars will cause segregation, nor shall it be dropped freely more than six (6) feet. Use tremies, spouts and dump boxes in deep sections. Vibrators are not acceptable for facilitating concrete transport.
- D. Concrete shall be tamped and spaded to insure proper compaction into all parts of forms and around reinforcement. A mechanical vibrator shall be used to thoroughly compact the concrete. Vibration must be by direct action in the concrete and not against forms or reinforcement.

3.3 CONSTRUCTION JOINTS

- A. Construction joints to be provided at locations and in the manner shown on the Drawings.

3.4 SLAB FINISHES

- 1. General: Concrete slabs shall be compacted and screeded uniformly to grades shown. Push large aggregates below the surface with a screen tamper, screed and bull float. As soon as the surface becomes workable, it shall be wood floated, then steel troweled to a uniform smooth, true surface in a neat and workmanlike manner.
- B. Finishes:
 - 1. Floor Slabs: Medium broom finish.
 - 2. All finishes shall be coordinated and installed per fiberglass manufacturer and/or installer recommendations and acceptance.

3.5 PROTECTION AND CURING

- 1. Concrete shall be protected from injurious action of the elements and defacement of any nature during construction.
- B. All forms must be kept wet to prevent drying out of the concrete.
- C. All concrete surfaces including footings must be kept wet for at least seven (7) days after concrete is placed.
- D. Apply the appropriate curing materials, as specified in 2.03 of this Section, immediately after finishing slabs. Application shall be as specified by the manufacturer.

3.6 FORM REMOVAL

- 1. Take care in removing forms so that surfaces are not marred or gouged and that comers are true, sharp and unbroken.
- B. No steel spreaders, ties or other metal shall project from or be visible on any concrete surfaces.

3.7 DEFECTIVE WORK

- 1. Cut out, remove and replace, or repair to the satisfaction of the City

Representative, concrete not meeting minimum strength, not formed as indicated, not true, plumb or level, not to required elevations, containing cracks detrimental to performance or appearance, containing shavings, debris or with honeycombs or voids.

- B. Promptly perform work required to repair, patch, replace, render properly cleaned surfaces (by sandblasting if necessary) or otherwise make good any defective concrete, at Contractor's expense, including all expense of additional inspection, tests, or supervision made necessary as a result of defective concrete.

3.09 CLEAN-UP

- A Upon completion of cast-in-place concrete remove all debris, materials and equipment occasioned by this Work to the approval of the Owner's Representative.

END OF SECTION

**SECTION 03361
SWIMMING POOL WET MIX SHOTCRETE**

PART 1-GENERAL

1.1 GENERAL CONDITIONS

The requirements of the "General Conditions of the- contract" and of Division 1, "General Requirements," shall apply to all work of this Section with the same force and effect as though repeated in full herein.

1.2 SCOPE OF WORK

A. Work Included:

1. Shotcrete as detailed on the Construction Documents as required for swimming pool structures.
2. Refer to the drawing for more technical specs. In case of any discrepancies the more stringent in drawings and or specs apply to this job

1.3 QUALITY ASSURANCE

A. All Work of this Section shall be performed by the swimming pool contractor/subcontractor.

B. Qualifications of Workers:

1. To be eligible as a bidder, Contractor shall have had at least three (3) years experience in shotcrete construction and shall be able to list at least five (5) installations of this type and size which, upon investigation, have been found to have been completed in a satisfactory manner. Improper Work will be immediately rejected.
2. Use only thoroughly trained and experienced superintendents, gun operators, nozzle operators, and finishers with at least three (3) years experience who are completely familiar with the materials and methods specified.

C. Standards: Except as otherwise indicated, provide shotcrete per American Concrete Institute Standard ACI 506. In addition, conform to recommendations contained in "Shotcrete," brochure G-84 as published by the Guniting Contractors Association, Sylmar, CA.

D. Mix Design: The shotcrete subcontractor shall submit a mix design for approval by the Owner's Representative prior to any placement of shotcrete. Mix design shall indicate source of aggregate and brands of cement and admixtures used. All mix designs shall take character of locally available aggregate into

consideration and make adjustments as necessary to conform with specified design criteria.

- E. Testing and Inspection: At least three (3) cores shall be taken from the completed work for each day of shotcrete operation. Testing shall be performed by Owner's Testing Lab and comply with Section 1922A.10, Title 24, California Code of Regulations. Continuous inspection of the shotcrete operation by a deputy inspector provided by the Owner shall be required. Inspection of pneumatically placed concrete work shall comply with Section 1922A.11, 1928A.10 & 1928A.11, Title 2:4, California Code of Regulations and coring, sampling, soaking and testing per 1922A.10.

1.4 SUBMITTALS

- A. Provide submittals in accordance with Section 01300.
- B. Materials List: Within fifteen (15) d ys after issuance of Notice to Proceed, and before shotcrete materials are delivered to the project site, submit to the Owner's Representative a complete list of materials proposed to be used in this portion of the Work, showing manufacturer's name and catalog number of all items such as admixtures and curing membranes, and the name and address of the supplier of cement and aggregate to be used.

1.5 PRODUCT HANDLING

- A. Protection: Use all means necessary to protect shotcrete materials before, during and after installation and to protect the installed Work of all other trades.
- B. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Owner's Representative and at no additional cost to the Owner.

PART 2- PRODUCTS

2.1 MATERIALS

- A. Cement:
 - 1. Cement shall be Type I or II Portland Cement conforming to ASTM C150. Cement type shall be the same for all shotcrete work.
- B. Aggregate:
 - 1. ASTM C33, washed hard dense durable clean sharp sand from approved pit, free of organic matter and opaline, feldspar, or silicious magnesium substances and containing not more than 3% by weight of deleterious substances. When tested for organic impurities by ASTM C40 method, fine aggregate color not darker than reference standard color. When

tested for soundness by ASTM C88 method, loss after 5 cycles not over 10% of fine aggregate.

C. Water:

1. Potable, clean, fresh, free from acid, alkali, organic matter or other impurities liable to be detrimental to the shotcrete.

D. Admixtures:

1. Admixtures shall only be used upon approval of the Owner's Representative.

PART 3- EXECUTION

3.1 EXECUTION

A. Inspection:

1. Prior to all Work of this Section carefully inspect the installed Work of other trades and verify that all such Work is complete to the point where this installation may properly commence.
2. Verify that items to be imbedded in shotcrete are in place and that shotcrete may be placed to the lines and elevations shown on the Drawings, with all required clearance from reinforcement.

B. Discrepancies:

1. In the event of discrepancy, immediately notify the Owner's Representative.
2. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.
3. Failure to notify the Owner's Representative and give written notice of discrepancies shall constitute acceptance by the Contractor of existing conditions as fit and proper to receive the Work.

