Peralta Community College District

Project Manual for:

Bid No. 14-15/20

Merritt College Science Building Site Paving
Project Number: 2353

Located at:
Merritt College 12500 Campus Drive, Oakland, CA 94619
February 24, 2015

Peralta Community College District
Department of General Services
Gary Banks, Project Manager
(510) 587-7892

JK Architecture
1161 Blocker Drive, Suite 120
Auburn, California 95603

Bid No.: 14-15/20
Advertisement Date: 2/24/15 & 3/3/15
Bid Date: 3/20/15
**Merritt College Science Building Site Paving**

**DOCUMENT 00 0110**

## TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Division</th>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>00 01 01</td>
<td>Title Page</td>
</tr>
<tr>
<td></td>
<td>00 01 10</td>
<td>Table of Contents</td>
</tr>
<tr>
<td></td>
<td>00 01 15</td>
<td>Drawing List</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>BIDDING REQUIREMENTS</strong></td>
</tr>
<tr>
<td></td>
<td>00 11 13</td>
<td>Notice Inviting Bids</td>
</tr>
<tr>
<td></td>
<td>00 21 13</td>
<td>Instructions to Bidders</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>BID FORMS AND BID SUBMITTALS</strong></td>
</tr>
<tr>
<td></td>
<td>00 41 13</td>
<td>Bid Form</td>
</tr>
<tr>
<td></td>
<td>00 43 13</td>
<td>Bond Accompanying Bid</td>
</tr>
<tr>
<td></td>
<td>00 43 14</td>
<td>Bidder Registration Form</td>
</tr>
<tr>
<td></td>
<td>00 43 30</td>
<td>Subcontractors List</td>
</tr>
<tr>
<td></td>
<td>00 45 13</td>
<td>Statement of Qualifications</td>
</tr>
<tr>
<td></td>
<td>00 45 19</td>
<td>Non-Collusion Affidavit</td>
</tr>
<tr>
<td></td>
<td>00 45 46</td>
<td>Bidder Certifications</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>CONTRACT FORMS</strong></td>
</tr>
<tr>
<td></td>
<td>00 51 00</td>
<td>Notice of Award</td>
</tr>
<tr>
<td></td>
<td>00 52 00</td>
<td>Agreement</td>
</tr>
<tr>
<td></td>
<td>00 61 13.13</td>
<td>Construction Performance Bond</td>
</tr>
<tr>
<td></td>
<td>00 61 13.16</td>
<td>Construction Labor and Material Payment Bond</td>
</tr>
<tr>
<td></td>
<td>00 62 90</td>
<td>Escrow Agreement for Security Deposits in Lieu of Retention</td>
</tr>
<tr>
<td></td>
<td>00 63 25</td>
<td>Substitution Request Form</td>
</tr>
<tr>
<td></td>
<td>00 65 00</td>
<td>Release of Claims</td>
</tr>
<tr>
<td></td>
<td>00 65 36</td>
<td>Guaranty</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>CONDITIONS OF THE CONTRACT</strong></td>
</tr>
<tr>
<td></td>
<td>00 72 00</td>
<td>General Conditions</td>
</tr>
<tr>
<td></td>
<td>00 73 00</td>
<td>Labor Compliance Program</td>
</tr>
<tr>
<td></td>
<td>00 7316</td>
<td>Supplementary Conditions</td>
</tr>
<tr>
<td></td>
<td>00 73 39</td>
<td>Small Local Business Enterprise</td>
</tr>
<tr>
<td></td>
<td>00 73 80</td>
<td>Apprenticeship Program</td>
</tr>
<tr>
<td></td>
<td>00 82 50</td>
<td>Project Labor Agreement</td>
</tr>
<tr>
<td></td>
<td>00 91 13</td>
<td>Addenda</td>
</tr>
<tr>
<td>Division</td>
<td>Section</td>
<td>Title</td>
</tr>
<tr>
<td>----------</td>
<td>---------</td>
<td>------------------------------------------------------------</td>
</tr>
<tr>
<td>DIVISION 01 - GENERAL REQUIREMENTS</td>
<td>01 11 00</td>
<td>Summary of the Work</td>
</tr>
<tr>
<td>DIVISION 01 - GENERAL REQUIREMENTS</td>
<td>01 20 00</td>
<td>Measurement and Payment</td>
</tr>
<tr>
<td>DIVISION 01 - GENERAL REQUIREMENTS</td>
<td>01 26 00</td>
<td>Modification Procedures</td>
</tr>
<tr>
<td>DIVISION 01 - GENERAL REQUIREMENTS</td>
<td>01 31 19</td>
<td>Project Meetings</td>
</tr>
<tr>
<td>DIVISION 01 - GENERAL REQUIREMENTS</td>
<td>01 32 30</td>
<td>Progress Schedules and Submittals</td>
</tr>
<tr>
<td>DIVISION 01 - GENERAL REQUIREMENTS</td>
<td>01 33 00</td>
<td>Submittals</td>
</tr>
<tr>
<td>DIVISION 01 - GENERAL REQUIREMENTS</td>
<td>01 35 44</td>
<td>LEED Requirements</td>
</tr>
<tr>
<td>DIVISION 01 - GENERAL REQUIREMENTS</td>
<td>01 41 00</td>
<td>Regulatory Requirements</td>
</tr>
<tr>
<td>DIVISION 01 - GENERAL REQUIREMENTS</td>
<td>01 42 00</td>
<td>References and Definitions</td>
</tr>
<tr>
<td>DIVISION 01 - GENERAL REQUIREMENTS</td>
<td>01 50 00</td>
<td>Temp Facilities and Controls</td>
</tr>
<tr>
<td>DIVISION 01 - GENERAL REQUIREMENTS</td>
<td>01 57 02</td>
<td>Storm Water Pollution Prevention</td>
</tr>
<tr>
<td>DIVISION 01 - GENERAL REQUIREMENTS</td>
<td>01 77 00</td>
<td>Commissioning and Contract Closeout</td>
</tr>
<tr>
<td>DIVISION 01 - GENERAL REQUIREMENTS</td>
<td>01 81 13</td>
<td>Environmentally Sustainable Procurement Construction</td>
</tr>
</tbody>
</table>

| DIVISION 05 – 32 TECHNICAL SPECIFICATIONS | 05 50 00 | Metal Fabrications                                         |
| DIVISION 05 – 32 TECHNICAL SPECIFICATIONS | 26 05 26 | Grounding and Bonding                                      |
| DIVISION 05 – 32 TECHNICAL SPECIFICATIONS | 26 05 31 | Conduit                                                    |
| DIVISION 05 – 32 TECHNICAL SPECIFICATIONS | 26 05 43 | Underground Ducts and Structures                           |
| DIVISION 05 – 32 TECHNICAL SPECIFICATIONS | 32 12 16 | Asphalt Paving                                             |
| DIVISION 05 – 32 TECHNICAL SPECIFICATIONS | 32 13 13 | Concrete Paving - 1                                         |
| DIVISION 05 – 32 TECHNICAL SPECIFICATIONS | 32 17 23 | Pavement Markings                                          |

END OF DOCUMENT
Merritt College Science Building Site Paving

DOCUMENT 00 01 15

LIST OF DRAWINGS

G0.2.1  CAMPUS PLAN
C2.1  DEMOLITION PLAN
C3.1  HORIZONTAL CONTROL PLAN
C4.1  GRADING PLAN
C4.2  DEMOLITION, HORIZONTAL CONTROL & GRADING PLAN
C5.1  STORM DRAIN & SANITARY SEWER PLAN
C6.1  DOMESTIC WATER PLAN
C7.1  CIVIL DETAILS
A1.0  EXTERIOR EGRESS PLAN
A1.1  ENLARGED SITE PLAN – WEST
A1.2  ENLARGED SITE PLAN – NORTH & SOUTH
A1.3  ENLARGED SITE PLAN – EAST
A1.5  SITE DETAILS
ED1.0.1  SITE LIGHTING DEMOLITION PLAN
E1.0.1  SITE LIGHTING PLAN

END OF DOCUMENT
1.01 Notice Inviting Bids: Owner will receive sealed Bids at Peralta Community College District, Purchasing Department, 501 5th Avenue, Oakland, CA 94606 until 2 p.m. on March 20, 2015 for the following public work:

Peralta Community College District
Merritt College Science Building Site Paving
12500 Campus Drive, Oakland, CA 94619

1.02 Project Description: The Merritt College Science Building Site Paving project includes, without limitation, site paving and improvements as shown on the drawings and specifications. Contract Documents fully describe the work per Construction Documents prepared by JK Architecture.

The Merritt College Science Building Site Paving project shall be Substantially Completed within 66 Calendar days from the date when Contract Time commences to run.

Procurement of Bidding Documents: Bidding Documents contain the full description of the Work. Bidders may obtain Bidding Documents from

(Available for purchase)
ARC Northern California
1700 Jefferson Street,
Oakland, CA 94612
Tel. (510) 287-5485 Fax (510) 444-1264
www.e-arc.com
Email: oakland@e-arc.com

Note: The Bid and Contract Documents are available at ARC Northern California for non-refundable payment of the cost of reprographics and shipping per set. Payment shall be made to ARC Northern California.

(Available for viewing)

Department of General Services
Plan Room
Peralta Community College District
333 East 8th Street, Oakland, CA 94606

A copy of Contract Documents may be obtained online through the Peralta Website.

Website: www.peralta.edu
Under “Quick Links”, click “Business Opportunities” to download the bid packet

The following plan room services have received sets of Bidding Documents for the Work contemplated herein:

Builders Exchange of Alameda
3055 Alvarado Street
San Leandro, CA 94577
Tel. 510-483-8880 Fax 510-352-1509
Email: beac@beac.com
1.03 **Bid shall be received** at 501 5th Avenue. For information pertaining to the Bidding Documents, please contact **John Hiebert**, District Buyer.

   a. **Bid shall be received and reviewed at:**

   Peralta Community College District  
Purchasing Department  
Attn: **John Hiebert**  
501 5th Avenue  
Oakland, CA 94606  
(510) 466-7217

1.04 **Instructions:** Bidders shall refer to Document 00 2000 Instructions to Bidders for required documents and items to be submitted in a sealed envelope, at 501 5th Avenue no later than the time and date set forth in Paragraph 1 above.

1.05 **Mandatory Pre-Bid Site Visit:** PCCD will conduct a Mandatory Pre-Bid Conference and Site Visit at **1:30 PM** on **March 3, 2015** in the conference room L132 of the Learning Center in Building L, Merritt College, 12500 Campus Drive, Oakland, CA 94619. The Pre-Bid Conference and Site Visit will last approximately two hours.

1.06 **Bid Preparation Cost:** Bidders are solely responsible for the cost of preparing their Bids.

1.07 **Reservation of Rights:** Owner specifically reserves the right, in its sole discretion, to reject any or all Bids, to re-bid, or to waive inconsequential defects in bidding not involving time, price or quality of the work. Owner may reject any and all Bids and waive any minor irregularities in the Bids.

**ARTICLE 2 – LEGAL REQUIREMENTS**

2.01 **Required Contractor’s License(s):** A California “A” or “B” contractor’s license is required to bid this contract. Joint ventures must secure a joint venture license prior to award of this contract.

2.02 **SB 854 now requires any contractor or subcontractor bidding on a public works project to register with the Department of Industrial Relations (“DIR”).**

2.03 **Substitution of Securities:** Owner will permit the successful bidder to substitute securities for any retention monies withheld to ensure performance of the contract, as set forth in Document 00 6290 Escrow Agreement For Security Deposits In Lieu Of Retention and incorporated herein in full by this reference, in accordance with Section 22300 of the California Public Contract Code.

2.04 **Prevailing Wage Laws:** The successful Bidder must comply with all prevailing wage laws applicable to the Project, and related requirements contained in the Contract Documents. Copies of the general prevailing rates of per diem wages for each craft, classification, or type of worker needed to execute the Contract, as determined by Director of the State of California Department of Industrial Relations.

2.05 **Project Labor Agreement:** The Peralta Community College District has entered into a Project Labor Agreement (PLA) for all its Public Works construction projects, which requires that the successful General Contractor, and its field Subcontractors to sign the applicable Letter of Assent (LOA). The complete text including the terms and conditions, and the LOA, are included in the bid package for review by all Contractors bidding on this project. Contractors contemplating bidding on this project are strongly encouraged to review the complete PLA documents, but should at minimum be aware of the following:
No work stoppages, strikes, sympathy strikes, slowdowns or lockouts are allowed during the execution of the work.

There are provisions for alternative dispute resolution, depending on affected crafts.

Based on a formula and certain basic requirements, a Contractor may use up to five (5) "core" workers, but all workers must be dispatched through the applicable union halls.

There are goals for the utilization of local workers, utilizing the normal hiring hall procedures for dispatch.

A Contractor is not required to become signatory to a union to work on a project covered by the PLA, but is required to sign a Letter of Assent (LOA) agreeing to work under the terms of the PLA, on a project by project basis. Workers are not required to join a union but must be dispatched through a union hiring hall and must pay union initiation fees and dues when working on a project covered by the PLA.
Merritt College Science Building Site Paving

DOCUMENT 00 2113

INSTRUCTIONS TO BIDDERS

Bids are requested by Owner, for a general construction contract, or work described in general, as set forth in Document 00 1113 (Notice Inviting Bids), and the following additional terms.

ARTICLE 1 - PROCEDURES FOR SUBMISSION OF BIDS

1.01 Required Pre-Bid Conference and Site Visit
   A. Owner will conduct Pre-Bid Conference and Site Visit at the date, time and location indicated in Document 00 1113 (Notice Inviting Bids), to consider such matters as Bidders may request and perform a Site Visit immediately following, at the Site. Bidders must attend Pre-Bid Conference and Site Visit and sign an attendance roster as a condition to bidding.
   B. The Site Visit may be the Bidders’ only opportunity to investigate conditions at the Site. Other Pre-Bid Site Visits may be scheduled at Owner’s sole discretion, depending on staff availability.

1.02 Required Pre-Bid Investigations
   A. Prior to submission of Bid, Bidder must conduct a careful examination of Bidding Documents and understand the nature, extent, and location of Work to be performed. Refer to Document 00 7200 (General Conditions) on required pre-bid investigations.
   B. Bidders may examine any available existing conditions information (e.g., record documents, specifications, studies, drawings of previous work), as well as applicable environmental assessment information (if any) regarding the Project, at the District plan room, 333 East 8th Street. Contact Gary Banks, (510) 587-7892 to schedule an appointment.

1.03 Bidder Questions and Answers
   A. Bidders must direct all questions about the meaning or intent of Bidding Documents to Owner in writing, via email to John Hiebert (jhiebert@peralta.edu). Interpretations or clarifications considered necessary by Owner in response to such questions will be issued by written Addenda mailed, faxed, or delivered to all parties recorded by Owner as having received Bidding Documents. Owner may not answer questions received less than ten Days prior to the date for opening Bids.
   B. Only questions answered by formal written Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect, and Bidders shall not rely on oral statements.

1.04 Addenda
   A. Addenda may also be issued to modify the Bidding Documents as deemed advisable by Owner. Addenda shall be acknowledged by number in Document 00 4113 (Bid Form) and shall be part of the Contract Documents. A complete listing of Addenda may be secured from Owner.

ARTICLE 2 - RECEIPT OF BIDS:

2.01 Date and Time
   A. Sealed Bids will be received by the Owner until the date and time indicated in Document 00 1113 (Notice Inviting Bids). All Bid envelopes will be time-stamped to reflect their submittal time. Owner shall reject all Bids received after the specified time and will return such Bids to Bidders unopened. Bidders must submit Bids in accordance with this Document 00 2113.
2.02 Bid Submission:
A. Owner will receive Bids in opaque sealed 10 inch x 13 inch envelopes, containing the required items described herein.
B. Bidders should mark their Bid envelopes using the name, address, identifying information and contract number, indicated in Document 00 1113 (Notice Inviting Bids).

2.03 Required Contents of “Envelope” – Bid Submittals”
A. Document 00 4113 (Bid Form). Bidders must submit Bids on Document 00 4113 (Bid Form) in accordance with the provisions of Document 00 4113. Bidders must complete all Bid items and supply all information required by Bid documents and specifications.
B. Document 00 4313 (Bond Accompanying Bid). Bidders must submit Document 00 4313 (Bond Accompanying Bid) accompanied by a cashier’s check, certified check (certified without qualification and drawn on a solvent bank of the State of California or a National Bank doing business in the State of California) or completed form of Document 00 4313 of not less than 10% of the base Bid, payable to Owner and completed in accordance with the provisions of Document 00 4313.
C. Document 00 4314 (Bidder Registration Form). Bidders must submit Document 00 4314 (Bidder Registration and Experience Form), completed in accordance with the provisions of Document 00 4314.
D. Document 00 4330 (Subcontractor List). Bidders must submit Document 00 4330 (Subcontractors List) completed in accordance with the provisions of Document 00 4330. The Subcontractors List must include the names of all subcontractors for those subcontractors who will perform any portion of work, including labor, rendering of service, or specially fabricating and installing a portion of the work or improvement according to detailed drawings contained in the plans and specifications, in excess of one half of one percent (0.5%) of the total Bid amount. Any violation of this requirement may result in a Bid being deemed non-responsive and not being considered.
E. Document 00 4513 (Statement of Qualifications). Bidders shall complete the entire Statement of Qualification Questionnaire and submit it in accordance with Document 00 2000 (Instructions to Bidders) and Document 00 4513 (Statement of Qualifications). Failure to complete the questionnaire or inclusion of any false statement(s) shall be ground for immediate disqualification.
F. Document 00 4519 (Non-Collusion Affidavit). Bidders must submit Document 00 4519 (Non-Collusion Affidavit) completed in accordance with the provisions of Document 00 4519.
G. Document 00 4546 (Bidder Certifications). Bidders must submit Document 00 4546 (Bidder Certification) completed in accordance with the provisions of Document 00 4546.

ARTICLE 3 - BID OPENING AND EVALUATION
3.01 Determination of Apparent Low Bidder
A. Owner will open each Bidders’ Envelope at the time and place indicated in Document 00 1113 (Notice Inviting Bids), initially evaluate them for responsiveness, and determine an Apparent Low Bidder as specified herein.
B. Apparent Low Bid will be determined solely on the total amount of all Bid items based on terms contained in Document 00 1113 (Notice Inviting Bids) and Document 00 4113 (Bid Form). All Bidders are required to submit Bids on all Bid items (including any alternates).
C. If Apparent Low Bidder is determined to be non-responsive or non-responsible, then Owner may proceed to the next Apparent Low Bidder’s Bid pursuant to any procedures determined in its reasonable discretion, and proceed for all purposes as if this Apparent Low Bidder were the original Apparent Low Bidder.
3.02 Evaluation of Bids

A. Bids must be full, complete, clearly written and using the required forms. Bidders shall make any change in the Bid by crossing out the original entry, entering and initialing the new entry. Bidder’s failure to submit all required documents strictly as required entitles Owner to reject the Bid as non-responsive. All Bidders must submit Bids containing each of the fully executed documents supplied in this Project Manual.

B. In evaluating Bids, Owner will consider Bidders’ qualifications, whether or not the Bids comply with the prescribed requirements, unit prices, and other data, as may be requested in Document 00 4113 (Bid Form) or prior to the Notice of Award.