3.2 PREPARATION

A. General:

1. Thoroughly clean all areas where shotcrete is to be placed to insure proper bonding of shotcrete.

2. Where shotcrete is to be placed against smooth surfaces (i.e., cast-in-place concrete), sandblast surfaces to receive shotcrete to provide clean aggregate surface, thereby insuring proper bond between materials.
 3. Construction joints shall conform to CBC 1922A.7.
- B. Ground Wires: Adequate ground wires, to be used as screeds, shall be installed to establish the thickness and surface planes of the shotcrete work. Ground wires shall be placed so that they are tight and true to line and grade and in such a manner that they can be easily tightened.

3.3 PROPORTIONING AND MIXING

- A. Accurately control proportion of water to portland cement to produce thorough and uniform hydration of the shotcrete that, when shot, forms a homogeneous mass containing neither sags nor dry sand formation.
1. Strength: Minimum 3,000 psi 28-day compressive strength unless otherwise indicated.
- B. Discontinue shotcrete work if the time between the addition of mixing water to cement and aggregate, or cement to aggregates, and placement of shotcrete exceeds 90 minutes when the ambient temperature is below 85 degree F, or exceeds 60 minutes when the ambient temperature is above 85 degree F.

3.4 SHOTCRETE PLACING, FINISHING, AND CURING

- A. Operations: Utilize a standard type of air compressor, capable of providing a minimum of 250 cubic feet of air per minute per nozzle.
- B. Placing: Except when shooting reinforcing, hold the nozzle perpendicular to and 2-1/2 to 3 feet from surface. At reinforcing bars, hold the nozzle so as to direct shotcrete behind the bars, and shoot each side of each bars separately. A nozzleman's helper equipped with an air jet shall precede the nozzle and blow out rebound or sand lodged behind bars, on forms, or placed shotcrete. Placing shotcrete horizontal members from the top is not allowed unless approved methods are employed to eliminate all rebound. Material shall emerge from the nozzle in a uniform flow. If flow becomes intermittent for any reason, direct the nozzle away from the surface until the flow is again steady and constant. Do not reuse rebound or loose sand for any purpose.
- C. Puddled Shotcrete: Use of "puddled shotcrete" in which the air pressure is reduced and the water content is increased to facilitate placing in difficult locations is not allowed. Do not place shotcrete where nozzle stream cannot impinge directly on the involved surface. Where difficult shooting conditions occur, obtain proper results by maintaining correct air pressure and water ratio and reduce supply of material.

- D. Construction Joints: Form joints with sloping beveled edges. Clean and dampen the hardened joint surfaces before placing additional shotcrete. Square edged construction joints are not allowed.
- E. Finishing: Rod exposed surfaces to true planes and lines on reaching the thickness and plane established by forms and ground wires. Tamp and wood float surfaces level and provide a steel trowel finish read to receive painted finish.
- F. Curing: Keep shotcrete continuously damp for not less than 7 days after placing. Use sealed curing sheeting or other approved curing method where water curing is not feasible. Do not use curing compound of any kind.

3.5 DEFECTIVE WORK

- A Cut out, remove and replace, or repair to the satisfaction of the Owner's Representative shotcrete not meeting compressive strength requirements, not true, plumb or level, not to required elevations, containing cracks detrimental to performance or appearance, containing shavings, debris or voids.
- B. Promptly perform Work required to repair, patch, replace, render properly cleaned surfaces (by sandblasting if necessary) or otherwise make good any defective shotcrete at Contractor's expense, including all expense of additional inspection, tests, or supervision made necessary as a result of defective shotcrete.

3.6 CLEAN-UP

- A Upon completion of the Work of this Section, immediately remove all shotcrete materials, debris and rubbish occasioned by this work to the approval of the Owner's Representative.

END OF SECTION

SECTION 09882

SWIMMING POOL FIBERGLASS COATING

PART1-GENERAL

1.1 GENERAL CONDITIONS

The requirements of the "General Conditions of the contract" and of Division 1, "General Requirements," shall apply to all work of this Section with the same force and effect as though repeated in full herein.

1.2 DESCRIPTION

A. Work Included:

Provide all labor, materials, and equipment necessary to install fiberglass coating as indicated on the "WP" Drawings and herein specified.

1.3 QUALITY ASSURANCE

A. All Work of this Section shall be performed by the swimming pool contractor/subcontractor. .

B Qualifications of Workers:

1. The contractor/subcontractor for this portion of the Work shall have been successfully engaged in the business of fiberglass coating for at least five (5) years immediately prior to commencement of this work, and shall demonstrate to the approval of the Owner's Representative that its record of workmanship is satisfactory.
2. For actual construction operations, use only thoroughly trained and experienced workers completely familiar with the materials and methods specified.
3. Provide at least one person who shall be present at all times during the execution of this portion of the Work and who shall be thoroughly familiar with the materials and methods specified, and who shall direct all Work performed under this Section.

1.4 SUBMITTALS AND SUBSTITUTIONS

A. Provide submittals and substitutions in conformance with requirements of Section 01300.

1.5 PRODUCT HANDLING

CITY OF SACRAMENTO
CABRILLO POOL MAINTENACE UPGRADE

- A. Delivery: Deliver materials to the Project Site in the manufacturer's original unopened containers with all labels intact and legible.
- B. Storage: Store materials under cover in a manner to prevent damage and contamination, and store only the specified materials at the Project Site.
- C. Protection: Use all means necessary to protect swimming pool fiberglass before, during and after installation and to protect the installed Work and materials of other trades.
- D. Replacements: In the event of damage, immediately make all repairs and Replacements necessary to the approval of the Cityr's Representative.

PART 2- PRODUCTS

2.1 MATERIALS

- A. Chopped glass fibers for reinforcement of the fiberglass mixture shall be of a diameter and length appropriate for the application, and as manufactured PPG Industries, or an approved equal.
- B. Resin, pastes, additives, primers and top coats shall be of type specifically formulated and developed for the use in swimming pools, such as Koppers, or an approved equal.

2.2 STANDARDS

- A. Applied fiberglass surface shall be capable of withstanding temperatures as low as 0 Fahrenheit, have a tensile strength of 14,000 psi, and flexural strength of not less than 23,000 psi.
- B. Mixture of fiberglass shall be based upon a glass-to-resin ratio of 31% with an application thickness of approximately 1/8".
- C. Sand shall be of the appropriate sieve size, density and grain angularity to properly and thoroughly scour and expose original base condition of surfaces specified to be sand-cleaned or to etch the surfaces.

PART 3- EXECUTION

3.1 SURFACE CONDITIONS

- A. Inspection:
 - 1. Prior to all Work of this Section, carefully inspect the work of other trades and verify that all such Work is complete to the point where this installation can properly commence.
- B. Discrepancies:
 - 1. In the event of discrepancy, immediately notify the Owner's Representative.

2. Do not proceed in areas of discrepancy until all such discrepancies have been fully resolved.
3. Failure to notify the City's Representative and give written notice of discrepancies shall constitute acceptance by the Contractor of existing conditions as fit and proper to receive the Work.