C. Owner may conduct reasonable investigations and reference checks of Bidder and other persons and organizations as Owner deems necessary to assist in the evaluation of any Bid and to establish Bidder’s responsibility, qualifications, financial ability and ability to perform the Work in accordance with the Contract Documents to Owner’s satisfaction within the prescribed time. Submission of a Bid constitutes Bidder’s consent to the foregoing.

D. Owner shall have the right to consider information provided by sources other than Bidder. Owner shall also have the right to communicate directly with Bidder’s surety regarding Bidder’s bonds.

E. Discrepancies between the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. Discrepancies between written words and figures will be resolved in favor of the words.

F. Bids shall be deemed to include the written responses of the Bidder to any questions or requests for information of Owner made as part of Bid evaluation process after submission of Bid.

3.03 Reservation of Rights

A. Owner reserves the right to reject any or all nonconforming, non-responsive, unbalanced, or conditional Bids, and to reject the Bid of any Bidder as non-responsive as a result of any error or omission in the Bid, or if Owner believes that it would not be in the best interest of Project to make an award to that Bidder, whether because the Bid is not responsive or the Bidder is unqualified or of doubtful financial ability or fails to meet any other pertinent standard or criteria established by Owner. For purposes of this paragraph, an “unbalanced Bid” is one having nominal prices for some Bid items and enhanced prices for other Bid items.

B. Owner may retain Bid securities and Bid bonds of other than the Apparent Low Bidder for a period of 90 Days after award or full execution of the Contract, whichever first occurs.

C. Owner may reject any or all Bids and waive any informalities or minor irregularities in the Bids. Owner also reserves the right, in its discretion, to reject any or all Bids and to re-Bid the Project.

ARTICLE 4 - MANDATORY BID PROTEST PROCEDURES:

4.01 Submission of Written Bid Protest

A. Any Bid protest in connection with the construction contract or work described in general in Document 00 1113 (Notice Inviting Bids) must be submitted in writing to Purchasing Department address listed below, before 2:00 P.M. of the fifth Business Day following opening of the Bidders’ envelopes.

Peralta Community College District
Purchasing Department
Attn: John Hiebert
501 5th Avenue
Oakland, CA 94606
(510) 466-7217
B. The initial protest document must contain a complete statement of the basis for the protest.
C. The protest must refer to the specific portion of the document that forms the basis for the protest.
D. The protest must include the name, address, and telephone number of the person representing the protesting party.
E. Only Bidders who the Owner otherwise determines are responsive and responsible are eligible to protest a Bid; protests from any other Bidder will not be considered. In order to determine whether a protesting Bidder is responsive and responsible, Owner may evaluate all information contained in any protesting Bidder's Bid, and conduct the same investigation and evaluation as Owner is entitled to take regarding an Apparent Low Bidder.
F. The party filing the protest must concurrently transmit a copy of the initial protest document and any attached documentation to all other parties with a direct financial interest that may be adversely affected by the outcome of the protest. Such parties shall include all other Bidders who appear to have a reasonable prospect of receiving an award depending upon the outcome of the protest.

4.02 Exclusive Remedy
A. The procedure and time limits set forth in this paragraph are mandatory and are Bidder's sole and exclusive remedy in the event of Bid protest. Bidder's failure to comply with these procedures shall constitute a waiver of any right to further pursue the Bid protest, including filing a Government Code Claim or legal proceedings. A Bidder may not rely on a protest submitted by another Bidder, but must timely pursue its own protest.

ARTICLE 5 - AWARD AND EXECUTION OF CONTRACT
5.01 Notice of Award and Submittal of Executed Contract Documents
A. If Contract is to be awarded, it will be awarded to the lowest responsible responsive Bidder. Owner will issue Document 00 5100 Notice of Award. Such Award, if made, will be made within sixty (60) days after the opening of the Bid Proposals.
B. Successful Bidder must execute and submit to Owner the “Required Contract Documents and Proof of Insurance” set forth below, by 5:00 p.m. of the 20th Day following the Notice of Award.

5.02 Required Contract Documents and Proof of Insurance
A. Document 00 5200 (Agreement), fully executed by successful Bidder. Submit four originals, each bearing an original signature and initials on each page.
B. Document 00 6113.13 (Construction Performance Bond), fully executed by successful Bidder and surety, in the amount set forth in Document 00 6113.13. Submit three originals.
C. Document 00 6113.16 (Construction Labor and Material Payment Bond), fully executed by successful Bidder and surety, in the amount set forth in Document 00 6113.16. Submit three originals.
D. Document 00 6536 (Guaranty), fully executed by successful Bidder.
E. Insurance certificates and endorsements required by Document 00 7316 (Supplementary Conditions—Insurance): Submit one original set.
5.03 Failure to Execute and Deliver Documents:

A. If Bidder to whom Contract is awarded, within the period described in this Document 00 2113, fails or neglects to execute and deliver all required Contract Documents and file all required bonds, insurance certificates, and other documents, Owner may, in its sole discretion, rescind the award, recover on Bidder’s surety bond, or deposit Bidder’s cashier’s check or certified check for collection, and retain the proceeds thereof as liquidated damages for Bidder’s failure to enter into the Contract Documents. Bidder agrees that calculating the damages Owner may suffer as a result of Bidder’s failure to execute and deliver all required Contract Documents would be extremely difficult and impractical and that the amount of Bidder’s required Bid security shall be the agreed and presumed amount of Owner’s damages.

B. Upon such failure to timely deliver all required Contract Documents as set forth herein, Owner may determine the next Apparent Low Bidder and proceed accordingly. Such Award, if made, will be made within sixty (60) days after the opening of the Bid Proposals.

ARTICLE 6 - GENERAL CONDITIONS AND REQUIREMENTS

6.01 Modification of Commencement of Work:

A. Owner expressly reserves the right to modify the date for the Commencement of Work under the Contract and to independently perform and complete work related to Project. Owner accepts no responsibility to Contractor for any delays attributed to its need to complete independent work at the Site.

B. Owner shall have the right to communicate directly with Apparent Low Bidder’s proposed performance bond surety, to confirm the performance bond. Owner may elect to extend the time to receive faithful performance and labor and material payment bonds.

6.02 Conformed Project Manual:

A. Following Award of Contract, Owner may prepare a conformed Project Manual reflecting Addenda issued during bidding, which will, failing objection, constitute the approved Project Manual.

6.03 Payment Bond:

A. If the Project described in Document 00 1113 (Notice Inviting Bids) involves an expenditure in excess of twenty-five thousand dollars ($25,000), the successful Bidder must file a payment bond with and approved by Owner prior to entering upon the performance of the Work, in accordance with Civil Code § 3247.

6.04 Wage Rates:

A. Copies of the general prevailing rates of per diem wages for each craft, classification, or type of worker needed to execute the Contract, as determined by Director of the State of California Department of Industrial Relations.

6.05 Withdrawal of Bids:

A. Bidders may withdraw their Bids at any time prior to the Bid opening time fixed in this Document 00 2113, only by written request for the withdrawal of Bid filed with Owner at Purchasing Department address listed below Bidder or its duly authorized representative shall execute request to withdraw Bid.

Peralta Community College District
Purchasing Department
Attn: John Hiebert
501 5th Avenue
Oakland, CA 94606
(510) 466-7217
6.06 Ineligible Contractors and Subcontractors:
A. Owner shall not accept a Bid from a Bidder who is ineligible to bid or work on, or be awarded, a public works project pursuant to California Labor Code section 1777.1 or 1777.7. Bidders and the Contractor who is awarded the project contract shall not utilize, or allow work by, any subcontractor who is ineligible to bid or work on, or be awarded, a public works project pursuant to California Labor Code Section 1777.1 or 1777.7. (See California Public Contract Code Section 6109.) The California Division of Labor Standards Enforcement publishes a list of debarred contractors and subcontractors on the Internet at www.dir.ca.gov/DLSE/debar.html.

6.07 Substitutions:
A. Bidders must base their Bids on products and systems specified in Contract Documents or listed by name in Addenda. Owner will consider substitution requests only for “or equal items.” Bidders wanting to use “or equal” item(s) may submit Document 00 6325 (Substitution Request Form) no later than 35 Days after Notice of Award. As a limitation on Bidder’s privilege to request substitution of “or equal” items, Owner has found that certain items are designated as Owner standards and certain items are designated to match existing items in use on a particular public improvement either completed or in the course of completion or are available from one source. As to such items, Owner will not permit substitution. Such items are described in the Bidding Documents.

6.08 Definitions:
A. All abbreviations and definitions of terms used in this Document 00 2113 are set forth in Document 00 7200 (General Conditions) and Section 01 4200 (References and Definitions).

END OF DOCUMENT
Merritt College Science Building Site Paving

DOCUMENT 00 4113

BID FORM

TO THE BOARD OF TRUSTEES OF THE PERALTA COMMUNITY COLLEGE DISTRICT

THIS BID IS SUBMITTED BY:

____________________________________________________________________________________

(Firm/Company Name)

Re: Merritt College Science Building Site Paving at 12500 Campus Drive, Oakland, CA 94619,
Project No. 2353, Bid No. 14-15/20

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an agreement
   with THE PERALTA COMMUNITY COLLEGE DISTRICT in the form included in the Contract
   Documents, Document 00 5200 (Agreement), to perform and furnish all Work as specified or
   indicated in the Contract Documents for the Contract Sum and within the Contract Time indicated
   in this Bid and in accordance with all other terms and conditions of the Contract Documents.

2. Bidder accepts all of the terms and conditions of the Contract Documents, Document 00 1113
   (Notice Inviting Bids), and Document 00 2113 (Instructions to Bidders), including, without
   limitation, those dealing with the disposition of Bid Security. This Bid will remain subject to
   acceptance for 60 Days after the day of Bid opening, unless there is a bid protest, then 90 days
   after the day of bid opening.

3. In submitting this Bid, Bidder represents that Bidder has examined all of the Contract Documents,
   performed all necessary Pre-Bid investigations, received the Pre-Bid conference minutes (if any),
   and received the following Addenda:

<table>
<thead>
<tr>
<th>Addendum Number</th>
<th>ADDENDUM DATE</th>
<th>Signature of Bidder</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. Based on the foregoing, Bidder proposes and agrees to fully perform the Work within the time
   stated and in strict accordance with the Contract Documents for the following sums of money
   listed in the following Schedule of Bid Prices:
SCHEDULE OF BID PRICES

All Bid items, including lump sums and unit prices, must be filled in completely. Bid items are described in Section 01 1100 (Summary of Work). Quote in figures only, unless words are specifically requested.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>ESTIMATED QUANTITY</th>
<th>UNIT</th>
<th>UNIT PRICE</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Allowance for unforeseen conditions</td>
<td>Allowance</td>
<td></td>
<td>$45,000</td>
<td>$45,000</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>6.</td>
<td></td>
<td></td>
<td></td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>7.</td>
<td>All Work of Contract Documents other than Work separately provided for under other Bid items</td>
<td></td>
<td></td>
<td>$</td>
<td>$</td>
</tr>
</tbody>
</table>

TOTAL

TOTAL BID PRICE $                      

Total Bid Price: ________________________________________________________ (Words)

5. Subcontractors for work included in all Bid items are listed on Document 00 4330 (Subcontractors List) submitted herewith.

6. The undersigned Bidder understands that Owner reserves the right to reject this Bid.

7. If written notice of the acceptance of this Bid, hereinafter referred to as Notice of Award, is mailed or delivered to the undersigned Bidder within the time described in Paragraph 2 of this Document 00 4113 or at any other time thereafter before it is withdrawn, the undersigned Bidder will execute and deliver the documents required by Document 00 2113 (Instructions to Bidders) within the times specified therein.

8. Notice of Award or request for additional information may be addressed to the undersigned Bidder at the address set forth below.

9. The undersigned Bidder herewith encloses cash, a cashier’s check, or certified check of or on a responsible bank in the United States, or a corporate surety bond furnished by a surety authorized to do a surety business in the State of California, in form specified in Document 00 2113 (Instructions to Bidders), in the amount of ten percent (10%) of the Total Bid Price and made payable to THE PERALTA COMMUNITY COLLEGE DISTRICT.

10. The undersigned Bidder agrees to commence Work under the Contract Documents on the date established in Document 00 7200 (General Conditions) and to complete all Work within the time specified in Document 00 5200 (Agreement).
11. The undersigned Bidder agrees that, in accordance with Document 00 7200 (General Conditions), liquidated damages for failure to complete all Work in the Contract within the time specified in Document 00 5200 (Agreement) shall be as set forth in Document 00 5200.

12. The names of all persons interested in the foregoing Bid as principals are:

**IMPORTANT NOTICE:** If Bidder or other interested person is a corporation, give the legal name of corporation, state where incorporated, and names of president and secretary thereof; if a partnership, give name of the firm and names of all individual co-partners composing the firm; if Bidder or other interested person is an individual, give first and last names in full.

**NAME OF BIDDER:** ______________________________________________________

licensed in accordance with an act for the registration of Contractors, and with license number:_____________________________________ Expiration: __________________.

__________________________________________

(Principal)

__________________________________________

(Principal)

__________________________________________

(Principal)

I certify (or declare) under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

__________________________________________

(Signature of Bidder)

**NOTE:** If Bidder is a corporation, set forth the legal name of the corporation together with the signature of the officer or officers authorized to sign contracts on behalf of the corporation. If Bidder is a partnership, set forth the name of the firm together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership.

Business Address:

__________________________________________

__________________________________________

__________________________________________

Contractor's Representative(s):

__________________________________________

(Name/Title)

__________________________________________

(Name/Title)

__________________________________________

(Name/Title)
<table>
<thead>
<tr>
<th>Officers Authorized to Sign Contracts</th>
<th>(Name/Title)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(Name/Title)</td>
</tr>
<tr>
<td></td>
<td>(Name/Title)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Telephone Number(s):</th>
<th>(Area Code)</th>
<th>(Number)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(Area Code)</td>
<td>(Number)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fax Number(s):</th>
<th>(Area Code)</th>
<th>(Number)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(Area Code)</td>
<td>(Number)</td>
</tr>
</tbody>
</table>

Date of Bid: ________________________________

END OF DOCUMENT
Merritt College Science Building Site Paving

DOCUMENT 00 4313

BOND ACCOMPANYING BID

KNOW ALL BY THESE PRESENTS:

That the undersigned

| (Name of Contractor) |

as Principal and the undersigned as Surety are held and firmly bound unto Owner, the Peralta Community College District, as obligee, in the penal sum of (Dollar Amount In Words)

| Dollars($___________) |

lawful money of the United States of America being at least ten percent (10%) of the aggregate amount of said Principal _____________________________’s base Bid, for the payment of which, well and truly to be made, we bind ourselves, our successors, executors, administrators, and assigns, jointly and severally, firmly by these presents.

WHEREAS, the said Principal is submitting a Bid for Owner Project No. 2353, Bid No. 14-15/20 Merritt College Science Building Site Paving, 12500 Campus Drive, Oakland, CA 94619

THE CONDITION OF THIS OBLIGATION IS SUCH that if the Bid submitted by the said Principal be accepted and the Contract be awarded to said Principal and said Principal shall within the required periods enter into the Contract so awarded and provide the required Construction Performance Bond, Construction Labor and Material Payment Bond, insurance certificates, Guarantee, and all other endorsements, forms, and documents required under Document 00 2000 (Instructions to Bidders), then this obligation shall be void, otherwise to remain in full force and effect.

IN WITNESS WHEREOF, the above bounden parties have executed this instrument this _____ day of ___________________________, 20___.

| (Month) |

(Corporate Seal)  By ________________________________

Principal

(Corporate Seal)  By ________________________________

Surety

(Corporate Seal)  By ________________________________

Attorney in Fact

END OF DOCUMENT
In order to register to undertake work for Owner, Bidder must:

1) Fill out this registration form completely; do not leave blanks.

2) Provide certificates of insurance or a letter evidencing coverage complying with Document 00 4513 (Statement of Qualifications).

INDEPENDENT CONTRACTOR REGISTRATION

Contractor’s License # ____________________________

Date: ________________________ Fed I.D. # ____________________________

Full Corporate Name of Company: ____________________________

Street Address: ____________________________________________

________________________________________________________________

Mailing Address: ____________________________________________

________________________________________________________________

Phone: ____________________________ Fax: ____________________________

Name of Principal Contact: ______________________________________

Type of Business: _____ Sole Proprietor _____ Partnership
      _____ Non-Profit 501(c)(3)      _____ Corporation
      _____ other (please explain: ______________________)

INSURANCE

Workers’ Compensation:

Carrier: ____________________________________________

Address: ____________________________________________

Phone and Fax: ____________________________________________

Policy Number: ____________________________________________

General Liability:

Carrier: ____________________________________________

Address: ____________________________________________
Phone and Fax: ________________________________________________________________
Policy Number: ___________________________________________________________________
Policy Limits: $ __________________________________________________________________
A.M. Best Rating: __________________________________________________________________

**Automobile Liability:**

Carrier: _________________________________________________________________________
Address: _________________________________________________________________
Phone and Fax: _____________________________________________________________
Policy Number: __________________________________________________________________
Policy Limits: $ __________________________________________________________________
A.M. Best Rating: __________________________________________________________________

**All-risk Course of Construction (if applicable, as required by Document 00 7316 [Supplementary Conditions – Insurance]):**

Carrier: _________________________________________________________________________
Address: _________________________________________________________________
Phone and Fax: _____________________________________________________________
Policy Number: __________________________________________________________________
Policy Limits: $ __________________________________________________________________
A.M. Best Rating: __________________________________________________________________

**Professional Liability (if applicable, as required by Document 00 7316 [Supplementary Conditions – Insurance]):**

Carrier: _________________________________________________________________________
Address: _________________________________________________________________
Phone and Fax: _____________________________________________________________
Policy Number: __________________________________________________________________
Policy Limits: $ __________________________________________________________________
A.M. Best Rating: __________________________________________________________________

**Pollution Legal Liability Insurance (if applicable, as required by Document 00 7316 [Supplementary Conditions – Insurance]):**

Bidder Registration Form
Merritt College Science Building Site Paving
Carrier: ________________________________
Address: ______________________________
Phone and Fax: _________________________
Policy Number: _________________________
Policy Limits: $ ________________________
A.M. Best Rating: _______________________

BIDDER CERTIFIES, UNDER PENALTY OF PERJURY, THAT THE FOREGOING INFORMATION IS CURRENT AND ACCURATE AND AUTHORIZES OWNER, AND ITS AGENTS AND REPRESENTATIVES TO OBTAIN A CREDIT REPORT AND/OR VERIFY ANY OF THE ABOVE INFORMATION.

_____________________________________
SIGNATURE

_____________________________________
DATE
SAFETY EXPERIENCE

The following statements as to the Bidder’s safety experience are submitted with the Bid, as part thereof, and the Bidder guarantees the truthfulness and accuracy of all information.

1. List Bidder’s interstate Experience Modification Rate for the last three years.

   [20__] _____ [20__] _____ [20__] _____

2. Use Bidder’s last year’s Cal/OSHA 200 log to fill in the following number of injuries and illnesses:

   a. Number of lost workday cases _______________
   b. Number of medical treatment cases _______________
   c. Number of fatalities _______________

3. Employee hours worked last year _______________

4. State the name of Bidder’s safety engineer/manager:

   Attach a resume or outline of this individual’s safety and health qualifications and experience.

   I CERTIFY, UNDER PENALTY OF PERJURY, THAT THE FOREGOING INFORMATION IS CURRENT AND ACCURATE AND I AUTHORIZE OWNER, AND ITS AGENTS AND REPRESENTATIVES TO OBTAIN A CREDIT REPORT AND/OR VERIFY ANY OF THE ABOVE INFORMATION.

   BIDDER:

   By: ____________________________________________
   Signature

   Its: ____________________________________________
   Title

   Date_____________________________________________

END OF DOCUMENT
Bidder submits the following information as to the subcontractors Bidder intends to employ if awarded the Contract.

<table>
<thead>
<tr>
<th>Full Name of Subcontractor and Address of Mill or Shop</th>
<th>Description of Work: Reference To Bid Items</th>
<th>Subcontractor’s License No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Bidder to attach additional sheets if necessary)

END OF DOCUMENT
ARTICLE 1 – GENERAL INFORMATION

1.01 Minimum Bidder Qualifications.

A. Bidders must be duly licensed in accordance with the California Business & Professions Code and have a history of work performance sufficient to meet the requirements of a responsible bidder in the California Public Contract Code Section 1104.

B. Bidders must have three (3) years experience as a continuously operating entity engaged in the performance of similar work.

C. Bidders must demonstrate successful experience with type of work of this Project, to include, within the past year, completed two (2) projects of a similar nature and complexity with a contract dollar amount of at (i.) least 75% of the amount of Bidder’s Bid or (ii.) 125% of such amount in the aggregate.

1.02 Measurement.

A. Bidder’s compliance with the minimum qualification requirements will be measured by Bidder’s experience as an operating entity and also by the experience of the supervisory personnel who will have responsible charge of the various major components of the Work.

B. If Bidder subcontracts portions of the Work, Owner, in its determination of whether the minimum qualification requirements have been met, may consider the qualifications of the Subcontractor’s supervisory personnel.

ARTICLE 2 – REQUIRED CONTENTS OF SOQ SUBMISSION

2.01 Transmittal Letter.

A. The Transmittal Letter shall name the proposed prime contractor, its legal structure (i.e., corporation, partnership, limited partnership, joint venture). If a joint venture or partnership is proposed, Bidder shall identify partner and/or member of the joint venture and their roles and responsibilities.

2.02 Submittals:

A. Completed Questionnaire. Bidder shall include a completed Statement of Qualifications Questionnaire in the form attached to this Document 00 4513 as Attachment “A”.

B. Resumes of Proposed Key Personnel. Bidder shall provide a resume for each named Key Personnel of Bidder, to include as necessary: Years of experience; Education - degrees, schools and years obtained; Professional Registrations; Fluency in English (Yes/No); At least two client references, including contact names, addresses and telephone numbers, and description of projects of a similar nature worked on in the past five years.

C. Audited or Reviewed Financial Statements. Include audited or reviewed financial statements for the three most recently completed fiscal years for Bidder and each member of any proposed consorting or joint venture. Also include audited or reviewed financial statements for the three most recently completed fiscal years for any parent companies) of Bidder and each member of any proposed consortium oriole venture.

D. Surety Letter re: Capability to Provide Required Performance and Payment Bonds. Bidder shall include a letter from a surety duly licensed to do business in the State of California, having a financial rating from A.M. Best Company of A-, VII or better, that the surety has agreed to provide Bidder with the required performance and payment bonds in accordance with the requirements.
set forth in Documents 00 6113.13 (Construction Performance Bond) and 00 6113.16 (Construction Labor and material Payment) each in the penal sum of the Contractor’s bid when submitted. Owner shall have the right to verify with the surety that the surety, based upon the Bid prices, will issue the required bonds under the conditions stated.

E. **Insurer Letter re: Capability to Provide the Required Insurance.** Bidder shall provide a letter from an insurance underwriter, having a financial rating reasonably acceptable to Owner, confirming that the insurer will provide Bidder the required coverages and amounts specified in the Contract Documents.

F. **Description of Human and Physical Resources.** Bidder shall identify, describe, and quantify for itself, the following technical information for the construction work: Description and location of manufacturing facilities, naming products and quantifying production capacity and current demand; Description of field organization(s), naming skills and equipment; Description of safety program quality control procedures, and safety experience; and

G. **License:** Evidence of a valid contractor's license and required licenses of all licensees of persons who are Key Personnel necessary to perform the Work.

H. **Litigation History.** Description of litigation history for the past three years, including names of involved parties, nature of dispute, and disposition.

2.03 **Format.**

A. The SOQ shall be clear and concise to enable management-oriented personnel to make a thorough evaluation and arrive at a sound determination as to whether the SOQ meet Owner's requirement. To this end, the SOQ should be so specific, detailed and complete as to demonstrate clearly and fully that the Bidder has a thorough understanding of and has demonstrated knowledge of the requirements to perform the Work (or applicable portion thereof).

B. Any explanation requested by a Bidder regarding the meaning or interpretation of this Document 00 4513 must be requested in writing and with sufficient time allowed for a reply to reach Bidder before the submission of its SOQ. Oral explanations or instructions will not be binding. Any information provided to any prospective Bidder concerning this Document 00 4513 will be furnished to all prospective Bidders as an Addendum to the Bidding Documents.

STATEMENT OF QUALIFICATION QUESTIONNAIRE FOLLOWS ON NEXT PAGE
ATTACHMENT “A” – Statement of Qualification Questionnaire

Bidders shall complete the entire Statement of Qualification Questionnaire and submit it in accordance with Document 00 2000 (Instructions to Bidders) and Document 00 4513 (Statement of Qualifications). Failure to complete the questionnaire or inclusion of any false statement(s) shall be ground for immediate disqualification.

CONTACT INFORMATION

Company Name: ____________________________________________________________
Owner of Company: _________________________________________________________
Contact Person: _____________________________________________________________
Address: __________________________________________________________________
Phone: ____________________________ Fax: _________________________________

PART A: GENERAL INFORMATION

1. Does Bidder possess a valid and current California Contractor’s license for the work proposed? Yes ___ No ___

2. Does Bidder have a minimum of $1,000,000 liability insurance coverage? Yes ___ No ___

3. Has Bidder’s License been revoked at any time in the last five years? Yes ___ No ___

4. Has Bidder been “default terminated” by an Owner (other than for convenience), or has a Surety completed a contract for Bidder within the last five years? Yes ___ No ___

5. Has Bidder been convicted more than twice for failure to pay prevailing wages in the last three years? Yes ___ No ___

6. Has Bidder attached copies of its reviewed or audited financial statements and accompanying notes for the last three years? Yes ___ No ___

Bidder may be disqualified if any answer to questions 1, 2, or 6 is No.
Bidder may be disqualified if any answer to questions 3, 4, or 5 is Yes.

PART B: SAFETY, PREVAILING WAGE, DISPUTES AND BONDS

(SAFETY)

1. Has Cal/OHSA, Federal OSHA, the EPA or any Air Quality Management Owner cited Bidder in the past five years? Yes ___ No ___ If yes, attach description of each citation.

2. How often does Bidder require documented safety meetings be held for:
   Field Supervisor Weekly _____ Bi-Weekly _____ Monthly _____ Less Than Monthly _____
   Employees Weekly _____ Bi-Weekly _____ Monthly _____ Less Than Monthly _____
   New Hires Weekly _____ Bi-Weekly _____ Monthly _____ Less Than Monthly _____
   Subcontractors Weekly _____ Bi-Weekly _____ Monthly _____ Less Than Monthly _____

3. How often does Bidder conduct documented safety inspections?
   Quarterly _____ Semi-annually _____ Annually _____ Other _____

4. Does Bidder have home office safety representatives who visit/audit the job site?
   Quarterly _____ Semi-annually _____ Annually _____ Other _____

Statement of Qualifications
Merritt College Science Building Site Paving

00 4513 - 3
5. What is Bidder's Interstate Experience Modification Rate? ___________. (A rating in excess of [1] may constitute grounds for disqualification as non-responsible).

(PREVAILING WAGE PROVISIONS)

6. Has Bidder been fined, penalized or otherwise found to have violated any prevailing wage or labor code provision? If yes, attach description of each occurrence.
   Yes _____ No _____

/LICENSE PROVISIONS)

7. Has Bidder changed names or license numbers in the past 5 years? If so, please state reason for change.
   Yes _____ No _____ Reason: ____________________________________________________________
   __________________________________________________________________________________

(DISPUTES)

8. Has Bidder had any claims, litigation, or disputes ending in mediation or arbitration, or termination for cause associated with any project in the past 5 years? If yes, attach description of each instance including details of total claim amount, settlement amount, and Owner’s name and phone number.
   Yes _____ No _____

(BONDING)

9. Bonding Capacity – Provide documentation from Bidder's surety identifying the following:
   Name of bonding company/surety: _____________________________________________________
   Name of Surety Agent: _____________________________________________________________
   Surety Agent address: _____________________________________________________________
   Surety Agent phone number: _______________________________________________________
   Is surety a California-admitted surety? Yes _____ No _____
   Is surety listed in the current edition of the California Department of the Treasury's Listing of approved sureties? Yes _____ No _____
   List surety's A.M. Best Rating: _____________________________________________________
   What is Bidder's total bonding capacity? _____________________________________________
   What percent does Bidder pay for bonds? ___________________________________________
PART C: EXPERIENCE OF PRIME CONTRACTOR

The nature of this Project requires prior similar experience for the firm and the Key Personnel assigned. Summarize similar project experience below and provide the detailed project information requested:

Prime Contractor. List three projects of similar size and scope to the Work of the Contract, completed in the past two (2) years, and indicate who were the superintendent, project manager and scheduler. NOTE: this listing will be used to assess compliance with the stated minimum qualifications in Paragraph 1.01B.

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Construction Cost ($)</th>
<th>Year Completed</th>
<th>Name of Project Superintendent</th>
<th>Name of Project Manager</th>
<th>Name of Project Scheduler</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

List Key Personnel that will be assigned to the Work of the current Project and their experience/training with the projects listed above:

Project Manager: ________________________________________________________________

Project Superintendent: ___________________________________________________________

Project Scheduler: _______________________________________________________________
Recent Projects.

Provide information about three (3) of its most currently completed projects. Names and references must be current and verifiable. this listing will be used to assess compliance with the stated minimum qualifications in Paragraph 1.01B. If a separate sheet is used, it must contain all of the following information:

1. Project Name: _____________________________________________________________
   Location: _________________________________________________________________
   Owner: _________________________________________________________________
   Owner Contact (name and phone): __________________________________________
   Architect/Engineer: ________________________________________________________
   Architect/Engineer Contact (name and phone number): ________________________
   Const. Mgr. or Project Mgr. (name and phone number): ______________________
   Description of Project, Scope of Work Performed: ______________________________
   __________________________________________________________________________
   Total Construction Cost: ____________________________________________________
   Total Change Order Amount: _________________________________________________
   Did Change Orders exceed 10% of original contract sum? ___________ If yes, please explain on separate sheet.
   Original Scheduled Date of Completion: _________________________________
   Time Extensions Granted (number of Days): _________________________________
   Actual Date of Completion: _________________________________
   Number of Stop Notices filed by Subcontractors or Suppliers: __________________

2. Project Name: _____________________________________________________________
   Location: _________________________________________________________________
   Owner: _________________________________________________________________
   Owner Contact (name and phone): __________________________________________
   Architect/Engineer: ________________________________________________________
   Architect/Engineer Contact (name and phone number): ________________________
   Const. Mgr. Or Project Mgr. (name and phone number): ______________________
   Description of Project, Scope of Work Performed: ______________________________
   __________________________________________________________________________
Total Construction Cost: ____________________________________________________________

Total Change Order Amount: ________________________________________________________

Did Change Orders exceed 10% of original contract sum? __________ If yes, please explain on separate sheet.

Original Scheduled Date of Completion: _____________________________________________

Time Extensions Granted (number of Days): __________________________________________

Actual Date of Completion: _______________________________________________________

Number of Stop Notices filed by Subcontractors or Suppliers: ____________________________

3. Project Name: _________________________________________________________________

Location: _______________________________________________________________________

Owner: _________________________________________________________________________

Owner Contact (name and phone): _________________________________________________

Architect/Engineer: ________________________________________________________________

Architect/Engineer Contact (name and phone number): ________________________________

Const. Mgr. Or Project Mgr. (name and phone number): _________________________________

Description of Project, Scope of Work Performed: __________________________________

________________________________________________

Total Construction Cost: __________________________________________________________

Total Change Order Amount: ______________________________________________________

Did Change Orders exceed 10% of original contract sum? __________ If yes, please explain on separate sheet.

Original Scheduled Date of Completion: _____________________________________________

Time Extensions Granted (number of Days): __________________________________________

Actual Date of Completion: _______________________________________________________

Number of Stop Notices filed by Subcontractors or Suppliers: ____________________________

Statement of Qualifications
Merritt College Science Building Site Paving
PART D: FINANCIAL INFORMATION

1. Has Bidder ever reorganized under the protection of bankruptcy laws? Yes _____ No _____ If yes, please state when _________________

2. If Bidder has had the general liability carrier identified in Document 00 4314 (Bidder Registration and Safety Experience Form) for less than 5 years, please provide additional information below for balance of the last 5 years:

   Agency Name: ____________________________________________________________________
   Contact Name: ____________________________________________________________________
   Phone Number ____________________________________________________________________
   Carrier: ___________________________________ A.M. Best Rating: ________________________
   Carrier: ___________________________________ A.M. Best Rating: ________________________
   Carrier: ___________________________________ A.M. Best Rating: ________________________

3. Has Bidder ever had insurance terminated by a carrier? Yes _____ No _____
   If yes, explain on a separate signed sheet marked with correlating cross-reference to this paragraph of the questionnaire.

Bidder hereby declares under penalty of perjury that all the information provided in this questionnaire is true and correct.

________________________________________________
SIGNATURE

________________________________________________
TITLE

END OF DOCUMENT
STATE OF CALIFORNIA )
) ss.
COUNTY OF ____________________ )

_________________________________________________________________, being first duly sworn,
(Name of Principal of Bidder)
deposes and says that he or she is _______________________________________________________
(Office of Affiant)
of ____________________________________________, the party
(Name of Bidder)
making the foregoing Bid, that the Bid is not made in the interest of, or on behalf of, any undisclosed
person, partnership, company, association, organization, or corporation; that the Bid is genuine and not
collusive or sham; that Bidder has not directly or indirectly induced or solicited any other bidder to put in a
false or sham Bid, and has not directly or indirectly colluded, conspired, connived or agreed with any
bidder or anyone else to put in a sham Bid, or that anyone shall refrain from bidding, and that the Bidder
has not in any manner, directly or indirectly, sought by agreement, communication or conference with
anyone to fix the Bid price of Bidder or any other bidder, or to fix any overhead, profit or cost element of
the Bid price, or of that of any other bidder, or to secure any advantage against Owner, or anyone
interested in the proposed contract; that all statements contained in the Bid are true; and further, that
Bidder has not, directly or indirectly, submitted its Bid price or any breakdown thereof, or the contents
thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any
corporation, partnership, company association, organization, Bid depository, or to any member or agent
thereof to effectuate a collusive or sham Bid.

Executed under penalty of perjury under the laws of the State of California:

__________________________________________
(Name of Bidder)

__________________________________________
(Signature of Principal)

Subscribed and sworn before me ____________________
This _____________ day of ____________________________, 201__
Notary Public of the State of ____________________
In and for the County of ____________________
My Commission expires ____________________ (Seal)
NOTE: If Bidder is a partnership or a joint venture, this affidavit must be signed and sworn to by every member of the partnership or venture.

NOTE: If Bidder [including any partner or venturer of a partnership or joint venture] is a corporation, this affidavit must be signed by the Chairman, President, or Vice President and by the Secretary, Assistant Secretary, Chief Financial Officer, or Assistant Treasurer.

NOTE: If Bidder’s affidavit on this form is made outside the State of California, the official position of the person taking such affidavit shall be certified according to law.

END OF DOCUMENT
MERRITT COLLEGE SCIENCE BUILDING SITE PAVING

DOCUMENT 00 4546

BIDDER CERTIFICATIONS

TO BE EXECUTED BY ALL BIDDERS AND SUBMITTED WITH BID

The undersigned Bidder certifies to Owner as set forth in sections 1 through 5 below.

1. **STATEMENT OF CONVICTIONS**
   
   By my signature hereunder, I hereby swear, under penalty of perjury, that no more than one final, unappealable finding of contempt of court by a Federal Court has been issued against Bidder within the past two years because of failure to comply with an order of a Federal Court or to comply with an order of the National Labor Relations Board.

2. **CERTIFICATION OF WORKER’S COMPENSATION INSURANCE**
   
   By my signature hereunder, as the Contractor, I certify that 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.

3. **CERTIFICATION OF PREVAILING WAGE RATES AND RECORDS**
   
   By my signature hereunder, as the Contractor, I certify that I am aware of the provisions of Section 1773 of the California Labor Code, which requires the payment of prevailing wage on public projects. Also, that the Contractor and any subcontractors under the Contractor shall comply with California Labor Code §1776, regarding wage records, and with California Labor Code §1777.5, regarding the employment and training of apprentices. It is the Contractor’s responsibility to ensure compliance by any and all subcontractors performing work under this Contract.

4. **CERTIFICATION OF COMPLIANCE WITH PUBLIC WORKS CHAPTER OF LABOR CODE**
   
   By my signature hereunder, as the Contractor, I certify that I am aware of Sections 1777.1 and 1777.7 of the California Labor Code and Contractor and Subcontractors and am eligible to bid and work on public works projects.

5. **CERTIFICATION OF ADEQUACY OF CONTRACT AMOUNT**
   
   By my signature hereunder, as the Contractor, pursuant to Labor Code Section 2810(a), I certify that, if awarded the Contract based on the undersigned’s Bid, the Contract will include funds sufficient to allow the Contractor to comply with all applicable local, state, and federal laws or regulations governing the labor or services to be provided. I understand that the County will be relying on this certification if it awards the Contract to the undersigned.

BIDDER:

________________________________________
(Name of Bidder)

Date: ___________________________, [201 ]

By:____________________________________
(Signature)

Name:___________________________________
(Print Name)

Its:_____________________________________
(Title)
Merritt College Science Building Site Paving

DOCUMENT 00 5100

NOTICE OF AWARD

Dated ______________________________

TO: ____________________________________

ADDRESS: ________________________________

CONTRACT NO.: ______________________________

CONTRACT FOR: Peralta Community College District,
Merritt College Science Building Site Paving
12500 Campus Drive, Oakland, CA 94619

The Contract Sum of your contract is ______________________________________________________

_______________________________________________________Dollars ($____________________).

1. Five copies of the proposed Contract Documents listed below accompany this Notice of Award.

2. You must comply with the following conditions precedent by [5:00 p.m.] of the [20th Day] following the date of this Notice of Award, that is, by [Day of the Week, Month Day, 201____].

   a. Deliver to Owner [four] fully executed counterparts of Document 00 5200 (Agreement). Each copy of Document 00 5200 (Agreement) must bear your original signature on the signature page and your initials on each page.

   b. Deliver to Owner three originals of Document 00 6113.13 (Construction Performance Bond), executed by you and your surety.

   c. Deliver to Owner three originals of Document 00 6113.16 (Construction Labor and Material Payment Bond), executed by you and your surety.

   d. Deliver to Owner original set of the insurance certificates with endorsements required under Document 00 7316 (Supplementary Conditions – Insurance).

   e. Deliver to Owner four original copies of Document 00 6536 (Guaranty), each executed by you.