3.3 ENVIRONMENTAL CONDITIONS

- A. Rain: Do not install fiberglass during rain or precipitation (including wet fog), if rain commences after fiberglass application has begun, immediately protect the fiberglass from precipitation by all necessary means until fiberglass has cured.
- B. Wind: Do not install fiberglass during wind, and if wind commences after fiberglass application has begun, stop the work and remove from the surface of the fiberglass any and all debris down onto the fiberglass.

3.4 PREPARATION

- A. Wash all concrete surfaces to remove algae growth or other foreign materials. Rinse with clean potable water and completely remove all residue and liquid from the bottom of the pool.

3.5 APPLICATION

- A. Bonding Coat: Apply the special bonding coat to all surfaces which are to be fiberglassed by brushing.
- B. Fiberglass: Apply fiberglass material to minimum thickness of one-eighth (1/8th) inch with the approved integral color (white), using spray equipment specifically designated for the class of work, such as manufactured by Binks, or an approved equal pressure method of application, under appropriate environmental and atmospheric conditions of humidity, temperature, etc.
- C. Accurately interface with the finish plains of existing surfaces and items, or those installed by other trades.
- D. Provide non-slip surfaces throughout entire pool; P.P.G. glass beads or equal.
- E. Provide pool lane line markers and target pairs in black color or as approved by City representative.

3.6 CURING

- A. Preparation: Anticipate the need for required equipment and have all such equipment immediately available for use following completion of the fiberglass
- B. Inspection: After the proper curing period, this contractor shall inspect all surfaces

of the work of this section for deficiencies. All sharp splinters or hairs at curbs, ramps, steps, gutter, fixtures and other mechanical devices within the pool shall be removed and all surfaces shall be hand-sanded until all surfaces are smooth and uniform throughout the entire swimming pool.

- C. Re-install: Reset all hardware, apparatus or mechanical devices removed during the fiberglass application.

3.6 WARRANTY

- A. Before acceptance of the work of this section, complete the form of Warranty, which shall be for a period of five (5) years from date of acceptance.

3.7 CLEAN-UP

- A. Upon completion of fiberglass coating, remove all debris, materials and equipment occasioned by this Work to the approval of the Owner's Representative.

END OF SECTION

CABRILLO PARK

POOL MAINTENANCE UPGRADE

1648 65TH AVENUE, SACRAMENTO, CALIFORNIA

Terracon COMPANY

NEIL O. ANDERSON AND ASSOCIATES

5075 COMMERCIAL CIRCLE, SUITE E
CONCORD, CALIFORNIA 94520
PHONE: (925) 609-7224
FAX: (925) 609-6324

GEOTECHNICAL
ENVIRONMENTAL
STRUCTURAL
INSPECTIONS & TESTING
LABORATORY SERVICES
POOL ENGINEERING
POST TENSION DESIGN

GENERAL NOTES

- NOA IS NOT RESPONSIBLE OR LIABLE FOR THE CONDITION OF EXISTING POOL SHELL AND PROVIDES NO GUARANTEE OR WARRANTY THAT THE EXISTING SHELL MEETS CURRENT INDUSTRY STANDARD OR CODE 2. INTERPRETATION OF DRAWINGS & SPECIFICATIONS
- FOR CONVENIENCE, SPECIFICATIONS HAVE BEEN PREPARED FOR THIS PROJECT AND ARE ARRANGED IN SEVERAL SECTIONS, BUT SUCH SEPARATION SHALL NOT BE CONSIDERED AS THE LIMITS OF THE WORK REQUIRED OF ANY SEPARATE TRADE. THE TERMS AND CONDITIONS OF SUCH LIMITATIONS ARE WHOLLY BETWEEN THE CONTRACTOR AND HIS SUBCONTRACTORS.
- IN GENERAL, THE WORKING DETAILS WILL INDICATE DIMENSIONS, POSITION AND KIND OF CONSTRUCTION, AND THE SPECIFICATIONS, QUALITIES AND METHODS. ANY WORK INDICATED ON THE WORKING DETAILS AND NOT MENTIONED IN THE SPECIFICATION, OR VICE VERSA, SHALL BE FURNISHED AS THOUGH FULLY SET FORTH IN BOTH. WORK NOT PARTICULARLY DETAILED, MARKED OR SPECIFIED, SHALL BE THE SAME AS SIMILAR PARTS THAT ARE DETAILED, MARKED OR SPECIFIED. IF CONFLICTS OCCUR ON DRAWINGS AND/OR SPECIFICATIONS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- SHOULD AN ERROR APPEAR IN THE WORKING DETAILS OR SPECIFICATIONS OR IN WORK DONE BY OTHERS AFFECTING THIS WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER/ARCHITECT AT ONCE AND IN WRITING. IF THE CONTRACTOR PROCEEDS WITH THE WORK SO AFFECTED WITHOUT HAVING GIVEN SUCH WRITTEN NOTICE AND WITHOUT RECEIVING THE NECESSARY APPROVAL, DECISION OR INSTRUCTIONS IN WRITING FROM THE OWNER, THEN HE SHALL HAVE NO VALID CLAIM AGAINST THE OWNER, FOR THE COST OF SO PROCEEDING AND SHALL MAKE GOOD ANY RESULTING DAMAGE OR DEFECT. NO VERBAL APPROVAL, DECISION, OR INSTRUCTION SHALL BE VALID OR BE THE BASIS FOR ANY CLAIM AGAINST THE OWNER, ITS OFFICERS, EMPLOYEES OR AGENTS. THE FOREGOING INCLUDES TYPICAL ERRORS IN THE SPECIFICATIONS OR NOTATIONAL ERRORS IN THE WORKING DETAILS WHERE THE INTERPRETATION IS DOUBTFUL OR WHERE THE ERROR IS SUFFICIENTLY APPARENT AS TO PLACE A REASONABLY PRUDENT CONTRACTOR ON NOTICE THAT, SHOULD HE ELECT TO PROCEED, HE IS DOING SO AT HIS OWN RISK.
- CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS.
- SAFETY NOTE:
 - IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS, AS THEY APPLY TO THIS PROJECT, OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA LATEST EDITION, AND ALL OSHA REQUIREMENTS.
 - THE OWNER AND THE STRUCTURAL ENGINEER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER PORTION OF THE CONTRACT DOCUMENTS OR EXISTING FIELD CONDITIONS. SUCH NOTIFICATION SHALL BE GIVEN IN DUE TIME SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. IN CASE OF A CONFLICT BETWEEN STRUCTURAL DRAWINGS AND SPECIFICATIONS THE MORE RESTRICTIVE CONDITION SHALL TAKE PRECEDENCE UNLESS WRITTEN APPROVAL HAS BEEN GIVEN FOR THE LEAST RESTRICTIVE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH PROJECT DOCUMENTS PRIOR TO COMMENCING ANY WORK.
- WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT. SHOULD THERE BE ANY QUESTION, CONTACT THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING. CONTRACTOR SHALL PROVIDE AN ALLOWANCE EQUAL TO 2% OF THE BID FOR REINFORCING STEEL TO BE USED AT THE DISCRETION OF THE ENGINEER UNUSED AMOUNT TO REVERT TO THE OWNER UPON COMPLETION OF THE JOB.
- ANY SUBSTITUTIONS OR ALTERNATE DETAILS SHALL BE REVIEWED BY THE ARCHITECT/ENGINEER. SUCH REVIEW WILL REQUIRE A TIME AND MATERIALS CONTRACT TO BE SET UP WITH THE GENERAL CONTRACTOR WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.
- DO NOT SCALE DRAWINGS. CONTACT THE ARCHITECT OR ENGINEER FOR ANY DIMENSIONS NOT SHOWN. 11. THESE DRAWINGS ARE NOT COMPLETE UNTIL REVIEWED AND ACCEPTED BY THE DEPARTMENT OF STATE ARCHITECTURE.