3. Failure to comply with these conditions within the time specified will entitle Owner to consider your Bid abandoned, to annul this Notice of Award, and to declare your Bid security forfeited.

4. Within [21 Days] after you comply with the conditions in Paragraph 2 of this Document 00 5100, Owner will return to you one fully signed counterpart of Document 00 5200 (Agreement) with 4 copies of the Project Manual (including Specifications and Drawings) and 4 sets of full-size Drawings.

5. Before you may start any Work at the Site, you must attend a preconstruction conference. The preconstruction conference may be arranged through Gary Banks, (510) 587-7892. Questions regarding bonds and insurance may be directed to Gary Banks.
6. Upon commencement of the Work, you and each of your Subcontractors shall certify and provide Owner copies of payroll records on forms provided by the Division of Labor Standards Enforcement, in accordance with California Labor Code §1776.

OWNER

BY: ____________________________
    (Title)

______________________________
    (Print Name)

ATTEST: ____________________________
    Secretary

______________________________
    (Print Name)

AUTHORIZED BY [CITY / COUNTY / DISTRICT] RESOLUTION:

NO: ____________________________

ADOPTED: ____________________________, [201__]

[Copy of Resolution Attached]

END OF DOCUMENT
CONSTRUCTION PERFORMANCE BOND

KNOW ALL PERSONS BY THESE PRESENTS:

1.01 THAT WHEREAS, The Peralta Community College District ("Owner"), a public agency of the State of California, has awarded to (Name of Contractor) as Principal Contract Number ____________________ dated the ___ day of ____________, 20___ (the "Contract"), titled THE __________________ PROJECT in the amount of $ ______________________, which Contract is by this reference made a part hereof, for the work of the following Contract:

(Describe Contract Work)

1.02 AND WHEREAS, Principal is required to furnish a bond in connection with the Contract, guaranteeing the faithful performance thereof;

1.03 NOW, THEREFORE, we, the undersigned Principal and (Name of Surety) ____________________ as Surety are held and firmly bound unto Owner in the sum of 100% OF THE CONTRACT PRICE to be paid to Owner or its successors and assigns; for which payment, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

1.04 THE CONDITION OF THIS OBLIGATION IS SUCH, that if Principal, or its heirs, executors, administrators, successors, or assigns approved by Owner, shall promptly and faithfully perform the covenants, conditions, and agreements of the Contract during the original term and any extensions thereof as may be granted by Owner, with or without notice to Surety, and during the period of any guarantees or warranties required under the Contract, and shall also promptly and faithfully perform all the covenants, conditions, and agreements of any alteration of the Contract made as therein provided, notice of which alterations to Surety being hereby waived, on Principal's part to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify, defend, protect, and hold harmless Owner as stipulated in the Contract, then this obligation shall become and be null and void; otherwise it shall be and remain in full force and effect.

1.05 No extension of time, change, alteration, modification, or addition to the Contract, or of the work required thereunder, or work or actions by Owner to mitigate the damages resulting from any breach in performance by Contractor, shall release or exonerate Surety on this bond or in any way affect the obligation of this bond; and Surety does hereby waive notice of any such extension of time, change, alteration, modification, or addition.

1.06 Whenever Principal shall be and declared by Owner in default under the Contract, Surety shall promptly remedy the default, or shall promptly, and in no event later than thirty (30) days from notice:

A. Undertake through its agents or independent contractors (but having qualifications and experience reasonably acceptable to Owner), to complete the Contract in accordance with its terms and conditions and to pay and perform all obligations of Principal under the Contract, including without limitation, all obligations with respect to warranties, guarantees, indemnities, and the payment of liquidated damages; or
B. Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and, upon determination by Owner of the lowest responsible bidder, arrange for a contract between such bidder and Owner and make available as work progresses (even though there should be a default or a succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the Contract Sum, and to pay and perform all obligations of Principal under the Contract, including, without limitation, all obligations with respect to warranties, guarantees, and the payment of liquidated damages; but, in any event, Surety’s total obligations hereunder shall not exceed the amount set forth in the third paragraph hereof. The term “balance of the Contract Sum,” as used in this paragraph, shall mean the total amount payable by Owner to the Principal under the Contract and any amendments thereto, less the amount paid by Owner to Principal.

1.07 Surety’s obligations hereunder are independent of the obligations of any other surety for the performance of the Contract, and suit may be brought against Surety and such other sureties, jointly and severally, or against any one or more of them, or against less than all of them without impairing Owner’s rights against the others.

1.08 Surety may not use Contractor to complete the Contract absent Owner’s Consent. Owner shall have the right in its sole discretion to continue the work of the Contract, as necessary following a default and/or termination, as necessary to prevent risks of personal injury, property damage or delay to the Project.

1.09 No right of action shall accrue on this bond to or for the use of any person or corporation other than Owner or its successors or assigns.

1.10 Surety shall join in any proceedings brought under the Contract upon Owner’s demand, and shall be bound by any judgment.

1.11 Correspondence or claims relating to this bond shall be sent to Surety at the address set forth below.

IN WITNESS WHEREOF, we have hereunto set our hands this ________ day of __________, 20____.

CONTRACTOR AS PRINCIPAL        SURETY

Company: (Corp. Seal)               Company: (Corp. Seal)
Signature: __________________________ Signature: __________________________
Name and Title: ______________________ Name and Title: ______________________
Address: ____________________________ Address: ____________________________

______________________________
______________________________

END OF DOCUMENT
Merritt College Science Building Site Paving

DOCUMENT 00 6113.16

CONSTRUCTION LABOR AND MATERIAL PAYMENT BOND

KNOW ALL PERSONS BY THESE PRESENTS:

1.01 THA THAT WHEREAS, The Peralta Community College District ("Owner") has awarded to (Name of Contractor) as Principal Contract Number , dated the day of , 20 , (the "Contract"), titled THE PROJECT in the amount of $ , which Contract is by this reference made a part hereof, for the work of the following Contract: Merritt College Science Building Site Paving

A. AND WHEREAS, Principal is required to furnish a bond in connection with the Contract to secure the payment of claims of laborers, mechanics, material suppliers, and other persons as provided by law;

B. NOW, THEREFORE, we, the undersigned Principal and (Name of Surety), as Surety, are held and firmly bound unto Owner in the sum of 100% OF THE CONTRACT PRICE ($ ), for which payment well and truly to be made we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

C. THE CONDITION OF THIS OBLIGATION IS SUCH, that if Principal, or its executors, administrators, successors, or assigns approved by Owner, or its subcontractors shall fail to pay any of the persons named in California Civil Code §3181, or amounts due under the State of California Unemployment Insurance Code with respect to work or labor performed under the Contract, or for any amounts required to be deducted, withheld, and paid over to the State of California Employment Development Department from the wages of employees of Principal and subcontractors pursuant to Section 13020 of the State of California Unemployment Insurance Code with respect to such work and labor, that Surety will pay for the same in an amount not exceeding the sum specified in this bond, plus reasonable attorneys’ fees, otherwise the above obligation shall become and be null and void.

D. This bond shall inure to the benefit of any of the persons named in California Civil Code §3181, as to give a right of action to such persons or their assigns in any suit brought upon this bond.

E. Surety, for value received, hereby expressly agrees that no extension of time, change, modification, alteration, or addition to the undertakings, covenants, terms, conditions, and agreements of the Contract, or to the work to be performed thereunder, shall in any way affect the obligation of this bond; and it does hereby waive notice of any such extension of time, change, modification, alteration, or addition to the undertakings, covenants, terms, conditions, and agreements of the Contract, or to the work to be performed thereunder.

F. Surety’s obligations hereunder are independent of the obligations of any other surety for the payment of claims of laborers, mechanics, material suppliers, and other persons in connection with Contract; and suit may be brought against Surety and such other sureties, jointly and severally, or against any one or more of them, or against less than all of them without impairing Owner’s rights against the other.

G. Correspondence or claims relating to this bond shall be sent to Surety at the address set forth below.
IN WITNESS WHEREOF, we have hereunto set our hands this ____ day of ____________, 20__.

CONTRACTOR AS PRINCIPAL

Company: (Corp. Seal)

Signature

Name

Title

Street Address

City, State, Zip Code

SURETY

Company: (Corp. Seal)

Signature

Name

Title

Street Address

City, State, Zip Code

END OF DOCUMENT
MERRITT COLLEGE SCIENCE BUILDING SITE PAVING

DOCUMENT 00 6290

ESCROW AGREEMENT FOR SECURITY DEPOSIT IN LIEU OF RETENTION

California Public Contract Code §22300

THIS ESCROW AGREEMENT ("Escrow Agreement") is made and entered into this __________ day of __________, 201__, by and between the Peralta Community College District, ("Owner"), whose address is 333 East 8th Street, Oakland, CA 94606, __________ (Name of Contractor), whose place of business is located at __________ (Contractor's Address), and __________ (Owner's Name of Contractor or Bank), a state or federally chartered bank in the State of California, whose place of business is located at __________ (Escrow Agent).

For the consideration hereinafter set forth, Owner, Contractor and Escrow Agent agree as follows:

1. Pursuant to California Public Contract Code §22300, Contractor has the option to deposit securities with Escrow Agent as a substitute for retention earnings required to be withheld by Owner pursuant to Contract Number __________ entered into between Owner and Contractor for Merritt College Science Building Site Paving located at 12500 Campus Drive, Oakland, CA 94619 (the "Contract"). Alternatively, on written request of Contractor, Owner shall make payments of the retention earnings directly to Escrow Agent. When Contractor deposits the securities as a substitute for retention earnings, Escrow Agent shall notify Owner within ten Days of the deposit. The market value of the securities at the time of substitution shall be at least equal to the cash amount then required to be withheld as retention under terms of Contract between Owner and Contractor. Securities shall be held in name of __________, and shall designate Contractor as the beneficial owner.

2. Owner shall make progress payments to Contractor for those funds which otherwise would be withheld from progress payments pursuant to Contract provisions, provided that Escrow Agent holds securities in form and amount specified in Paragraph 1 of this Document 00 6290.

3. When Owner makes payment(s) of retention earned directly to Escrow Agent, Escrow Agent shall hold said payment(s) for the benefit of Contractor until the time that the escrow created under this Escrow Agreement is terminated. Contractor may direct the investment of the payments into securities. All terms and conditions of this Escrow Agreement and the rights and responsibilities of the parties shall be equally applicable and binding when Owner pays Escrow Agent directly.

4. Contractor shall be responsible for paying all fees for the expenses incurred by Escrow Agent in administering the Escrow Account, and all expenses of Owner. Such expenses and payment terms shall be determined by Owner, Contractor, and Escrow Agent.

5. Interest earned on securities or money market accounts held in escrow and all interest earned on that interest shall be for sole account of Contractor and shall be subject to withdrawal by Contractor at any time and from time to time without notice to Owner.

6. Contractor shall have the right to withdraw all or any part of the principal in the Escrow Account only by written notice to Escrow Agent accompanied by written authorization from Owner to Escrow Agent that Owner consents to withdrawal of amount sought to be withdrawn by Contractor.
7. Owner shall have the right to draw upon the securities in event of default by Contractor. Upon seven Days written notice to Escrow Agent from Owner of the default, Escrow Agent shall immediately convert the securities to cash and shall distribute the cash as instructed by Owner.

8. Upon receipt of written notification from Owner certifying that the Contract is final and complete, and that Contractor has complied with all requirements and procedures applicable to the Contract, Escrow Agent shall release to Contractor all securities and interest on deposit less escrow fees and charges of the Escrow Account. The escrow shall be closed immediately upon disbursement of all moneys and securities on deposit and payments of fees and charges.

9. Escrow Agent shall rely on written notifications from Owner and Contractor pursuant to Paragraphs 5 through 8, inclusive, of this Document and Owner and Contractor shall hold Escrow Agent harmless from Escrow Agent’s release and disbursement of securities and interest as set forth.

10. Names of persons who are authorized to give written notice or to receive written notice on behalf of Owner and on behalf of Contractor in connection with the foregoing, and exemplars of their respective signatures are as follows:

**ON BEHALF OF OWNER:**

| Title | ___________________________
| Name | ___________________________
| Signature | ___________________________
| Address | ___________________________
| City/State/Zip Code | ___________________________

**ON BEHALF OF CONTRACTOR:**

| Title | ___________________________
| Name | ___________________________
| Signature | ___________________________
| Address | ___________________________
| City/State/Zip Code | ___________________________

**ON BEHALF OF ESCROW AGENT:**

| Title | ___________________________
| Name | ___________________________
| Signature | ___________________________
| Address | ___________________________
| City/State/Zip Code | ___________________________

IN WITNESS WHEREOF, the parties have executed this Escrow Agreement by their proper officers on the date first set forth above.

**OWNER**

________________________________________

**CONTRACTOR**

________________________________________

Title

Escrow Agreement for Security
Deposits in Lieu of Retention
Merritt College Science Building Site Paving
At the time the Escrow Account is opened, Owner and Contractor shall deliver to Escrow Agent a fully executed counterpart of this Document 00 6290.

END OF DOCUMENT
To: The Peralta Community College District, Owner

<table>
<thead>
<tr>
<th>PROJECT:</th>
<th>Contractor:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner Project No:</td>
<td></td>
</tr>
</tbody>
</table>

Substitution Request By: Firm:

Transmittal Record

<table>
<thead>
<tr>
<th>Attn:</th>
<th>Firm:</th>
<th>Date Sent:</th>
<th>Date Rec’d:</th>
<th>Date Due:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contractor to Owner</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contractor to Architect</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Owner / Architect to Consultant</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Architect to Owner Representative</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Owner Representative to Contractor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

We hereby submit for your consideration the following product instead of the specified item for the Project:

<table>
<thead>
<tr>
<th>Section / Drawing</th>
<th>Article</th>
<th>Specified Item</th>
</tr>
</thead>
</table>

Proposed Substitution:

We have (a) attached manufacturer’s literature, including complete technical data and laboratory test results, if applicable, (b) attached an explanation of why proposed substitution is a true equivalent to specified item, (c) included complete information on changes to Contract Documents that the proposed substitution will require for its proper installation, and (d) filled in the blanks below:
Contractor to complete questions that follow and certifies to the accuracy of all answers:

<table>
<thead>
<tr>
<th>Question</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Does the substitution affect dimensions shown on Drawings?</td>
<td>Yes ___ / No ___. If No, please explain proposed mitigation and why substitution is equivalent to originally specified item:</td>
</tr>
<tr>
<td>B. Will the undersigned pay for changes to the building design, including engineering and detailing costs caused by the requested substitution?</td>
<td>Yes ___ / No ___. If No, please state reasons explain why substitution is equivalent to originally specified item:</td>
</tr>
<tr>
<td>C. What effect does the substitution have on other trades?</td>
<td>No effect: __ / Some effect ___. If substitution will affect other trades, please explain the effect and why substitution is equivalent to originally specified item:</td>
</tr>
<tr>
<td>D. Will substitution cause change to Project Schedule, or to critical delivery dates?</td>
<td>Add? Shorten? If the substitution will add to schedule dates or affect critical activities, please explain why substitution is equivalent to originally specified item:</td>
</tr>
<tr>
<td>E. Please describe differences between proposed substitution and specified item?</td>
<td>Please explain and identify any and all differences, and please explain why substitution is equivalent to originally specified item:</td>
</tr>
<tr>
<td>F. What is the Cost Differential to Contractor in original specified item and proposed substitution including all mark-ups?</td>
<td>[If substitution requested during bid period, skip this question.]</td>
</tr>
<tr>
<td>G. Are Manufacturer's guarantees for the proposed item the same as for item specified?</td>
<td>Yes <strong><strong>; No</strong></strong>_. If No, please explain why substitution is equivalent to originally specified item:</td>
</tr>
</tbody>
</table>
H. Contractor accepts full responsibility for delays caused by redesign of other items of the Work necessitated by substitution? Yes ___ / No ___. If No, please state reasons and explain why substitution is equivalent to originally specified item:

I. Contractor states that the function, appearance and quality are equivalent or superior to the specified item? Yes ___ / No ___. If No, please explain why substitution is equivalent to originally specified item:

We certify that the function, appearance, and quality of the proposed substitution are equivalent or superior to those of the specified item, except as we may specifically state otherwise in this request.

Submitted by: ___________________________  Signature: ___________________________
Firm: ___________________________  Date: ___________________________
Address: ___________________________  Phone/ Fax: ___________________________
Remarks: ___________________________

<table>
<thead>
<tr>
<th>Consultant Response:</th>
<th>Owner Representative Response:</th>
</tr>
</thead>
<tbody>
<tr>
<td>o Accepted</td>
<td>o Accepted</td>
</tr>
<tr>
<td>o Not Accepted</td>
<td>o Not Accepted</td>
</tr>
<tr>
<td>o Accepted As Noted</td>
<td>o Accepted As Noted</td>
</tr>
<tr>
<td>o Received Too Late</td>
<td>o Received Too Late</td>
</tr>
</tbody>
</table>

Remarks:____________________

By:____________________

END OF DOCUMENT
MERRITT COLLEGE SCIENCE BUILDING SITE PAVING

DOCUMENT 00 6500

AGREEMENT AND RELEASE OF ANY AND ALL CLAIMS

THIS AGREEMENT AND RELEASE OF ANY AND ALL CLAIMS ("Agreement and Release"), made and entered into this [date] day of [Month], [200_], by and between the Peralta Community College District ("District"), and [Name of Contractor] ("Contractor"), whose place of business is at [Address of Contractor].

RECITALS

A. District and Contractor entered into Contract Number [insert number] (the "Contract") for construction of the Peralta Community College District [Project Name] at [School Name] located at [School Street Address], [City], California.

B. The Work under the Contract has been completed.

AGREEMENT

NOW THEREFORE, it is mutually agreed between District and Contractor as follows:

1. Contractor will not be assessed liquidated damages except as detailed below:

   Original Contract Sum  $ ____________________________

   Modified Contract Sum  $ ____________________________

   Payment to Date  $ ____________________________

   Liquidated Damages  $ ____________________________

   Payment Due Contractor  $ ____________________________

2. Subject to the provisions of this Agreement and Release, District will forthwith pay to Contractor the sum of [________________________________________] Dollars and [____________________ Cents ($___________________)] under the Contract, less any amounts withheld under the Contract or represented by any Notice to Withhold Funds on file with District as of the date of such payment.

3. Contractor acknowledges and hereby agrees that there are no unresolved or outstanding claims in dispute against District arising from the Contract, except for the claims described in Paragraph 4 of this Document 00650. It is the intention of the parties in executing this Agreement and Release that this Agreement and Release shall be effective as a full, final and general release of all claims, demands, actions, causes of action, obligations, costs, expenses, damages, losses and liabilities of Contractor against District, and all if its agents, employees, consultants, inspectors, representatives, assignees and transferees, except for the Disputed Claims set forth in Paragraph 4 of this Document 00650. Nothing in this Agreement and Release shall limit or modify Contractor’s continuing obligations described in Paragraph 6 of this Document 00650.
4. The following claims submitted under Document 00700 (General Conditions), Article 12, are disputed (hereinafter, the “Disputed Claims”) and are specifically excluded from the operation of this Agreement and Release.