MATERIALS:

- SHOTCRETE: (WET-PROCESS ONLY, NO DRY GUNITE)
 - SHOTCRETE SHALL BE PLACED AND PROPORTIONED ACCORDING TO C.B.C. SECTION 1910 AND ACI 506. CEMENT TO AGGREGATE, IN DRY WEIGHT, SHALL NOT BE LESS THAN ONE TO FIVE.
 - MINIMUM COMPRESSIVE STRENGTH, F'C, SHALL BE 4,000 PSI @ 28 DAYS
 - AGGREGATE: 3/8" MAX
 - CEMENT CONTENT: 600 LBS/YDS MIN. TYPE V CEMENT SHALL BE USED.
 - W/C RATIO: 0.45 MAX
 - SHRINKAGE AT 28 DAYS (PER ASTM C-157) SHALL NOT EXCEED 0.055% FOR DRY CURING.
 - SHOTCRETE REBOUND SHALL BE REMOVED AND DISCARDED. REBOUND SHALL NOT BE REUSED IN POOL WALLS, FLOORS, OR STEPS.
 - SHOTCRETE SHALL BE PLACED ON OR AGAINST FIRM UNDISTURBED SOIL.
 - ALL ELECTRICAL SHALL BE SECURELY GROUNDED IN ACCORDANCE WITH ARTICLE 680 OF THE 2013 NATIONAL ELECTRICAL CODE BEFORE SHOTCRETE IS PLACED.
 - CONSTRUCTION JOINTS WILL BE REQUIRED DUE TO SHOTCRETE PLACEMENT OVER MULTIPLE DAYS, JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 506R-05. HORIZONTAL CONSTRUCTION JOINTS SHALL BE AVOIDED IN WALLS UNLESS APPROVED BY THE PROJECT ENGINEER.
- CONCRETE: THE SPECIFIED CONCRETE IS FOR USE AT CONTRACTOR'S OPTION IN LIEU OF SHOTCRETE.
 - NORMAL WEIGHT CONCRETE SHALL BE MIXED AND PROPORTIONED IN ACCORDANCE WITH ACI 301.
 - MINIMUM COMPRESSIVE STRENGTH, F'C, SHALL BE 4,000 PSI @ 28 DAYS
 - SLUMP: 3" ± 1"
 - AGGREGATE: 1 INCH MAX. SHALL CONFORM TO ASTM C-33
 - CEMENT CONTENT: 600 LBS/YDS MIN. CEMENT SHALL MEET ASTM C-150 AND BE TYPE V.
 - W/C RATIO: 0.45 MAX
 - SHRINKAGE AT 28 DAYS (PER ASTM C-157) SHALL NOT EXCEED 0.055% FOR DRY CURING.
 - CONCRETE MIX DESIGN SHALL BE PREPARED BY AN INDEPENDENT LABORATORY AND REVIEWED BY THE STRUCTURAL ENGINEER.
 - CONSOLIDATE CONCRETE PLACED INFORMS BY MECHANICAL VIBRATING EQUIPMENT. USE EQUIPMENT AND PROCEDURES FOR CONSOLIDATION OF CONCRETE IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF ACI 309 TO SUIT THE TYPE OF CONCRETE AND PROJECT CONDITIONS.
- REINFORCEMENT:
 - USE C.B.C. SECTION 1910 AND ACI 318 CHAPTER 7 AS A GUIDELINE.
 - REINFORCEMENT SHALL BE ASTM-A615 GRADE 40 OR BETTER.
 - LAP SPLICES SHALL BE 40 BAR DIAMETERS. SEE DETAIL 2/SP1.1
 - NON-CONTACT LAP SPLICING SHALL BE UTILIZED IN ACCORDANCE WITH C.B.C. FOR SHOTCRETE CONSTRUCTION. MAINTAIN MINIMUM 2" CLEAR SPACING BETWEEN REINFORCEMENT.
 - 3" MIN COVER FOR REINFORCEMENT TO SOIL.
 - UP TO 2 INCH DIAMETER PIPES MAY BE PLACED IN THE LOWER OUTSIDE CORNER OF THE BOND BEAM. A 1.5 INCH CLEARANCE SHALL BE MAINTAINED BETWEEN PIPING AND ANY PARALLEL REINFORCEMENT. IF METAL PIPING IS USED AND IS PLACED IN SHOTCRETE, IT SHALL BE WRAPPED IN VISQUEEN OR HEAVY BROWN PAPER, EXCEPT WHERE IT PASSES PERPENDICULARLY THROUGH THE SHOTCRETE.
 - ALL PREHEATING AND WELDING OF REINFORCING BARS SHALL BE DONE IN ACCORDANCE WITH AWS D1.4 LATEST EDITION AND SHALL BE CONTINUALLY INSPECTED BY A QUALIFIED LABORATORY. CONTRACTOR SHALL FURNISH TO THE LABORATORY, REBAR MILL CERTIFICATES, WELD ELECTRODES SHALL BE EPOXY UNLESS SPECIFICALLY NOTED OTHERWISE.
- EXISTING POOL BACKFILL:
 - 3 INCH DIAMETER DRAIN HOLES SHALL BE INSTALLED IN EXISTING POOL SHELL DEEP END. DRAIN HOLES SHOULD BE MADE EVERY 300 SQ FT (MIN 3 HOLES). PRIOR TO PLACEMENT OF GRAVEL.
 - 3/4" CLEAN GRAVEL BLANKET OR CALTRANS CLASS II PERMEABLE MATERIAL SHALL BE USED TO BACKFILL EXISTING POOL VOIDS FOR NEW POOL CONSTRUCTION.

CRACK REPAIR:

- SHRINKAGE CRACK TOLERANCE: 0.02". CRACKS TO BE REPAIRED SHALL BE V-NOTCHED TO A MINIMUM DEPTH OF 3/4" AND FILLED WITH PATCHING MORTAR PRIOR TO PLASTER.

REMODEL NOTES:

- WHERE NEW SHOTCRETE IS PLACED AGAINST EXISTING CONCRETE OR SHOTCRETE, THE INTERFACE SHALL BE CLEAN AND FREE OF LAITANCE. THE INTERFACE IS TO BE INTENTIONALLY ROUGHENED TO 1/4" AMPLITUDE. ALL LOOSE OR DETERIORATED MATERIAL IS TO BE REMOVED. (E) SHOTCRETE TO BE AT A STANDARD SATURATED SURFACE DRY CONDITION AT THE INTERFACE PRIOR TO PLACEMENT ON (N) SHOTCRETE. APPLY BONDING AGENT SUCH AS CEMENT PASTE TO INTERFACE PRIOR TO (N) SHOTCRETE PLACEMENT.
- EPOXY TO BE SELECTED FROM THE FOLLOWING LIST OR AN APPROVED EQUAL. ALL HOLES SHOULD BE BLOWN OUT WITH COMPRESSED AIR PRIOR TO INSTALLING EPOXY TO ENSURE GOOD BOND. INSTALL EPOXY PER MANUFACTURERS ICC REPORT, SIMPSON SET-XP ICC-ES REPORT ESR-2508 HILTI HIT-HY 150 MAX-SD ICC-ES REPORT ESR-3013

PRE-CONSTRUCTION SHOTCRETE TESTING:

- SHOTCRETE NOZZLEMAN: NOZZLEMAN SHALL BE A QUALIFIED INSTALLER EMPLOYING NOZZLE OPERATORS WHO POSSESSES ACI NOZZLEMAN CERTIFICATION AND ATTAIN MEAN CORE GRADES NOT EXCEEDING 2.5, ACCORDING TO ACI 506.2, ON PRECONSTRUCTION TESTS.
- PRE-CONSTRUCTION TESTING SERVICE: OWNER SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AGENCY TO PERFORM PRECONSTRUCTION TESTING AND INSPECTIONS INDICATED BELOW.
 - PRODUCE TEST PANELS AT LEAST 2 WEEKS BEFORE SHOTCRETE PLACEMENT ACCORDING TO REQUIREMENTS IN ACI 506.2 AND ASTM C 1140 FOR EACH DESIGN MIX, SHOOTING ORIENTATION AND NOZZLE OPERATOR.
 - PRE-CONSTRUCTION TEST SHALL HAVE MINIMUM DIMENSIONS OF 48 INCHES BY 48 INCHES IN OUTER DIMENSION. PANEL THICKNESS AND REINFORCEMENT SHALL SIMULATE THE MOST CONGESTED REINFORCEMENT AND THICKEST AREA SPECIFIED ON POOL STRUCTURAL DETAILS.
 - PRE-CONSTRUCTION TEST PANELS MAY BE CONSTRUCTED AT THE PROJECT SITE OR AT THE SHOTCRETE SUPPLIER CONSTRUCTION YARD LOCATION. TEST PANEL FORMWORK, ALL REINFORCEMENT, AND SHOTCRETE SHALL BE SUPPLIED BY THE CONTRACTOR. DISPOSAL OF THE TEST PANEL AFTER TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - TEST PANELS SHALL BE FIELD CURED IN ACCORDANCE WITH ASTM C1140 AND FIELD CORED. TEST PANEL SHALL FIELD CURE FOR 7 DAYS PRIOR TO TESTING. CORES SHALL BE TAKEN FROM THE PORTION OF THE PANEL SPECIFIED IN ASTM C1140. FROM EACH TEST PANEL, TESTING AGENCY WILL OBTAIN SIX TEST SPECIMENS: ONE SET OF THREE SPECIMENS UNREINFORCED AND ONE SET OF THREE SPECIMENS REINFORCED. AGENCY WILL PERFORM THE FOLLOWING:
 - TEST EACH SET OF UN-REINFORCED SPECIMENS FOR COMPRESSIVE STRENGTH ACCORDING TO ASTM C42. THE AVERAGE COMPRESSIVE STRENGTH OF THE FIELD CURED CORES SHALL BE AT LEAST 0.6Fc WITH NO SINGLE CORE LESS THAN 0.53Fc.
 - VISUALLY INSPECT EACH SET OF REINFORCED SHOTCRETE CORES TAKEN FROM TEST PANELS AND DETERMINE MEAN CORE GRADES ACCORDING TO ACI 506.2.
 - THE EQUIPMENT USED IN PRE-CONSTRUCTION TESTING SHALL BE THE SAME EQUIPMENT USED IN THE WORK UNLESS SUBSTITUTE EQUIPMENT IS APPROVED. SHOTCRETE SHALL BE SHOT AT THE SAME ANGLE, USING THE SAME NOZZLEMAN, AND WITH THE SAME SHOTCRETE MIX DESIGN THAT WILL BE USED ON THE PROJECT.

DESIGN CRITERIA

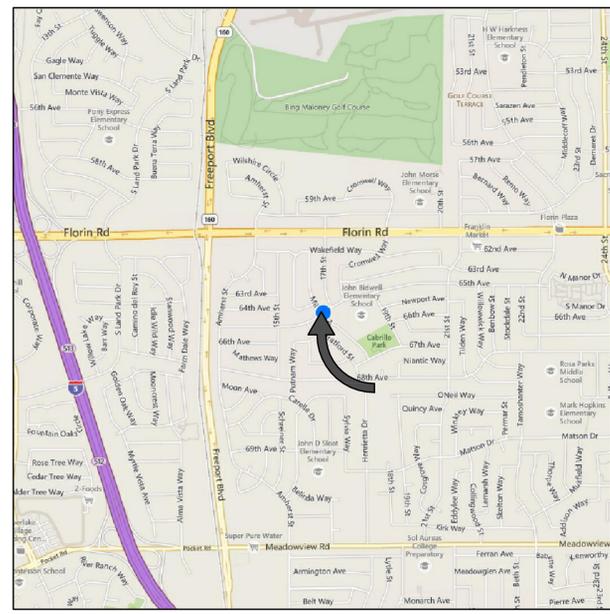
- CODES AND STANDARDS
2013 CALIFORNIA BUILDING CODE (CBC)
2011 ACI

TEST AND INSPECTIONS

- TESTS AND INSPECTIONS SHALL BE PROVIDED BY A QUALIFIED TEST AGENCY AS REQUIRED BELOW AND SHALL CONFORM TO THE REQUIREMENTS OF THE 2013 CBC SECTION 1701 A.