[Insert information in Chart below, affix attachment if necessary]

<table>
<thead>
<tr>
<th>CLAIM NO..</th>
<th>DATE SUBMITTED</th>
<th>DESCRIPTION OF CLAIM</th>
<th>AMOUNT OF CLAIM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5. Consistent with California Public Contract Code §7100, Contractor hereby agrees that, in consideration of the payment set forth in Paragraph 2 of this Document 006500, Contractor hereby releases and forever discharges District, and all of its agents, employees, consultants, inspectors, assignees and transferees from any and all liability, claims, demands, actions or causes of action of whatever kind or nature arising out of or in any way concerned with the Work under the Contract.

6. Guarantees and warranties for the Work, and any other continuing obligation of Contractor, shall remain in full force and effect as specified in the Contract Documents.

7. Contractor shall immediately defend, indemnify and hold harmless District, any of the District’s Representatives, Project Manager, and all of their agents, employees, consultants, inspectors, assignees and transferees, from any and all claims, demands, actions, causes of action, obligations, costs, expenses, damages, losses and liabilities that may be asserted against them by any of Contractor’s suppliers and/or Subcontractors of any tier and/or any suppliers to them for any and all labor, materials, supplies and equipment used, or contemplated to be used in the performance of the Contract, except for the Disputed Claims set forth in Paragraph 4 of this Document 00650.

8. Contractor hereby waives the provisions of California Civil Code §1542, which provide as follows:

   A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS WHICH THE CREDITOR DOES NOT KNOW OR SUSPECT TO EXIST IN HIS FAVOR AT THE TIME OF EXECUTING THE RELEASE, WHICH IF KNOWN BY HIM, MUST HAVE MATERIALLY, AFFECTED HIS SETTLEMENT WITH THE DEBTOR.

9. The provisions of this Agreement and Release are contractual in nature and not mere recitals and shall be considered independent and severable, and if any such provision or any part thereof shall be at any time held invalid in whole or in part under any federal, state, county, municipal or other law, ruling, or regulation, then such provision, or part thereof shall remain in force and effect only to the extent permitted by law, and the remaining provisions of this Agreement and Release shall also remain in full force and effect, and shall be enforceable.
10. Contractor represents and warrants that it is the true and lawful owner of all claims and other matters released pursuant to this Agreement and Release, and that it has full right, title and authority to enter into this instrument. Each party represents and warrants that it has been represented by counsel of its own choosing in connection with this Agreement and Release.

11. All rights of District shall survive completion of the Work or termination of the Contract, and execution of this Agreement and Release.

** CAUTION: THIS IS A RELEASE - READ BEFORE EXECUTING **

PERALTA COMMUNITY COLLEGE DISTRICT

By: ____________________________________________
    Signature

Name: __________________________________________
    Print

Its: ____________________________________________
    Title

ATTEST:

______________________________________________
    Secretary

______________________________________________
    Print

[CONTRACTOR]

By: ____________________________________________
    Signature

Name: __________________________________________
    Print

Its: ____________________________________________
    Title

[CONTRACTOR]
By: ______________________________________________________
    Signature

Name: _____________________________________________________
    Print

Its: _______________________________________________________
    Title

REVIEWED AS TO FORM:

Dated: ___________________________, [200__]

By: _______________________________________________________
    Counsel for District

Name: ___________________________________________________
    Print

END OF DOCUMENT
TO:  The Peralta Community College District ("Owner"), for construction of the Merritt College Science Building Site Paving located at 12500 Campus Drive, Oakland, CA 94619.

The undersigned guarantees all construction performed on this Project and also guarantees all material and equipment incorporated therein.

Contractor hereby grants to Owner for a period of one year following the date of Final Acceptance of the Work completed, or such longer period specified in the Contract Documents, its unconditional warranty of the quality and adequacy of all of the Work including, without limitation, all labor, materials and equipment provided by Contractor and its Subcontractors of all tiers in connection with the Work.

Neither final payment nor use nor occupancy of the Work performed by the Contractor shall constitute an acceptance of Work not done in accordance with this Guaranty or relieve Contractor of liability in respect to any express warranties or responsibilities for faulty materials or workmanship. Contractor shall remedy any defects in the Work and pay for any damage resulting therefrom, which shall appear within one year, or longer if specified, from the date of Final Acceptance of the Work completed.

If within one year after the date of Final Acceptance of the Work completed, or such longer period of time as may be prescribed by laws or regulations, or by the terms of Contract Documents, any Work is found to be Defective, Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions, correct such Defective Work. Contractor shall remove any Defective Work rejected by Owner and replace it with Work that is not Defective, and satisfactorily correct or remove and replace any damage to other Work or the work of others resulting therefrom. If Contractor fails to promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk of loss or damage, Owner may have the Defective Work corrected or the rejected Work removed and replaced. Contractor shall pay for all claims, costs, losses and damages caused by or resulting from such removal and replacement. Where Contractor fails to correct Defective Work, or defects are discovered outside the correction period, Owner shall have all rights and remedies granted by law.

Inspection of the Work shall not relieve Contractor of any of its obligations under the Contract Documents. Even though equipment, materials, or Work required to be provided under the Contract Documents have been inspected, accepted, and estimated for payment, Contractor shall, at its own expense, replace or repair any such equipment, material, or Work found to be Defective or otherwise not to comply with the requirements of the Contract Documents up to the end of the guaranty period.

All abbreviations and definitions of terms used in this Agreement shall have the meanings set forth in the Contract Documents.

The foregoing Guaranty is in addition to any other warranties of Contractor contained in the Contract Documents, and not in lieu of, any and all other liability imposed on Contractor under the Contract Documents and at law with respect to Contractor’s duties, obligations, and performance under the Contract Documents. In the event of any conflict or inconsistency between the terms of this Guaranty and any warranty or obligation of the Contractor under the Contract Documents or at law, such inconsistency or conflict shall be resolved in favor of the higher level of obligation of the Contractor.

Date: ____________________________ , 20__

Contractor’s name
# General Conditions

## Merritt College Science Building Site Paving

**DOCUMENT 00 7200**

### GENERAL CONDITIONS

<table>
<thead>
<tr>
<th>ARTICLE</th>
<th>DESCRIPTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.01</td>
<td>Interpretation Of Documents</td>
<td>1</td>
</tr>
<tr>
<td>1.02</td>
<td>Order Of Precedence Of Documents</td>
<td>1</td>
</tr>
<tr>
<td>2.01</td>
<td>Pre-Bid Investigations Required</td>
<td>1</td>
</tr>
<tr>
<td>2.02</td>
<td>Limited Reliance Permitted On Owner's Existing Conditions Data</td>
<td>2</td>
</tr>
<tr>
<td>2.03</td>
<td>Pre-Bid Investigation Requirements For Excavation And Utilities Relocation Projects</td>
<td>2</td>
</tr>
<tr>
<td>3.01</td>
<td>Subcontractor Listing Law</td>
<td>3</td>
</tr>
<tr>
<td>3.02</td>
<td>Subcontracts</td>
<td>3</td>
</tr>
<tr>
<td>4.01</td>
<td>Intent Of Drawings And Specifications</td>
<td>3</td>
</tr>
<tr>
<td>4.02</td>
<td>Checking Of Drawings And Specifications</td>
<td>3</td>
</tr>
<tr>
<td>4.03</td>
<td>Interpretation Of Drawings And Specifications</td>
<td>4</td>
</tr>
<tr>
<td>4.04</td>
<td>Use Of Drawings And Specifications</td>
<td>4</td>
</tr>
<tr>
<td>5.01</td>
<td>Submission Of Required Schedules</td>
<td>4</td>
</tr>
<tr>
<td>5.02</td>
<td>Commencement Date Of Contract Time</td>
<td>5</td>
</tr>
<tr>
<td>6.01</td>
<td>Contractor’s Legal Address</td>
<td>5</td>
</tr>
<tr>
<td>6.02</td>
<td>Contractor’s Superintendents Or Forepersons</td>
<td>5</td>
</tr>
<tr>
<td>6.03</td>
<td>Proficiency In English</td>
<td>5</td>
</tr>
<tr>
<td>6.04</td>
<td>Contractor’s And Subcontractors’ Employees</td>
<td>5</td>
</tr>
<tr>
<td>6.05</td>
<td>Contractor’s Use Of The Site</td>
<td>5</td>
</tr>
<tr>
<td>6.06</td>
<td>Contractor’s Site Office</td>
<td>6</td>
</tr>
<tr>
<td>7.01</td>
<td>Owner’s Representative(s)</td>
<td>6</td>
</tr>
<tr>
<td>7.02</td>
<td>Owner’s Observation Of The Work</td>
<td>6</td>
</tr>
<tr>
<td>7.03</td>
<td>Architect/Engineer’s Observation Of Work</td>
<td>6</td>
</tr>
<tr>
<td>7.04</td>
<td>Owner’s And Architect/Engineer’s Exercise Of Contract Responsibilities</td>
<td>7</td>
</tr>
<tr>
<td>7.05</td>
<td>Owner’s Right Of Access To The Work</td>
<td>7</td>
</tr>
<tr>
<td>7.06</td>
<td>Owner’s Right Of Separate Construction</td>
<td>7</td>
</tr>
<tr>
<td>8.01</td>
<td>Contractor To Supervise The Work</td>
<td>7</td>
</tr>
<tr>
<td>8.02</td>
<td>Contractor To Maintain Cost Data</td>
<td>8</td>
</tr>
<tr>
<td>8.03</td>
<td>Contractor To Supply Sufficient Workers And Materials</td>
<td>8</td>
</tr>
<tr>
<td>8.04</td>
<td>Contractor To Maintain Project Record Documents</td>
<td>9</td>
</tr>
<tr>
<td>8.05</td>
<td>Contractor To Not Disrupt Owner Operation</td>
<td>9</td>
</tr>
<tr>
<td>8.06</td>
<td>Contractor To Provide Temporary Facilities And Controls</td>
<td>9</td>
</tr>
<tr>
<td>9.01</td>
<td>Warranty And Guaranty</td>
<td>9</td>
</tr>
<tr>
<td>9.02</td>
<td>Inspection Of Work</td>
<td>10</td>
</tr>
<tr>
<td>9.03</td>
<td>Correction Of Defective Work</td>
<td>11</td>
</tr>
<tr>
<td>9.04</td>
<td>Acceptance And Correction Of Defective Work By Owner</td>
<td>12</td>
</tr>
<tr>
<td>9.05</td>
<td>Rights Upon Inspection, Correction Or Acceptance</td>
<td>12</td>
</tr>
<tr>
<td>9.06</td>
<td>Proof Of Compliance Of Contract Provisions</td>
<td>12</td>
</tr>
<tr>
<td>9.07</td>
<td>Correction Period And Project Warranty Period</td>
<td>13</td>
</tr>
<tr>
<td>9.08</td>
<td>No Waiver</td>
<td>13</td>
</tr>
<tr>
<td>10.01</td>
<td>Modifications Of Contract Documents</td>
<td>13</td>
</tr>
</tbody>
</table>
ARTICLE 11 - TIME ALLOWANCES ................................................................. 14
  11.01 Time Allowances .............................................................................. 14
  11.02 Excusable Delay And Inexcusable Delay Defined ......................... 14
  11.03 Notice Of Delay .............................................................................. 15
  11.04 Compensable Time Extensions ....................................................... 15
  11.05 Non-Compensable Time Extensions .............................................. 15
  11.06 Adverse Weather .......................................................................... 15
  11.07 Liquidated Damages ....................................................................... 16
ARTICLE 12 - CLAIMS BY CONTRACTOR .................................................... 16
  12.01 Obligation to File Claims for Disputed Work ................................ 16
  12.02 Form And Contents Of Claim ........................................................ 17
  12.03 Administration During/After Claim Submission ......................... 17
  12.04 Compliance .................................................................................. 17
ARTICLE 13 - UNDERGROUND CONDITIONS .......................................... 18
  13.01 Contractor To Locate Underground Facilities ............................... 18
  13.02 Contractor To Protect Underground Facilities ............................. 18
  13.03 Concealed Or Unknown Conditions ............................................ 19
  13.04 Notice Of Hazardous Waste Or Materials Conditions ............... 20
ARTICLE 14 - LEGAL AND MISCELLANEOUS ............................................. 21
  14.01 Laws And Regulations .................................................................. 21
  14.02 Permits And Taxes ......................................................................... 21
  14.03 Communications And Information Distribution ......................... 21
  14.04 Suspension Of Work ..................................................................... 22
  14.05 Termination Of Contract For Cause ............................................. 22
  14.06 Termination Of Contract For Convenience .................................. 22
  14.07 Contingent Assignment Of Subcontracts ..................................... 23
  14.08 Remedies And Contract Integration .............................................. 23
  14.09 Interpretation ................................................................................ 24
  14.10 Patents .......................................................................................... 24
  14.11 Substitution For Patented And Specified Articles ....................... 24
  14.12 Interest Of Public Officers ............................................................. 24
  14.13 Limit Of Liability ........................................................................... 25
ARTICLE 15 - WORKING CONDITIONS AND PREVAILING WAGES .......... 25
  15.01 Use Of Site/Sanitary Rules ............................................................... 25
  15.02 Protection Of Work, Persons, And Property ................................. 25
  15.03 Responsibility For Safety And Health ........................................... 26
  15.04 Emergencies ................................................................................ 26
  15.05 Use Of Roadways And Walkways ................................................ 26
  15.06 Nondiscrimination ....................................................................... 27
  15.07 Prevailing Wages And Working Hours ......................................... 27
  15.08 Environmental Controls ............................................................... 28
  15.09 Shoring Safety Plan ..................................................................... 28
GENERAL CONDITIONS

ARTICLE 1 - INTERPRETATION OF CONTRACT DOCUMENTS

1.01 Interpretation Of Documents
   A. Contract Documents are complementary; what is called for by one is as binding as if called for by all.
   B. Individual Contract Documents subdivide at first level into Articles, and then into paragraphs.

1.02 Order Of Precedence Of Documents
   A. In the case of discrepancy or ambiguity in the Contract Documents, the following order of precedence shall prevail:
      1. Modifications in inverse chronological order (i.e., most recent first), and in the same order as specific portions they are modifying;
      2. Agreement Forms (Document 00 5200), and terms and conditions referenced therein;
      3. Supplementary General Conditions (Document 00 7201 et seq), if included;
      4. General Conditions (Document 00 7200);
      5. Division 1 Specifications, if included;
      6. Drawings and Technical Specifications (Division 2 and above);
      7. Written numbers over figures, unless obviously incorrect;
      8. Figured dimensions over scaled dimensions;
      9. Large-scale Drawings over small-scale Drawings.
   B. Any conflict between Drawings and Technical Specifications (Division 2 and above) will be resolved in favor of the document of the latest date (i.e., the most recent document), and if the dates are the same or not determinable, then in favor of Specifications.
   C. Any conflict between a bill or list of materials shown in the Contract Documents and the actual quantities required to complete Work required by Contract Documents, will be resolved in favor of the actual quantities.
   D. All Technical Specifications included in the Project manual shall be included within the Contract Documents unless identified otherwise.

ARTICLE 2 - PRE-BID INVESTIGATIONS

2.01 Pre-Bid Investigations Required
   A. Prior to and as a condition of submitting a Bid and executing Document 00 5200 (Agreement), Contractor shall make reasonable efforts to investigate fully the Work of the Contract. Contractor shall visit the Site, examine thoroughly and understand fully the nature and extent of the Contract Documents, Work, Site, locality, actual conditions and as-built conditions.
   B. Contractor’s investigation shall include, without limitation, requesting and thoroughly examining of all reports of exploration and tests of subsurface conditions, as-built drawings, drawings, product specification(s) or reports, made available by Owner for contracting purposes or during Contractor’s pre-bid investigations, of existing above ground and (to the extent applicable) below ground conditions (together, “Existing Conditions Data”), including, as applicable, Underground Facilities, geotechnical data, as-built data, utility surveys, record documents of all types, hazardous materials surveys, or similar materials which may appear or be referenced in the Project Manual or the in the Contract Documents, and all local conditions, and federal, state and local laws and regulations that in any manner may affect cost, progress, performance or furnishing of Work or which relate to any aspect of the means, methods, techniques, sequences or procedures of construction to be employed by Contractor and safety precautions and programs incident thereto.
   C. Contractor’s investigations shall consider fully the fact that Existing Conditions Data is in many cases based on information furnished to Owner by others (e.g., the prior owner or builders), and that due to their age or their chain of custody since preparation, may not meet current industry standards for accuracy. Contractor shall also: (i.) provide Owner with prompt written notice of all conflicts, errors, ambiguities, or discrepancies of any type, that it discovered in or among the
Contract Documents and the Existing Conditions Data, and (ii.) subject to Owner's approval, conduct any such additional or supplementary examinations, investigations, explorations, tests, studies and data compilations, concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site or otherwise, which Contractor may deem necessary in order to perform and furnish the Work in accordance with the terms and conditions of Contract Documents.

D. During performance of the Contract, Contractor will be charged with knowledge of all information that it should have learned in performing these pre-bid investigations and other obligations, and shall not be entitled to Change Orders (time or compensation) due to any information, error, inconsistency, omission, or conditions that Contractor should have known as a part of this Work. Contractor shall be responsible for the resultant losses, including, without limitation, the cost of correcting Defective Work.

2.02 Limited Reliance Permitted On Owner's Existing Conditions Data

A. Regarding aboveground and as-built conditions shown on the Contract Documents or supplied by Owner, such information has been compiled in good faith, however, Owner does not expressly or impliedly warrant or represent that such information is correctly shown or indicated, or otherwise complete for construction purposes. Contractor must independently verify such information as part of its pre-bid investigations, and where conditions are not reasonably verifiable or discrepancies are identified, bring such matters to Owner's attention through written question issued during the bid period. In executing Document 00 5200 (Agreement), Contractor shall rely on the results of its own independent investigation and shall not rely on Owner-supplied information regarding aboveground conditions and as-built conditions, and Contractor shall accept full responsibility for its verification work sufficient to complete the Work as intended.

B. Regarding subsurface conditions other than Underground Facilities shown on the Contract Documents or otherwise supplied by Owner, Contractor may rely only upon the general accuracy of actual reported depths, actual reported character of materials, actual reported soil types, actual reported water conditions, or actual obstructions shown or indicated in the Contract Documents. Owner is not responsible for the completeness of any subsurface condition information, Contractor's conclusions or opinions drawn from any subsurface condition information, or subsurface conditions that are not specifically shown. (For example, Owner is not responsible for soil conditions in areas contiguous to areas where a subsurface condition is shown.)

2.03 Pre-Bid Investigation Requirements For Excavation And Utilities Relocation Projects

A. As part of its pre-bid investigations for Projects involving excavation and/or relocation of existing utilities, Contractor shall make reasonable efforts to verify information regarding Underground Facilities, including but not limited to, requesting additional information or verification of information as necessary.

B. Because of the nature and location of Owner and the Project, the existence of Underground Facilities is deemed inherent in the Work of the Contract, as is the fact that Underground Facilities are not always accurately shown or completely shown on as-built records, both as to their depth and location. Contractor shall, therefore, take care to note the existence and potential existence of Underground Facilities, in particular, above and below grade structures, drainage lines, storm drains, sewers, water, gas, electrical, chemical, hot water, and other similar items and utilities. Contractor shall carefully consider all supplied information, request additional information Contractor may deem necessary, and visually inspect the Site for above ground indications of Underground Facilities (such as, for example not by way of limitation, the existence of existing service laterals, appurtenances or other types of utilities, indicated by the presence of an underground transmission main or other visible facilities, such as buildings, new asphalt, meters and junction boxes, on or adjacent to the Site). Contractor shall also consider local underground conditions and typical practices for Underground Facilities, either through its own direct knowledge or through its subcontractors, and fully consider this knowledge in assessing the existing information and the reasonableness of its reliance.
ARTICLE 3 - SUBCONTRACTORS

3.01 Subcontractor Listing Law
A. Contractor shall comply with the Subcontractor Listing law, California Public Contract Code §§4101 et seq. Contractor shall not substitute any other person or firm in place of any Subcontractor listed in the Bid except as may be allowed by law.
B. Subcontractors shall not assign or transfer their subcontracts or permit them to be performed by any other contractor without Owner’s written approval. At Owner’s request, Contractor shall provide Owner with a complete copy of all executed subcontracts or final commercial agreements with Subcontractors and/or suppliers.

3.02 Subcontracts
A. Subcontract agreements shall preserve and protect the rights of Owner under the Contract Documents so that subcontracting will not prejudice such rights. To the extent of the Work to be performed by a Subcontractor, Contractor shall require the Subcontractor’s written agreement (1) to be bound to the terms of Contract Documents and (2) to assume vis-à-vis Contractor all the obligations and responsibilities that Contractor assumes toward Owner under the Contract Documents. (These agreements include for example, and not by way of limitation, all warranties, claims procedures and rules governing submittals of all types to which Contractor is subject under the Contract Documents.)
B. Contractor shall provide for the assignment to Owner of all rights any Subcontractor (of any tier) may have against any manufacturer, supplier, or distributor for breach of warranties and guarantees relating to the Work performed by the Subcontractor under the Contract Documents. Subcontracts shall provide and acknowledge Owner as an intended third-party beneficiary of each subcontract and supply contract (of any tier).

ARTICLE 4 - DRAWINGS AND SPECIFICATIONS

4.01 Intent Of Drawings And Specifications
A. Contractor shall interpret words or phrases used to describe Work (including services), materials, or equipment that have well-known technical or construction industry or trade meaning in accordance with that meaning. Drawings’ intent specifically includes the intent to depict construction that complies with all applicable laws, codes and standards.
B. As part of the “Work,” Contractor shall provide all labor, materials, equipment, machinery, tools, facilities, services, employee training and testing, hoisting facilities, Shop Drawings, storage, testing, security, transportation, disposal, the securing of all necessary or required field dimensions, the cutting or patching of existing materials, notices, permits, documents, reports, agreements and any other items required or necessary to timely and fully complete Work described and the results intended by Contract Documents and, in particular, Drawings and Specifications. Divisions and Specification Sections and the identification on any Drawings shall not control Contractor in dividing Work among Subcontractors or suppliers or delineating the Work to be performed by any specific trade.
C. Contractor shall perform reasonably implied parts of Work as “incidental work” although absent from Drawings and Specifications. Incidental work includes any work not shown on Drawings or described in Specifications that is necessary or normally or customarily required as a part of the Work shown on Drawings or described in Specifications. Incidental work includes any work necessary or required to make each installation satisfactory, legally operable, functional, and consistent with the intent of Drawings and Specifications or the requirements of Contract Documents. Contractor shall perform incidental work without extra cost to Owner. Incidental work shall be treated as if fully described in Specifications and shown on Drawings, and the expense of incidental work shall be included in price Bid and Contract Sum.

4.02 Checking Of Drawings And Specifications
A. Before undertaking each part of Work, Contractor shall carefully study and compare Contract Documents and check and verify pertinent figures shown in the Contract Documents and all applicable field measurements. Contractor shall be responsible for any errors that might have
been avoided by such comparison. Figures shown on Drawings shall be followed; Contractor shall not scale measurements. Contractor shall promptly report to Owner, in writing, any conflict, error, ambiguity or discrepancy that Contractor may discover. Contractor shall obtain a written interpretation or clarification from Owner before proceeding with any Work affected thereby. Contractor shall provide Owner with a follow-up correspondence every ten Days until it receives a satisfactory interpretation or clarification.

4.03 Interpretation Of Drawings And Specifications

A. A typical or representative detail on Drawings shall constitute the standard for workmanship and material throughout corresponding parts of Work. Where necessary, and where reasonably inferable from Drawings, Contractor shall adapt such representative detail for application to such corresponding parts of Work. The details of such adaptation shall be subject to prior approval by Owner. Repetitive features shown in outline on Drawings shall be in exact accordance with corresponding features completely shown.

B. Should any discrepancy appear or any misunderstanding arise as to the import of anything contained in Drawings and Specifications, or should Contractor have any questions or requests relating to Drawings or Specifications, Contractor shall refer the matter to Owner, in writing, with a copy to the Architect/Engineer. Owner will issue with reasonable promptness written responses, clarifications or interpretations as Owner may determine necessary, which shall be consistent with the intent of and be reasonably inferable from Contract Documents. Such written clarifications or interpretations shall be binding upon Contractor. If Contractor believes that a written response, clarification or interpretation justifies an adjustment in the Contract Sum or Contract Time, Contractor shall give Owner prompt written notice. If the parties are unable to agree to the amount or extent of the adjustment, if any, then Contractor shall perform the Work in conformance with Owner's response, clarification, or interpretation and may make a written claim for the adjustment as provided in Article 12.

C. The following general specifications shall apply wherever in the Specifications, or in any directions given by Owner in accordance with or supplementing Specifications, it is provided that Contractor shall furnish materials or manufactured articles or shall do Work for which no detailed specifications are shown. Materials or manufactured articles shall be of the best grade, in quality and workmanship, obtainable in the market from firms of established good reputation. If not ordinarily carried in stock, the materials or manufactured articles shall conform to industry standards for first class materials or articles of the kind required, with due consideration of the use to which they are to be put. Work shall conform to the usual standards or codes, such as those cited herein, for first class work of the kind required. Contractor shall specify in writing to Owner the materials to be used or Work to be performed under this Paragraph ten Business Days prior to furnishing such materials or performing such Work.

4.04 Use Of Drawings And Specifications.

A. Drawings, Specifications and other Contract Documents were prepared for use for Work of Contract Documents only. No part of Contract Documents shall be used for any other construction or for any other purpose except with the written consent of Owner. Any unauthorized use of Contract Documents is prohibited and at the sole liability of the user.

ARTICLE 5 - COMMENCEMENT OF THE WORK

5.01 Submission Of Required Schedules

A. Contractor shall submit to Owner in draft for review and discussion at the Preconstruction Conference, and in final prior to the first payment application, the following schedules:

1. Schedule of Values
2. Progress Schedule, and

B. No progress payment shall be due or owing to Contractor until such schedules are submitted to and acceptable to Owner and/or Architect/Engineer as meeting the requirements of the Contract
Documents. In Owner’s sole discretion, Owner may elect to instead withhold a portion of any progress payment for unacceptable compliance with contract requirements for such schedules.

C. Owner’s acceptance of Contractor’s schedules will not create any duty of care or impose on Owner any responsibility for the sequencing, scheduling or progress of Work nor will it interfere with or relieve Contractor from Contractor’s full responsibility therefore.

5.02 Commencement Date Of Contract Time

A. The Contract Time will commence to run on the 60th Day after the issuance of the Notice of Award or, if a Notice to Proceed is given, on the date indicated in the Notice to Proceed.

B. Owner may give a Notice to Proceed at any time within 60 Days after the Notice of Award. Contractor shall not do any Work at the Site prior to the date on which the Contract Time commences to run.

ARTICLE 6 - CONTRACTOR’S ORGANIZATION AND EQUIPMENT

6.01 Contractor’s Legal Address

A. Address and facsimile number given in Contractor’s Bid are hereby designated as Contractor’s legal address and facsimile number. Contractor may change its legal address and facsimile number by notice in writing, delivered to Owner, which in conspicuous language advises Owner of a change in legal address or facsimile number, and which Owner accepts in writing. Delivery of Contractor’s legal address or depositing in any post office or post office box regularly maintained by the United States Postal Service, in a wrapper with postage affixed, directed to Contractor at legal address, or of any drawings, notice, letter or other communication, shall be deemed legal and sufficient service thereof upon Contractor. Facsimile to Contractor’s designated facsimile number of any letter, memorandum, or other communication on standard or legal sized paper, with proof of facsimile transmission, shall be deemed legal and sufficient service thereof upon Contractor.

6.02 Contractor’s Superintendents Or Forepersons

A. Contractor shall at all times be represented on Site by one or more superintendents or forepersons authorized and competent to receive and carry out any instructions that Owner may give, and shall be liable for faithful observance of instructions delivered to Contractor or to authorized representative or representatives on Site.

6.03 Proficiency In English

A. Supervisors, security guards, safety personnel and employees who have unescorted access to the Site shall possess proficiency in the English language in order to understand, receive and carry out oral and written communications or instructions relating to their job functions, including safety and security requirements.

6.04 Contractor’s And Subcontractors’ Employees

A. Contractor shall employ, and shall permit its Subcontractors to employ, only competent and skillful personnel to do Work. If Owner notifies Contractor that any of its employees, or any of its Subcontractors’ employees on Work is incompetent, unfaithful, disorderly or profane, or fails to observe customary standards of conduct or refuses to carry out any provision of the Contract Documents, or uses threatening or abusive language to any person on Work representing Owner, or violates sanitary rules, or is otherwise unsatisfactory, and if Owner requests that such person be discharged from Work, then Contractor or its Subcontractor shall immediately discharge such person from Work and the discharged person shall not be re-employed on the Work except with consent of Owner.

6.05 Contractor’s Use Of The Site

A. Contractor shall not make any arrangements with any person to permit occupancy or use of any land, structure or building within the limits of the Work, for any purpose whatsoever, either with or without compensation, in conflict with any agreement between Owner and any Owner, former Owner or tenant of such land, structure or buildings. Contractor may not occupy Owner-owned
property outside the limit of the Work as indicated on the Drawings unless it obtains prior approval from Owner.

6.06 **Contractor’s Site Office**

A. Unless expressly provided otherwise in the Contract Documents, Contractor shall provide a site office staffed by a resident project manager or job superintendent.

**ARTICLE 7 - OWNER’S ADMINISTRATION OF WORK**

7.01 **Owner’s Representative(s)**

A. Owner’s Representative(s) will have limited authority to act on behalf of Owner as set forth in the Contract Documents.

B. Except as otherwise provided in these Contract Documents or subsequently identified in writing by Owner, Owner will issue all communications to Contractor through Owner’s Representative, and Contractor shall issue all communications to Owner through Owner’s Representative in a written document delivered to Owner.

C. Should any direct communications between Contractor and Owner’s consultants, architects or engineers not identified in Article 2 of Document 00 5200 (Agreement) occur during field visits or by telephone, Contractor shall immediately confirm them in a written document copied to Owner.

7.02 **Owner’s Observation Of The Work**

A. Work shall be performed under Owner’s general observation and administration. Contractor shall comply with Owner’s directions and instructions in accordance with the terms of Contract Documents, but nothing contained in these General Conditions shall be taken to relieve Contractor of any obligations or liabilities under the Contract Documents. Owner’s failure to review or, upon review, failure to object to any aspect of Work reviewed, shall not be deemed a waiver or approval of any non-conforming aspect of Work.

B. Subject to those rights specifically reserved in the Contract Documents, Owner will not supervise, or direct, or have control over, or be responsible for, Contractor’s means, methods, techniques, sequences or procedures of construction, or the safety precautions and programs incident thereto, or Contractor’s failure to comply with laws and regulations applicable to the furnishing or performance of Work. Owner will not be responsible for Contractor’s failure to perform or furnish the Work in accordance with Contract Documents.

7.03 **Architect/Engineer’s Observation Of Work**

A. Owner may engage an Architect/Engineer, an independent consultant or Project Manager (collectively for purposes of this Paragraph, “Project Manager/Architect”) to assist in administering the Work. If so engaged, Project Manager/Architect will advise and consult with Owner, but will have authority to act on behalf of Owner only to extent provided in the Contract Documents or as set forth in writing by Owner. Project Manager/Architect will not be responsible for and will not have control or charge of construction means, methods, techniques, sequences or procedures of construction, or for safety precautions and programs in connection with Work. Project Manager/Architect will not be responsible for or have control over the acts or omissions of Contractor, Subcontractors or their agents or employees, or any other persons performing Work.

B. Project Manager/Architect may review Contractor’s Submittals, such as Shop Drawings, Product Data, and Samples, but only for conformance with design concept of Work and with information given in the Contract Documents.

C. Project Manager/Architect may visit the Site at intervals appropriate to stage of construction to become familiar generally with the progress and quality of Work and to determine in general if Work is proceeding in accordance with Contract Documents. Based on its observations, Project Manager/Architect may recommend to Owner that it disapproves or rejects Work that Project Manager/Architect believes to be Defective or will not produce a complete Project that conforms to Contract Documents or will prejudice the integrity of the design concept of the completed Project as a functioning whole as indicated by Contract Documents. Owner will also have authority to require special inspection or testing of Work, whether or not the Work is fabricated, installed or completed.

General Conditions 00 7200 - 6
Merritt College Science Building Site Paving
D. Project Manager/Architect may conduct inspections to recommend to Owner the dates that Contractor has achieved Substantial Completion and Final Acceptance, and will receive and forward to Owner for review written warranties and related documents required by Contract Documents.

7.04 Owner’s And Architect/Engineer's Exercise Of Contract Responsibilities
A. Owner, Project Manager, Architect/Engineer and all Owner’s representatives, in performing their duties and responsibilities under the Contract Documents, accept no duties, responsibilities or duty of care, nor may the same be implied or inferred, towards Contractor, any Subcontractor, sub-Subcontractor or supplier, except those set forth expressly in the Contract Documents.

7.05 Owner's Right Of Access To The Work
A. During performance of Work, Owner and its agents, consultants, and employees may at any time enter upon Work, shops or studios where any part of the Work may be in preparation, or factories where any materials for use in Work are being or are to be manufactured, and Contractor shall provide proper and safe facilities for this purpose, and shall make arrangements with manufacturers to facilitate inspection of their processes and products to such extent as Owner’s interests may require. Other contractors performing work for Owner may also enter upon Work for all purposes required by their respective contracts. Subject to the rights reserved in the Contract Documents, Contractor shall have sole care, custody, and control of the Site and its Work areas.

7.06 Owner’s Right Of Separate Construction
A. Owner may perform with its own forces, construction or operations related to the Project, or the Site during Contractor's operations. Owner may also award separate contracts in connection with other portions of the Project or other construction or operations, on the Site or areas contiguous to the Site, under conditions similar to these Contract Documents, or may have utility Owners perform other work.
B. Contractor shall adjust its schedule and fully coordinate with and shall afford all other contractors, utility districts and Owner (if Owner is performing work with its own forces), proper and safe access to the Site, and reasonable opportunity for the installation and storage of their materials. Contractor shall ensure that the execution of its Work properly connects and coordinates with others’ work, do all cutting, fitting and patching of the Work that may be required to make its several parts come together properly and integrate with such other work, and shall cooperate with them to facilitate the progress of the Work.
C. To the extent that any part of Contractor’s Work is to interface with work performed or installed by other contractors or utility owners, Contractor shall inspect and measure the in-place work. Contractor shall promptly report to Owner in writing any defect in in-place work that will impede or increase the cost of Contractor’s interface unless corrected.

ARTICLE 8 - CONTRACTOR'S PROSECUTION AND PROGRESS OF THE WORK
8.01 Contractor To Supervise The Work
A. Subject to those rights specifically reserved in the Contract Documents, Contractor shall supervise, direct, have control over, and be responsible for, Contractor's means, methods, techniques, sequences or procedures of construction, safety precautions and programs incident thereto, and compliance with laws and regulations applicable to the furnishing or performance of Work.
B. Contractor shall keep on the Site at all times during Work progress a competent resident Superintendent, who shall not be replaced without Owner's express written consent. The Superintendent shall be Contractor's representative at the Site and shall have complete authority to act on behalf of Contractor. All communications to and from the Superintendent shall be as binding as if given to or by Contractor.
C. Contractor shall supervise, inspect, and direct Work competently and efficiently, devoting the attention and applying such personal skills and expertise as may be required and necessary to perform Work in accordance with Contract Documents. Contractor shall be solely responsible for
and have control and charge of construction means, methods, techniques, sequences and procedures, safety precautions and programs in connection with the Work. Contractor shall be responsible to see that the completed Work complies accurately with Contract Documents.

D. Contractor is fully responsible for Contractor's own acts and omissions. Contractor is responsible for all acts and omissions of its Subcontractors, suppliers, and other persons and organizations performing or furnishing any of the Work, labor, materials, or equipment under a direct or indirect contract with Contractor.

E. Contractor shall conduct monthly Contractor Safety Committee meetings, and weekly toolbox safety talks.

8.02 Contractor To Maintain Cost Data

A. Contractor shall maintain full and correct information as to the number of workers employed in connection with each subdivision of Work, the classification and rate of pay of each worker in form of certified payrolls, the cost to Contractor of each class of materials, tools and appliances used by Contractor in Work, and the amount of each class of materials used in each subdivision of Work. Contractor shall provide Owner with monthly summaries of this information. If Contractor maintains or is capable of generating summaries or reports comparing actual Project costs with Bid estimates or budgets, Contractor shall provide Owner with a copy of such report upon Owner's request.

B. Contractor shall maintain daily job reports recording all significant activity on the job, including the number of workers on Site, Work activities, problems encountered and delays. Contractor shall provide Owner with copies for each Day Contractor works on the Project, to be delivered to Owner either the same Day or the following morning before starting work at the Site. Contractor shall take pre-construction and monthly progress photographs of all areas of the Work. Contractor shall maintain copies of all correspondence with Subcontractors and records of meetings with Subcontractors.

C. Owner shall have the right to audit and copy Contractor's books and records of any type, nature or description relating to the Project (including but not limited to financial records reflecting in any way costs claimed on the Project), and to inspect the Site, including Contractor's trailer, or other job Site office, and this requirement shall be contained in the subcontracts of Subcontractors working on Site. By way of example, Owner shall have the right to inspect and obtain copies of all Contract Documents, planning and design documents, Bid proposal and negotiation documents, cost records and job cost variance reports, design modification proposals, value engineering or other cost reduction proposals, revisions made to the original design, job progress reports, photographs, and as-built drawings maintained by Contractor. Owner and any other applicable governmental entity shall have the right to inspect all information and documents maintained hereunder at any time during the Project and for a period of five years following Final Completion, in accordance with the provisions of Section 8546.7 of the California Government Code. This right of inspection shall not relieve Contractor of its duties and obligations under the Contract Documents. This right of inspection shall be specifically enforceable in a court of law, either independently or in conjunction with enforcement of any other rights in the Contract Documents.

8.03 Contractor To Supply Sufficient Workers And Materials

A. Unless otherwise required by Owner under the terms of Contract Documents, Contractor shall at all times keep on the Site materials and employ qualified workers sufficient to prosecute Work at a rate and in a sequence and manner necessary to complete Work within the Contract Time. This obligation shall remain in full force and effect notwithstanding disputes or claims of any type.