- | | |
|--|---|
| <p>FILL COMPACTION</p> <ul style="list-style-type: none"> <input type="checkbox"/> REINFORCEMENT STEEL ** <input type="checkbox"/> CONCRETE (EVERY 50 YDS) <input checked="" type="checkbox"/> STRUCTURAL STEEL <input type="checkbox"/> MASONRY - PRISM TESTS PER UBC STANDARD 21-17 <input type="checkbox"/> GROUT AND MORTAR <input type="checkbox"/> EPOXY <input checked="" type="checkbox"/> SHOTCRETE (TEST PANEL) <input checked="" type="checkbox"/> (1 PANEL/50YDS/DAY) | <p>FOOTING EXCAVATION</p> <ul style="list-style-type: none"> <input type="checkbox"/> PILE/PIER INSTALLATION <input type="checkbox"/> REINFORCEMENT PLACEMENT <input checked="" type="checkbox"/> SHOP WELDING * <input type="checkbox"/> FIELD WELDING <input checked="" type="checkbox"/> HIGH STRENGTH BOLTING <input type="checkbox"/> MASONRY PLACEMENT <input type="checkbox"/> SHEAR STUD INSTALLATION <input type="checkbox"/> EPOXY AND EXPANSION ANCHORS <input checked="" type="checkbox"/> SHOTCRETE/CONCRETE PLACEMENT <input checked="" type="checkbox"/> <p>* WELDING MUST BE PERFORMED IN A SHOP APPROVED BY THE BUILDINGS OFFICIAL AND STRUCTURAL ENGINEER.</p> |
|--|---|

DRAWING INDEX	
SP0.0	Cover Sheet, Vicinity Map, and Notes
SP1.0	Pool Remodel Pool Plan
SP1.1	Pool Remodel Details
SP1.2	Pool Remodel Sections & Details



VICINITY MAP



ABBREVIATION LEGEND	
TYP - TYPICAL	MIN - MINIMUM
EMBED - EMBEDMENT	MAX - MAXIMUM
CLR - CLEARANCE	VERT. - VERTICAL
CNTR - CENTER	HORIZ. - HORIZONTAL
SCH - SCHEDULE	TRANS. - TRANSVERSE
O.C. - ON CENTER	LONG. - LONGITUDINAL
E.W. - EACH WAY	REINF. - REINFORCEMENT
U.N.O. - UNLESS NOTED OTHERWISE	
S.A.D. - SEE ARCHITECTURAL DETAILS	
LAB - LENGTH OF ALTERNATE BARS	

Vicinity Map, Drawing Index, and Notes

CABRILLO PARK SWIMMING POOL
1648 65TH AVENUE
SACRAMENTO, CALIFORNIA

DATE	DESCRIPTION	APPR
1		1
2		2
3		3
4		4
5		5
6		6
7		7
8		8



Signature Date: 3/3/2015

PROJECT NUMBER:
ND155013E

SCALE:
AS NOTED

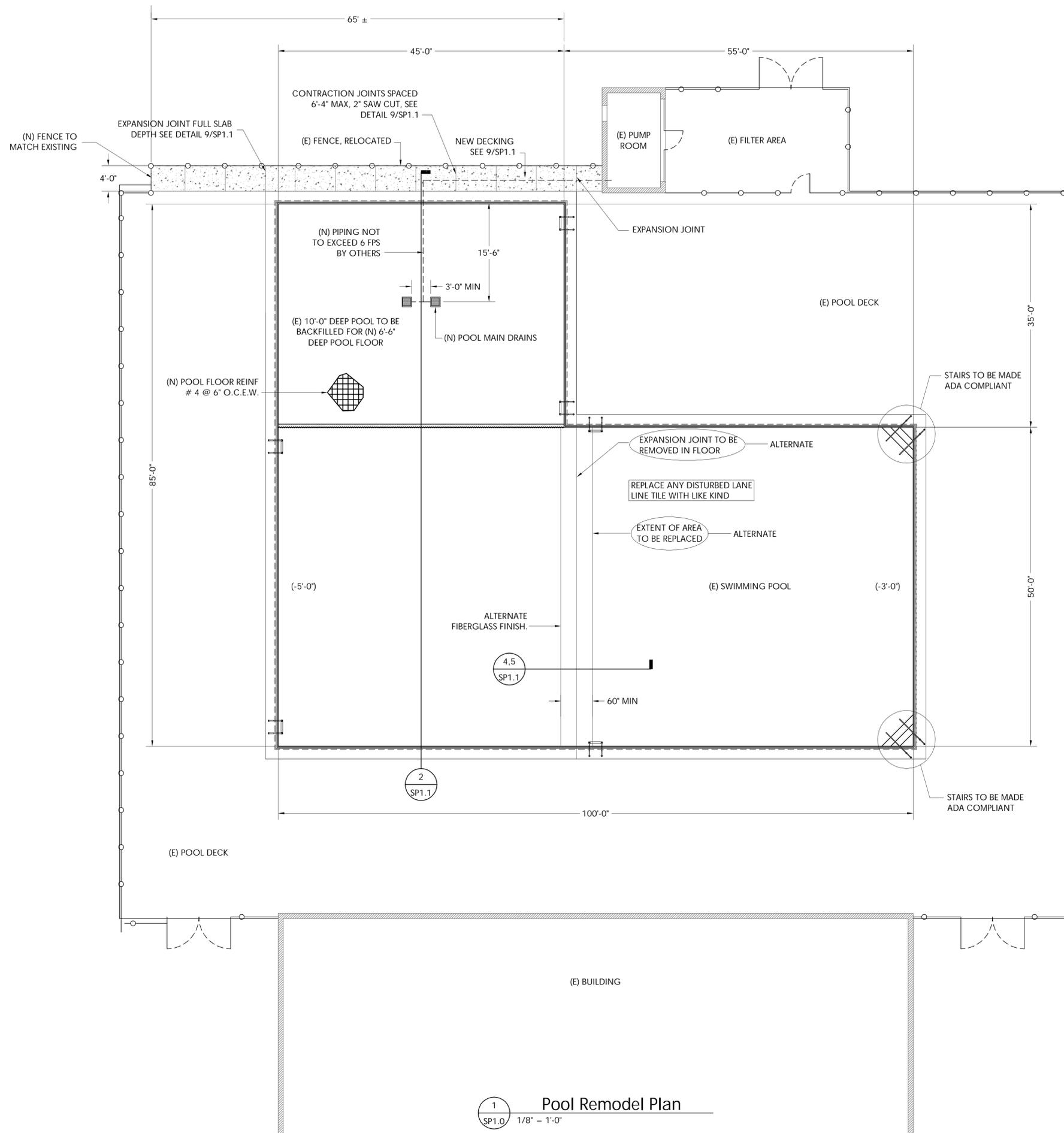
DATE:
02/24/15

DRAWN BY:
E. NUÑEZ

DESIGNED BY:
N. SMITH

SP0.0

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1 Pool Remodel Plan
SP1.0 1/8" = 1'-0"