B. At any time during progress of Work should Contractor directly or indirectly (through Subcontractors) refuse, neglect, or be unable to supply sufficient materials or employ qualified workers to prosecute the Work as required, then Owner may require Contractor to accelerate the Work and/or furnish additional qualified workers or materials as Owner may consider necessary, at no cost to Owner. If Contractor does not comply with the notice within three Business Days of date of service thereof, Owner shall have the right (but not a duty) to provide materials and qualified workers to finish the Work or any affected portion of Work, as Owner may elect. Owner may, at its discretion, exclude Contractor from the Site, or portions of the Site or separate work
elements during the time period that Owner exercises this right. Owner will deduct from moneys due or which may thereafter become due under the Contract Documents, the sums necessary to meet expenses thereby incurred and paid to persons supplying materials and doing Work. Owner will deduct from funds or appropriations set aside for purposes of Contract Documents the amount of such payments and charge them to Contractor as if paid to Contractor. Contractor shall remain liable for resulting delay, including liquidated damages and indemnification of Owner from claims of others.

C. Exercise by Owner of the rights conferred upon Owner in this subparagraph is entirely discretionary on the part of Owner. Owner shall have no duty or obligation to exercise the rights referred to in this subparagraph and its failure to exercise such rights shall not be deemed an approval of existing Work progress or a waiver or limitation of Owner’s right to exercise such rights in other concurrent or future similar circumstances. (The rights conferred upon Owner under this subparagraph are, like all other such rights, cumulative to Owner’s other rights under any provision of the Contract Documents.)

8.04 Contractor To Maintain Project Record Documents

A. Contractor shall maintain in a safe place at the Site one record copy of all Drawings, Specifications, Addenda, Contract Modifications, Change Orders, Work Directives, Force Account orders, and written interpretations and clarifications in good order and annotated to show all as-built changes made during construction. These Project Record Documents, together with all approved Samples and a counterpart of all approved Shop Drawings, shall be maintained and available to Owner for reference. Upon completion of the Work, Contractor shall deliver to Owner, the Project Record Documents, Samples and Shop Drawings and as-built drawings.

B. Throughout Contractor’s performance of the Work of the Project, Contractor shall maintain construction records to include: shop drawings; product data/material data sheets; samples; submittal; purchases; materials; equipment; inspections; applicable handbooks; applicable codes and standards; maintenance and operating manuals and instructions; RFI Log; Submittal Log; other related documents and revisions which arise out of the Construction Contracts. Contractor shall maintain records of principal building layout lines, elevations for the bottom of footings, floor levels, and key site elevations (certified by a qualified surveyor or professional engineer). Contractor shall make all records available to Owner. At the completion of the Project, Contractor shall deliver all such records to the Owner to have a complete set of record as-built drawings.

8.05 Contractor To Not Disrupt Owner Operation

A. Contractor shall schedule and execute all Work in a manner that does not interfere with or disrupt Owner operations, including but not limited to, parking, utilities (electricity, gas, water), noise, access by employees and administration, access by vendors, physicians, patients and any other person or entity using Owner facilities or doing business with Owner. Contractor shall produce and supply coordination plans and requests to Owner, following Owner procedures, for all necessary interference of construction with Owner, which Owner will reasonably cooperate with.

8.06 Contractor To Provide Temporary Facilities And Controls

A. Unless expressly provided otherwise in the Contract Documents, Contractor shall provide all temporary utilities (including without limitation electricity, water, natural gas), lighting, heating, cooling and ventilating devices, telephone, sanitary facilities, barriers, fences and enclosures, tree and plant protection, fire protection, pollution, erosion, Storm Water Pollution Prevention controls, noise and traffic control, and any other necessary services required for construction, testing or completion of the Work.

ARTICLE 9 - WARRANTY, GUARANTY, AND INSPECTION OF WORK

9.01 Warranty And Guaranty

A. General Representations and Warranties: Contractor represents and warrants that it is and will be at all times fully qualified and capable of performing every Phase of the Work and to complete Work in accordance with the terms of Contract Documents. Contractor warrants that all construction services shall be performed in accordance with generally accepted professional
standards of good and sound construction practices and all requirements of Contract Documents. Contractor warrants that Work, including but not limited to each item of materials and equipment incorporated therein, shall be new, of suitable grade of its respective kind for its intended use, and free from defects in design, engineering, materials, construction and workmanship. Contractor warrants that Work shall conform in all respects with all applicable requirements of federal, state and local laws, applicable construction codes and standards, licenses, and permits, Drawings and Specifications and all descriptions set forth therein, and all other requirements of Contract Documents. Contractor shall not be responsible, however, for the negligence of others in the specification of specific equipment, materials, design parameters and means or methods of construction where that is specifically shown and expressly required by Contract Documents.

B. Extended Guarantees: Any guarantee exceeding one year provided by the supplier or manufacturer of any equipment or materials used in the Project shall be extended for such term. Contractor expressly agrees to act as co-guarantor of such equipment and materials and shall supply Owner with all warranty and guarantee documents relative to equipment and materials incorporated in the Project and guaranteed by their suppliers or manufacturers.

C. Environmental and Toxics Warranty: The covenants, warranties and representations contained in this Paragraph are effective continuously during Contractor's Work on the Project and following cessation of labor for any reason including, but not limited to, Project completion. Contractor covenants, warrants and represents to Owner that:

1. To Contractor's knowledge after due inquiry, no lead or Asbestos-containing materials were installed or discovered in the Project at any time during Contractor's construction thereof. If any lead or Asbestos-containing materials were discovered, Contractor made immediate written disclosure to Owner.

2. To Contractor's knowledge after due inquiry, no electrical transformers, light fixtures with ballasts or other equipment containing PCBs are or were located on the Project at any time during Contractor's construction thereof.

3. To Contractor's knowledge after due inquiry, no storage tanks for gasoline or any other toxic substance are or were located on the Project at any time during Contractor's construction thereof. If any such materials were discovered, Contractor made immediate written disclosure to Owner.

4. Contractor's operations concerning the Project are and were not in violation of any applicable environmental federal, state, or local statute, law or regulation dealing with hazardous materials substances or toxic substances and no notice from any governmental body has been served upon Contractor claiming any violation of any such law, ordinance, code or regulation, or requiring or calling attention to the need for any Work, repairs, construction, alteration, or installation on or in connection with the Project in order to comply with any such laws, ordinances, codes, or regulations, with which Contractor has not complied. If there are any such notices with which Contractor has complied, Contractor shall provide Owner with copies thereof.

9.02 Inspection Of Work

A. Work and materials, and manufacture and preparation of materials, from beginning of construction until Final Completion and acceptance of Work, shall be subject to inspection and rejection by Owner, its agents, representatives or independent contractors retained by Owner to perform inspection services, or governmental agencies with jurisdictional interests. Contractor shall provide them proper and safe conditions for such access and advise them of Contractor's Site safety procedures and program so that they may comply therewith as applicable. Upon request or where specified, Owner shall be afforded access for inspection at the source of supply, manufacture or assembly of any item of material or equipment, with reasonable accommodations supplied for making such inspections.

B. Contractor shall furnish, in such quantities and sizes as may be required for proper examination and tests, Samples or test specimens of all materials to be used or offered for use in connection with Work. Contractor shall prepare Samples or test specimens at its expense and furnish them to Owner. Contractor shall submit all Samples in ample time to enable Owner to make any
necessary tests, examinations, or analyses before the time it is desired to incorporate the material into the Work.

C. Contractor shall give Owner timely notice of readiness of Work for all required inspections, tests or approvals, and shall cooperate with inspection and testing personnel to facilitate required inspections or tests.

D. If applicable laws or regulations of any public body having jurisdiction require any Work (or part thereof) specifically to be inspected, tested or approved by an employee or other representative of such public body, Contractor shall assume full responsibility for arranging and obtaining such inspections, tests or approvals, and furnish Owner with the required certificates of inspection, or approval. Owner will pay the cost of initial testing and Contractor shall pay all costs in connection with any follow-up or additional testing. Contractor shall also be responsible for arranging and obtaining and shall pay all costs in connection with any inspections, tests or approvals required for the acceptance of materials or equipment to be incorporated in the Work, or of materials, mix designs, or equipment submitted for approval prior to Contractor's purchase thereof for incorporation in the Work.

E. If Contractor covers any Work, or the work of others, prior to any required inspection, test or approval without written approval of Owner, Contractor shall uncover the Work at Owner's request. Contractor shall bear the expense of uncovering Work and replacing Work. In any case where Contractor covers Work contrary to Owner's request, Contractor shall uncover Work for Owner's observation or inspection at Owner's request. Contractor shall bear the cost of uncovering Work.

F. Whenever required by Owner, Contractor shall furnish tools, labor and materials necessary to make examination of Work that may be completed or in progress, even to extent of uncovering or taking down portions of finished Work. Should Work be found unsatisfactory, cost of making examination and of reconstruction shall be borne by Contractor. If Work is found to be satisfactory, Owner, in manner herein prescribed for paying for alterations, Modifications, and extra Work, except as otherwise herein specified, will pay for examination.

G. Inspection of the Work by or on behalf of Owner, or Owner's failure to do so, shall not under any circumstances be deemed a waiver or approval of any non-conforming aspect of the Work. Contractor shall have an absolute duty, in the absence of a written Change Order signed by Owner, to perform Work in conformance with the Contract Documents and to immediately correct Defective Work immediately upon Contractor's knowledge.

H. Any inspection, evaluation, or test performed by or on behalf of Owner relating to the Work is solely for the benefit of Owner, and shall not be relied upon by Contractor. Contractor shall not be relieved of the obligation to perform Work in accordance with the Contract Documents, nor relieved of any guaranty, warranty, or other obligation, as a result of any inspections, evaluations, or tests performed by Owner, whether or not such inspections, evaluations, or tests are permitted or required under the Contract Documents. Contractor shall be solely responsible for testing and inspecting Work already performed to determine whether such Work is in proper condition to receive later Work.

9.03 Correction Of Defective Work

A. Owner may direct Contractor to correct any Defective Work or remove it from the Site and replace it with Work that is not Defective and satisfactorily correct or remove and replace any damage to other Work or the work of others resulting from the correction or removal. Contractor shall be responsible for any and all claims, costs, losses and damages caused by or resulting from such correction or removal. A Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work and the Contract Sum. If the parties are unable to agree to the amount of an appropriate decrease in the Contract Sum, Owner may decide the proper amount or, in its discretion may elect to leave the Contract Sum unchanged and deduct from monies due Contractor, all such claims, costs, losses and damages caused by or resulting from the correction or removal. If Contractor disagrees with Owner's calculations, it may make a claim as provided in Article 12 of this Document 00 7200. Owner's rights under this Paragraph shall be in addition to any other rights it may have under the Contract Documents or by law.

B. If Contractor fails to supply sufficient skilled workers, suitable materials or equipment, or to furnish or perform the Work in such a way that the completed Work will conform to Contract Documents,
Owner may order Contractor to replace any such Defective Work, or stop any portion of Work to permit Owner (at Contractor’s expense) to replace such Defective Work. These Owner rights are entirely discretionary on the part of Owner, and shall not give rise to any duty on the part of Owner to exercise the rights for the benefit of Contractor or any other party.

9.04 Acceptance And Correction Of Defective Work By Owner

A. Owner may in its sole discretion elect to accept Defective Work. Contractor shall pay all claims, costs, losses and damages attributable to Owner’s evaluation of and determination to accept such Defective Work. If Owner accepts any Defective Work prior to final payment, a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work and the Contract Sum. If the parties are unable to agree to the amount of an appropriate decrease in the Contract Sum, Owner may deduct from monies due Contractor, all claims, costs, losses, damages, expenses and liabilities attributable to the Defective Work. If Contractor disagrees with Owner’s calculations, Contractor may make a claim as provided in Article 12 of this Document 00 7200. If Owner accepts any Defective Work after final payment, Contractor shall pay to Owner, an appropriate amount as determined by Owner.

B. Owner may correct and remedy deficiency if, after five Days’ written notice to Contractor, Contractor fails to correct Defective Work or to remove and replace rejected Work; or provide a plan for correction of Defective Work acceptable to Owner; or perform Work in accordance with Contract Documents. In connection with such corrective and remedial action, Owner may exclude Contractor from all or part of the Site; take possession of all or part of Work and suspend Contractor’s Work related thereto; take possession of all or part of Contractor’s tools, appliances, construction equipment and machinery at the Site; and incorporate in Work any materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere. Contractor shall allow Owner, its representatives, agents, employees, and other contractors and Project Manager/Architect’s consultants’ access to the Site to enable Owner to exercise the rights and remedies under this Paragraph. Contractor shall be responsible for all claims, costs, losses, damages, expenses and liabilities incurred or sustained by Owner in exercising such rights and remedies. A Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to Work and the Contract Sum. If the parties are unable to agree to the amount of an appropriate decrease in the Contract Sum, Owner may deduct from moneys due Contractor, all claims, costs, losses and damages caused by or resulting from the correction or removal. If Contractor disagrees with Owner’s calculations, Contractor may make a claim as provided in Article 12.

9.05 Rights Upon Inspection, Correction Or Acceptance

A. Contractor shall not be allowed an extension of Contract Time because of any delay in the performance of Work attributable to the exercise by Owner of its rights and remedies under this Article. Where Owner exercises its rights under this Article, it retains and may still exercise all other rights it has by law or under the Contract Documents including, but not limited to, the right to terminate Contractor’s right to proceed with the Work under the Contract Documents for cause and/or make a claim or back charge where a Change Order cannot be agreed upon.

B. Inspection by Owner or its authorized agents or representatives shall not relieve Contractor of its obligation to have furnished material and workmanship in accordance with Contract Documents. Payment for Work completed through periodic progress payments, final payment or otherwise shall not operate to waive Owner’s right to require full compliance with Contract Documents and shall in no way be deemed as acceptance of any defective Work paid therefor. Contractor’s obligation to complete the Work in accordance with Contract Documents shall be absolute, unless Owner agrees otherwise in writing.


A. In order that Owner may determine whether Contractor has complied or is complying with requirements of Contract Documents not readily enforceable through inspection and tests of Work and materials, Contractor shall at any time, when requested, submit to Owner properly authenticated documents or other satisfactory proofs of compliance with all applicable requirements.
B. Before commencing any portion of Work, Contractor shall inform Owner in writing as to time and place at which Contractor wishes to commence Work, and nature of Work to be done, in order that proper provision for inspection of Work may occur, and to assure measurements necessary for record and payment. Information shall be given to Owner a reasonable time in advance of time at which Contractor proposes to begin Work, so that Owner may complete necessary preliminary work without inconvenience or delay to Contractor.

9.07 Correction Period And Project Warranty Period:
A. If within one year after the date of Final Acceptance, or such longer period of time as may be prescribed by laws, regulations or by the terms of Contract Documents or any extended warranty or guaranty, any Work (completed or incomplete) is found to be Defective, Contractor shall promptly without cost to Owner and in accordance with Owner’s written instructions, correct such Defective Work. Contractor shall remove any Defective Work rejected by Owner and replace it with Work that is not Defective, and satisfactorily correct or remove and replace any damage to other Work or the work of others resulting therefrom. If Contractor fails to promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk of loss or damage, Owner may have the Defective Work corrected or the rejected Work removed and replaced. Contractor shall pay for all claims, costs, losses and damages caused by or resulting from such removal and replacement. Where Contractor fails to correct Defective Work, or defects are discovered outside the correction period, Owner shall have all rights and remedies granted by law.

B. In special circumstances where a part of the Work is occupied or a particular item of equipment is placed in continuous service before Final Acceptance of all the Work, the correction period for that part of Work or that item may start to run from an earlier date if so provided by Change Order.

C. Where Defective Work or rejected Work (and damage to other Work resulting therefrom) has been corrected, removed, or replaced under this provision after the commencement of the correction period, the correction period hereunder with respect to such Work shall be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.

9.08 No Waiver
A. Neither recordation of Final Acceptance nor final certificate for payment nor provision of the Contract nor partial or entire use or occupancy of premises by Owner shall constitute acceptance of Work not done in accordance with Contract Documents nor relieve Contractor of liability in respect to express warranties or responsibility for faulty materials or workmanship.

B. If, after installation, operation, or use of materials or equipment to be provided under Contract proves to be unsatisfactory to Owner, Owner shall have right to operate and use materials or equipment until said materials and equipment can, without damage to Owner, be taken out of service for correction or replacement. Period of use of Defective materials or equipment pending correction or replacement shall in no way decrease guarantee period required for acceptable corrected or replaced items of materials or equipment.

C. Nothing in the Contract Documents shall be construed to limit, relieve, or release Contractor’s, Subcontractors’, and equipment suppliers’ liability to Owner for damages sustained as result of latent defects in materials or equipment caused by negligence of Contractor, its agents, suppliers, employees, or Subcontractors.

ARTICLE 10 - MODIFICATIONS OF CONTRACT DOCUMENTS

10.01 Owner’s Right To Direct Changed Work.
A. Owner may, without notice to the sureties and without invalidating the Contract, make changes in the Work ("Changed Work"), including without limitation: alterations, deviations, additions to, or deletions from Contract Documents; increase or decrease the quantity of any item or portion of the Work; expand, reduce or otherwise change the Contract Time; delete any item or portion of the Work; and require extra Work. Contractor shall perform such Work under applicable provisions of the Contract Documents, unless specifically provided otherwise at the time the
change is ordered. In the case of any ordered extra Work, Owner reserves the right to furnish all or portions of associated labor, material, and equipment, which Contractor shall accept and use without payment for costs, markup, profit, or otherwise for such Owner-furnished labor, materials, and equipment.

B. If Changed Work is of such a nature as to increase or decrease the time or cost of any part of Work, price fixed in Contract shall be increased or decreased by amount as the Contractor and Owner may agree upon as reasonable and proper allowance for increase or decrease in cost of Work using the cost guidelines set forth in this Article, and absent such agreement, then as Owner may direct (with Contractor retaining its rights under Article 12 herein).

10.02 Required Documentation For Changed Work

A. Changes affecting the Contract Time or Contract Sum of the Work shall be set forth in a written Change Order or Change Directive that shall specify:
   1. The Work performed in connection with the change to be made;
   2. The amount of the adjustment of the Contract Sum, if any, and the basis for compensation for the Work ordered; and
   3. The extent of the adjustment in the Contract Time, if any.

B. A Change Order or Change Directive will become effective when signed by Owner, notwithstanding that Contractor has not signed it. A Change Order will become effective without Contractor’s signature, provided Owner indicates same thereon (by indicating it as a “unilateral change order”).

C. All changes in any plans and specifications approved by any authority with jurisdiction may also require addenda or change orders approved by that authority.

D. Where Owner requests, a performance bond rider covering the changed Work must be executed and delivered to Owner before proceeding with the changed Work or shortly in time thereafter.

10.03 Procedures And Pricing Of Changed Work

A. Procedures for changed work and pricing of changed work, claims and all forms of extra compensation, are set forth in Section 01 2600 (Modification Procedures).

ARTICLE 11 - TIME ALLOWANCES

11.01 Time Allowances

A. Time is of the essence. Contract Time may only be changed by Change Order, and all time limits stated in the Contract Documents are to mean that time is of the essence.