Terracon
COMPANY

NEIL O. ANDERSON
AND ASSOCIATES

5075 COMMERCIAL CIRCLE, SUITE E
CONCORD, CALIFORNIA 94520
PHONE: (925) 609-7224
FAX: (925) 609-6324

GEOTECHNICAL
ENVIRONMENTAL
STRUCTURAL
INSPECTIONS & TESTING
LABORATORY SERVICES
POOL ENGINEERING
POST TENSION DESIGN

Pool Plan

CABRILLO PARK SWIMMING POOL
1648 65TH AVENUE
SACRAMENTO, CALIFORNIA

DATE	DESCRIPTION	APPR
1		
2		
3		
4		
5		
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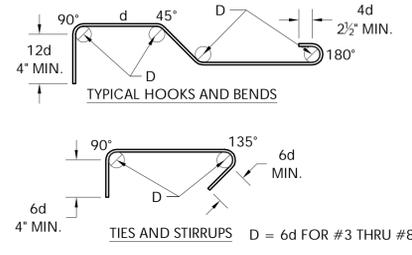
REGISTERED PROFESSIONAL ENGINEER
No. 64987
CIVIL
STATE OF CALIFORNIA

Signature Date: 3/3/2015

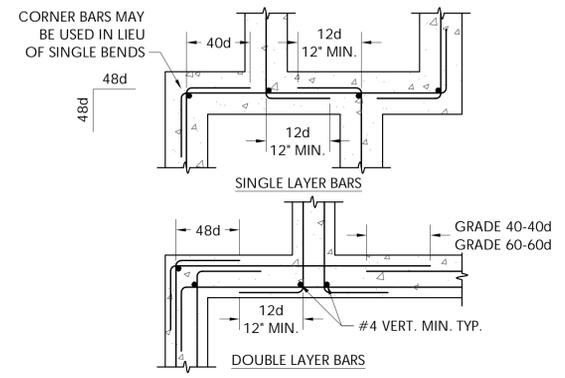
PROJECT NUMBER:	ND155013E
SCALE:	AS NOTED
DATE:	02/24/15
DRAWN BY:	E. NUÑEZ
DESIGNED BY:	N. SMITH

SP1.0

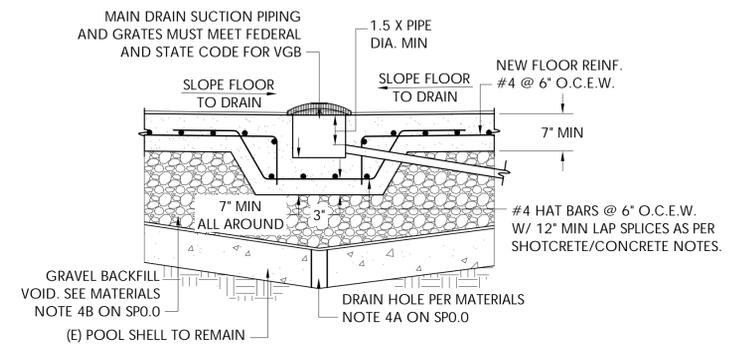
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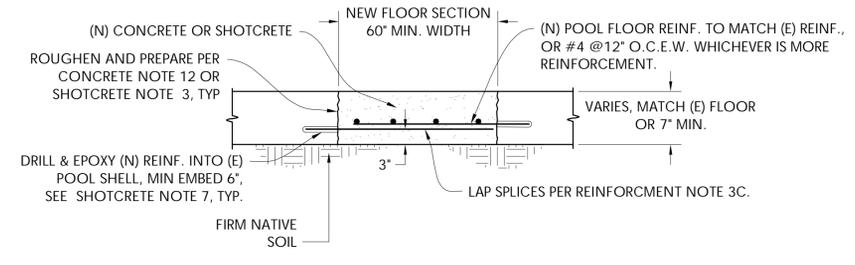
1 Reinforcement Bends
SP1.1 3/4" = 1'-0"



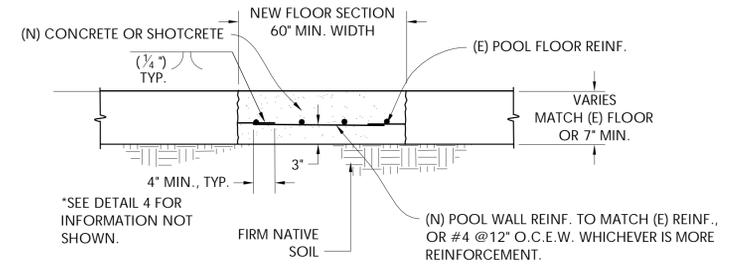
2 Reinforcement Corners
SP1.1 3/4" = 1'-0"



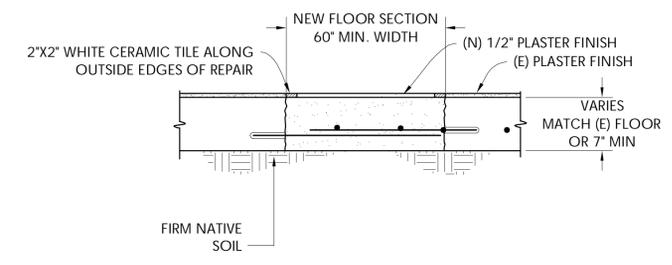
3 New Main Drain
SP1.1 N.T.S.



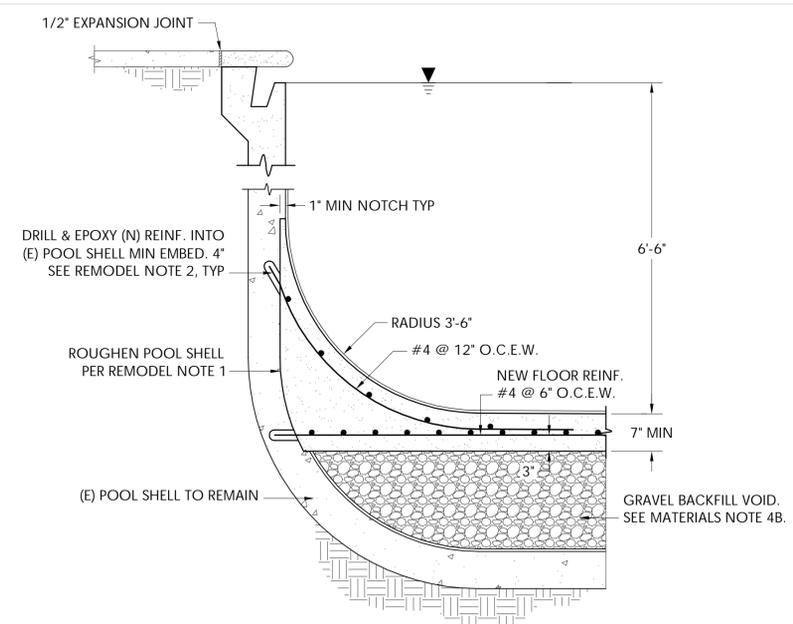
4 Typ. Expansion Joint Replacement At Floor
SP1.1 N.T.S.



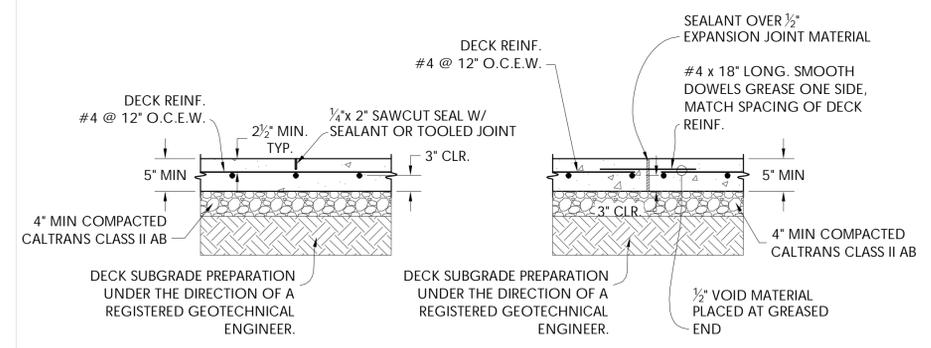
5 Alternate Expansion Joint Replacement at Floor
SP1.1 N.T.S.



6 Floor Finish
SP1.1 N.T.S.



7 Pool Floor Remodel
SP1.1 3/4" = 1'-0"



9 (N) Decking Joints
SP1.1 N.T.S.

Terracon COMPANY

NEIL O. ANDERSON AND ASSOCIATES

5075 COMMERCIAL CIRCLE, SUITE E
CONCORD, CALIFORNIA 94520
PHONE: (925) 609-7224
FAX: (925) 609-6324

GEOTECHNICAL
ENVIRONMENTAL
STRUCTURAL
INSPECTIONS & TESTING
LABORATORY SERVICES
POOL ENGINEERING
POST TENSION DESIGN

Pool Details

CABRILLO PARK SWIMMING POOL
1648 65TH AVENUE
SACRAMENTO, CALIFORNIA

APPR	DESCRIPTION	DATE

Signature Date: 3/3/2015

PROJECT NUMBER:
ND155013E

SCALE:
AS NOTED

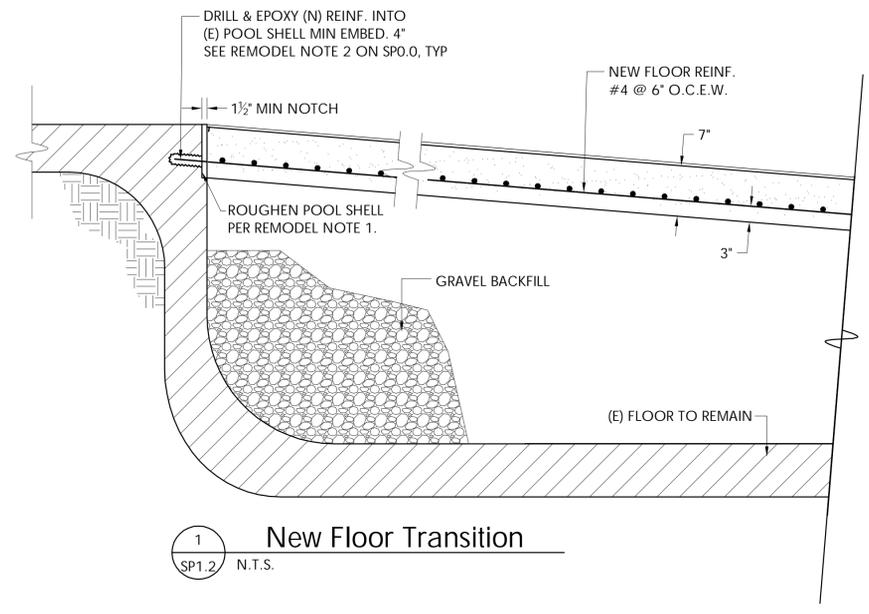
DATE:
02/24/15

DRAWN BY:
E. NUÑEZ

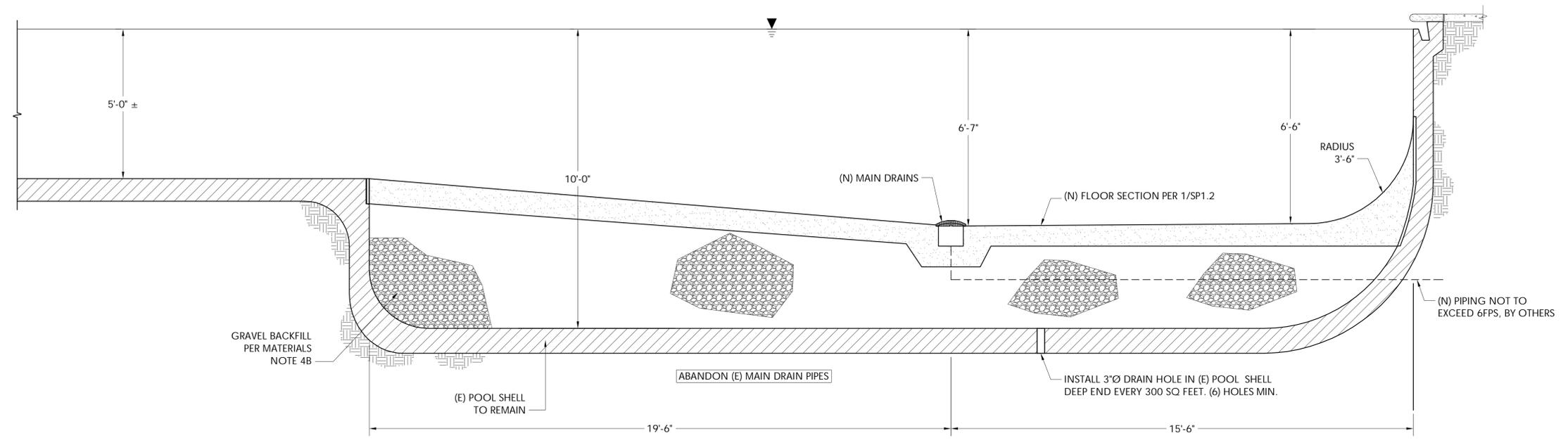
DESIGNED BY:
N. SMITH

SP1.1

N:\Projects\2015\ND155013E\Working Files\Diagrams-Drawings-Figures\ND155013E-Cabrillo Park-CAD\ND155013E-Cabrillo Park-PoolRemodel.dwg March 03/2015 4:35 PM By:Brown, Dwayne



1 New Floor Transition
SP1.2 N.T.S.



2 New Floor Section
SP1.2 SCALE: 1/2" = 1'-0"



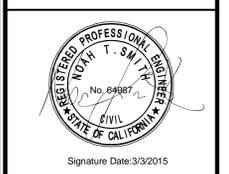
**NEIL O. ANDERSON
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Pool Section & Detail

CABRILLO PARK SWIMMING POOL
1648 65TH AVENUE
SACRAMENTO, CALIFORNIA

DATE	DESCRIPTION	APPR
1		
2		
3		
4		
5		
6		
7		
8		



Signature Date: 3/3/2015

PROJECT NUMBER:
ND155013E

SCALE:
AS NOTED

DATE:
02/24/15

DRAWN BY:
E. NUÑEZ

DESIGNED BY:
N. SMITH

SP1.2