11.02 Excusable Delay And Inexcusable Delay Defined.

A. **Excusable Delay.** Subject to the provisions on Notice of Delay below, Contract Time may be adjusted in an amount equal to the time lost due to:
   1. Changes in the Work ordered by Owner (“Changes”);
   2. Acts or neglect by Owner, Architect, any Owner Representative, utility owners or other contractors performing other work, not permitted or provided for in the Contract Documents, provided that Contractor has performed its responsibilities under the Contract Documents (including but not limited to pre-bid investigations) (“Acts or Neglect”); or
   3. Fires, floods, epidemics, abnormal weather conditions beyond the parameters otherwise set forth in this Article, earthquakes, civil or labor disturbances, or acts of God (together, “force majeure events”), provided damages resulting therefrom are not the result of Contractor’s failure to protect the Work as required by Contract Documents (“Force Majeure”).

B. **Inexcusable Delay.** Contract Time shall not be extended for any period of time where Contractor (and/or any Subcontractor) is delayed or prevented from completing any part of the Work due to a cause that is within Contractor’s risk or responsibility under the Contract Documents. Delays attributable to or within the control of a Subcontractor, or its subcontractors, or supplier, are deemed delays within the control of Contractor.
C. **Float.** Float shall be treated as a Project resource. Contractor shall not be entitled to a time extension for impacts that consume float, but do not impact the critical path.

11.03 **Notice Of Delay**

A. Within seven Days of the beginning of any delay (excepting adverse weather delays), Contractor shall notify Owner in writing, by submitting a notice of delay that shall describe the anticipated delays resulting from the delay event in question. If Contractor requests an extension of time, Contractor shall submit a TIE within ten days of the notice of delay. Owner will determine all claims and adjustments in the Contract Time. No claim for an adjustment in the Contract Time will be valid and such claim will be waived if not submitted in accordance with the requirements of this subparagraph. In cases of substantial compliance with the seven-day notice requirement here (but not to exceed twenty-one days from the beginning of the delay event), Owner may in its sole discretion recognize a claim for delay accompanied with the proper TIE, provided Contractor also shows good faith and a manifest lack of prejudice to Owner from the late notice.

11.04 **Compensable Time Extensions**

A. Subject to other applicable provisions of the Contract Documents, Contractor may be entitled to adjustment in Contract Sum in addition to Contract Time for:

1. Excusable delay caused solely by Changes in the Work ordered by Owner, as provided above, and/or
2. Excusable delay caused solely by Acts or Neglect by Owner or other person, as provided above.

11.05 **Non-Compensable Time Extensions**

A. Subject to other applicable provisions of the Contract Documents, Contractor may be entitled to adjustment in Contract Time only, without adjustment in Contract Sum, for

1. Periods of excusable delay caused solely by weather or Force Majeure events as provided above in this Article, or
2. Periods of concurrent delay, where delay results from two or more causes, one of which is compensable (resulting from Changes or Acts or Neglect as set forth above in this Article), and the other of which is non-compensable or unexcusable, such as: acts or neglect of Contractor, Subcontractors or others for whom Contractor is responsible; other acts, omissions and conditions which would not entitle Contractor to adjustment in Contract Time; adverse weather; and/or actions of Force Majeure as provided above in this Article.

11.06 **Adverse Weather**

A. Adverse weather delays may be allowed only if the number of workdays of adverse weather exceeds the parameters listed or referenced immediately below in this subparagraph and Contractor proves that adverse weather actually caused delays to work on the critical path. Contractor shall give written notice of intent to claim an adverse weather day within one Day of the adverse weather day occurring.

B. Claims for extension of time for rain delay will not be granted unless the number of days work is prevented by rain exceeds 110% of the average number of rain days expected for the period of the Contract Time, based on the records of the National Oceanic & Atmospheric Administration (NOAA) weather station closest to the Project Site, as measured and reported by NOAA. (For example, for California, Oregon and Washington, these figures are contained in the ">=0.10 inch" column at the applicable weather station’s “General Climate Summary Table” for “Precipitation” at http://www.wrcc.dri.edu/Climsum.html), pro-rated in the individual month Contractor starts and finishes Work. Delays due to adverse weather conditions will not be allowed for weather conditions that fall within these parameters.

C. In order to qualify as an adverse weather delay with respect to the foregoing parameters, (i.) daily rainfall must exceed .1 inch, and/or (ii.) daily snowfall must exceed 1.0 inch or more, at the NOAA station located closest to the Project site, as measured and reported by NOAA. Notwithstanding these allowances, Contractor shall at all times employ all available mitigation measures to enable Work to continue, Contractor shall take reasonable steps to mitigate potential weather delays,
such as dewatering the Site, lime treatment, and covering Work and material that could be affected adversely by weather. Failure to do so shall be cause for Owner to not grant a time extension due to adverse weather, where Contractor could have avoided or mitigated the potential delay by exercising reasonable care.

D. Contractor shall include the foregoing precipitation parameters as a monthly activity in its progress schedule. As Work on the critical path is affected by precipitation, Contractor shall notify Owner and request that the days be moved to the affected activities. Any adverse weather days remaining shall be considered Project float available to either Owner or Contractor.

E. Adverse weather delay for precipitation shall be recognized for the actual period of time Contractor proves it was delayed by precipitation exceeding the specified parameters. For example, and not by way of limitation, if precipitation exceeding the specified parameters does not in fact delay Contractor’s progress on the critical path, then no time extension shall be recognized; and conversely, if Contractor proves to Owner’s satisfaction that precipitation exceeding the specified parameters causes delay to Contractor for a period longer than the number of precipitation days incurred (e.g., if it rains or snows during grading work), then Contractor shall be entitled to a time extension equal to the actual period of such delay.

F. During unfavorable weather, wet ground, or other unsuitable construction conditions, Contractor shall employ best practices to protect the Work, manage the construction site and rainwater during inclement weather. Persons performing the Work shall examine surfaces to receive their Work and shall report in writing to Contractor, with copy to Owner representative and the Architect conditions detrimental to the Work. Failure to examine and report discrepancies makes the Contractor responsible, at no increase in Contract Sum, for corrections Owner may require. Commencement of Work constitutes acceptance of surface.

11.07 Liquidated Damages

A. Time is of the essence. Execution of Contract Documents by Contractor shall constitute its acknowledgement that Owner will actually sustain damages in the form of Contract administration expenses (such as Project management and consultant expenses) in the amount fixed in the Contract Documents for each and every Day during which completion of Work required is delayed beyond expiration of time fixed for completion plus extensions of time allowed pursuant to provisions hereof.

B. Contractor and Owner agree that because of the nature of the Project, it would be impractical or extremely difficult to fix the amount of such actual damages incurred by Owner because of a delay in completion of all or any part of the Work. Contractor and Owner agree that specified measures of liquidated damages shall be presumed to be the amount of such damages actually sustained by Owner, and that because of the nature of the Project, it would be impracticable or extremely difficult to fix the actual damages.

C. Liquidated damages for delay shall cover administrative, overhead, interest on bonds, and general loss of public use damages suffered by Owner as a result of delay. Liquidated damages shall not cover the cost of completion of the Work, damages resulting from Defective Work, lost revenues or costs of substitute facilities, or damages suffered by others who then seek to recover their damages from Owner (for example, delay claims of other contractors, subcontractors, tenants, or other third-parties), and defense costs thereof. Owner may deduct from any money due or to become due to Contractor subsequent to time for completion of entire Work and extensions of time allowed pursuant to provisions hereof, a sum representing then-accrued liquidated damages.

ARTICLE 12 - CLAIMS BY CONTRACTOR

12.01 Obligation to File Claims for Disputed Work

A. Should it appear to Contractor that the Work to be performed or any of the matters relative to the Contract Documents are not satisfactorily detailed or explained therein, or should any questions arise as to the meaning or intent of the Contract Documents, or should any dispute arise regarding the true value of any work performed, work omitted, extra work that the Contractor may be required to perform, time extensions, payment to the Contractor during performance of this Contract, performance of the Contract, and/or compliance with Contract procedures, or should
Contractor otherwise seek extra time or compensation FOR ANY REASON WHATSOEVER, then Contractor shall first follow procedures set forth in the Contract (including but not limited to other Articles of this Document 00 7200 and Section 01 2600.) If a dispute remains, then Contractor shall give written notice to Owner that expressly invokes this Article 12. Owner shall decide the issue in writing within 15 days; and Owner’s written decision shall be final and conclusive. If Contractor disagrees with Owner’s decision, or if Contractor contends that Owner failed to provide a decision timely, then Contractor’s SOLE AND EXCLUSIVE REMEDY is to promptly file a written claim setting forth Contractor’s position as required herein.

12.02 Form And Contents Of Claim
A. Contractor’s written claim must identify itself as a “Claim” under this Article 12 and must include the following: (1) a narrative of pertinent events; (2) citation to contract provisions; (3) theory of entitlement; (4) complete pricing of all cost impacts; (5) a time impact analysis of all time delays that shows actual time impact on the critical path; (6) documentation supporting items 1 through 5; a verification under penalty of perjury of the claim’s accuracy. The Claim shall be submitted to Owner within thirty (30) calendar days of receiving Owner’s written decision, or the date Contractor contends such decision was due, and shall be priced like a change order according to Section 01 2600, and must be updated monthly as to cost and entitlement if a continuing claim. Routine contract materials, for example, correspondence, RFI, Change Order requests, or payment requests shall not constitute a claim. Contractor shall bear all costs incurred in the preparation and submission of a claim.

12.03 Administration During/After Claim Submission
A. Owner may render a final determination based on the Claim or may in its discretion conduct an administrative hearing on Contractor’s claim, in which case Contractor shall appear, participate, answer questions and inquiries, and present any further evidence or analysis requested by Owner prior to rendering a final determination. Should Owner take no action on the Claim within 45 days of submission, it shall be deemed denied.
B. Notwithstanding and pending the resolution of any claim or dispute, Contractor shall diligently prosecute the disputed work to final completion in accordance with Owner’s determination.
C. After their submission, claims less than $375,000 shall also be subject to the Local Agency Disputes Act.

12.04 Compliance
A. The provisions of this Article 12 constitute a non-judicial claim settlement procedure that, pursuant to Section 930.2 of the California Government Code, shall constitute a condition precedent to submission of a valid Government Code Claim under the California Government Code. Contractor shall bear all costs incurred in the preparation, submission and administration of a claim. Any claims presented in accordance with the Government Code must affirmatively indicate Contractor’s prior compliance with the claims procedure herein and the previous dispositions under Paragraph 12.3 above of the claims asserted. Pursuant to Government Code Section 930.2, the one-year period in Government Code section 911.2 shall be reduced to 150 days from either accrual of the cause of action, substantial completion or termination of the contract, whichever occurs first; in all other respects, the Government Code shall apply unchanged.
B. Failure to submit and administer claims as required in Article 12 shall waive Contractor’s right to claim on any specific issues not included in a timely submitted claim. Claim(s) or issue(s) not raised in a timely protest and timely claim submitted under this Article 12 may not be asserted in any subsequent litigation, Government Code Claim, or legal action.
C. Owner shall not be deemed to waive any provision under this Article 12, if at Owner’s sole discretion, a claim is administered in a manner not in accord with this Article 12. Waivers or modifications of this Article 12 may only be made a signed change order approved as to form by legal counsel for both Owner and Contractor; oral or implied modifications shall be ineffective.
ARTICLE 13 - UNDERGROUND CONDITIONS

13.01 Contractor To Locate Underground Facilities.

A. During construction, Contractor shall comply with Government Code Sections 4216 to 4216.9, and in particular Section 4216.2 which provides, in part: “Except in an emergency, every person planning to conduct any excavation shall contact the appropriate regional notification center at least two working days, but no more than 14 calendar days, prior to commencing that excavation, if the excavation will be conducted in an area which is known, or reasonably should be known, to contain subsurface installations other than the underground facilities owned or operated by the excavator, and, if practical, the excavator shall delineate with white paint or other suitable markings the area to be excavated. The regional notification center shall provide an inquiry identification number to the person who contacts the center and shall notify any member, if known, who has a subsurface installation in the area of the proposed excavation.”

B. Contractor shall contact USA, and schedule the Work to allow ample time for the center to notify its members and, if necessary, for any member to field locate and mark its facilities. Contractor is charged with knowledge of all subsurface conditions reflected in USA records. Prior to commencing excavation or trenching work, Contractor shall provide Owner with copies of all USA records secured by Contractor. Contractor shall advise Owner of any conflict between information provided in Document 00 3000 (Geotechnical Data and Existing Conditions), the Drawings and that provided by USA records. Contractor's excavation shall be subject to and comply with the Contract Documents.

C. Contractor shall also investigate the existence of existing service laterals, appurtenances or other types of utilities, indicated by the presence of an underground transmission main or other visible facilities, such as buildings, new asphalt, meters and junction boxes, on or adjacent to the Site, even if not shown or indicated in Document 00 3000 (Geotechnical Data and Existing Conditions), the Drawings or that provided by USA records. Contractor shall immediately secure all such available information and notify Owner and the utility owner, in writing, of its discovery.

13.02 Contractor To Protect Underground Facilities.

A. At all times during construction, all operating Underground Facilities shall remain in operation, unless the Contract Documents expressly indicate otherwise. Contractor shall maintain such Underground Facilities in service where appropriate; shall repair any damage to them caused by the Work; and shall incorporate them into the Work, including reasonable adjustments to the design location (including minor relocations) of the existing or new installations. Contractor shall take immediate action to restore any in service installations damaged by Contractor's operations.

B. Prior to performing Work at the Site, Contractor shall lay out the locations of Underground Facilities that are to remain in service and other significant known underground installations indicated by the Underground Facilities Data. Contractor shall further locate, by carefully excavating with small equipment, potholing and principally by hand, all such utilities or installations that are to remain and that are subject to damage. If additional utilities whose locations are unknown are discovered, Contractor shall immediately report to Owner for disposition of the same. Additional compensation or extension of time on account of utilities not shown or otherwise brought to Contractor's attention, including reasonable action taken to protect or repair damage, shall be determined as provided in this Document 00 7200.

C. If during construction, an Underground Facility is uncovered or revealed at or contiguous to the Site which was not shown or indicated in the materials supplied by Owner for bidding or in information on file at USA or otherwise reasonably available to Contractor, then Contractor shall, promptly after becoming aware thereof and before further disturbing conditions affected thereby (and in no event later than seven Days), and prior to performing any Work in connection therewith (except in an emergency), identify the owner of such Underground Facility and give written notice to that owner and to Owner. During such time, Contractor shall be responsible for the safety and protection of such Underground Facility.

D. The cost of all of the following will be included in the Contract Sum and Contractor shall have full responsibility for (a) reviewing and checking all available information and data including, but not limited to, information made available for bidding and information on file at USA; (b) locating all Underground Facilities shown or indicated in the Contract Documents, available information, or
indicated by visual observation including, but not limited to, and by way of example only, engaging qualified locating services and all necessary backhoeing and potholing; (c) coordination of the Work with the owners of such Underground Facilities during construction; and (d) the safety and protection of all such Underground Facilities and repairing any damage thereto resulting from the Work.

E. Consistent with California Government Code §4215, as between Owner and Contractor, Owner will be responsible for the timely removal, relocation, or protection of existing main or trunk line utility facilities located on the Site only if such utilities are not identified in the Contract Documents or information made available for bidding. Owner will compensate for the cost of locating and repairing damage not due to Contractor’s failure to exercise reasonable care, removing and relocating such main or trunk line utility facilities not indicated in the Contract Documents or information made available for bidding with reasonable accuracy, and equipment on the Project necessarily idled during such Work. Contractor shall not be assessed liquidated damages for delay in completion of the Project, when such delay was caused by the failure of Owner or the utility to provide for removal or relocation of such utility facilities.

13.03 Concealed Or Unknown Conditions

A. If either of the following conditions is encountered at Site when digging trenches or other excavations that extend deeper than four feet below the surface, Contractor shall give a written Notice of Differing Site Conditions to Owner promptly before conditions are disturbed, except in an emergency as set forth in this Document 00 7200, and in no event later than seven Days after first observance of:

1. Subsurface or Latent physical conditions which differ materially from those indicated in the Contract Documents; or
2. Unknown physical conditions of an unusual nature or which differ materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract Documents.

B. In response to Contractor’s Notice of Differing Site Conditions under this Paragraph, Owner will investigate the identified conditions, and if they differ materially and cause increase or decrease in Contractor’s cost of, or time required for, performance of any part of the Work, Owner will negotiate the appropriate change order following the procedures set forth in the Contract Documents. If Owner determines that physical conditions at the Site are not Latent or are not materially different from those indicated in Contract Documents or that no change in terms of the Contract Documents is justified, Owner will so notify Contractor in writing, stating reasons (with Contractor retaining its rights under Article 12 of this Document 00 7200.)

C. Contractor shall not be entitled to any adjustment in the Contract Sum or Contract Time regarding claimed Latent or materially different Site conditions (whether above or below grade) if Contractor knew or should have known of the existence of such conditions at the time Contractor submitted its Bid, failed to give proper notice, or relied upon information, conclusions, opinions or deductions of the kind that the Contract Documents preclude reliance upon.

D. Regarding Underground Facilities, Contractor shall be allowed an increase in the Contract Sum or an extension of the Contract Time, or both, to the extent that they are attributable to the existence of any Underground Facility that is owned and was built by Owner only where the Underground Facility:

1. Was not shown or indicated in the Contract Documents or in the information supplied for bidding purposes or in information on file at USA; and
2. Contractor did not know of it; and
3. Contractor could not reasonably have been expected to be aware of it or to have anticipated it from the information available. (For example, if surface conditions such as pavement repairs, valve covers, or other markings, indicate the presence of an Underground Facility, then an increase in the Contract Sum or an extension of the Contract Time will not be due, even if the Underground Facility was not indicated in the Contract Documents, in the information supplied to Contractor for bidding purposes, in information on file at USA, or otherwise reasonably available to Contractor.)
E. Contractor shall bear the risk that Underground Facilities not owned or built by Owner may differ in nature or locations shown in information made available by Owner for bidding purposes, in information on file at USA, or otherwise reasonably available to Contractor. Underground Facilities are inherent in construction involving digging of trenches or other excavations on Owner’s Project, and Contractor is to apply its skill and industry to verify the information available.

F. Contractor’s compensation for claimed Latent or materially different Site conditions shall be limited to the actual, reasonable, incremental increase in cost of that portion of the Work, resulting from the claimed Latent or materially different Site conditions. Such calculation shall take into account the estimated value of that portion of the Work and the actual value of that portion of the Work, using for guidance Contractor’s or its subcontractor’s bid amount and actual amounts incurred for that portion of the Work and the reasonable expectation (if any) of differing or difficult site conditions in the Work area based on the available records and locale of the Work. For example, if Contractor excavates in an area unexpected, then such costs would be recoverable entirely; while if Contractor extends an existing excavation, then such costs would be recoverable if the resulting excavation costs in that work area exceeded the reasonable expectations therefore.

13.04 Notice Of Hazardous Waste Or Materials Conditions

A. Contractor shall give a written Notice of Hazardous Materials Condition to Owner promptly, before any of the following conditions are disturbed (except in an emergency as set forth in this Document 00 7200), and in no event later than 24 hours after first observance of any:

1. Material that Contractor believes may be hazardous waste or hazardous material, as defined in Section 25117 of the Health and Safety Code (including, without limitation, Asbestos, lead, PCBs, petroleum and related hydrocarbons, and radioactive material) that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law (“hazardous material”); or

2. Other material that may present an imminent substantial danger to persons or property exposed thereto in connection with Work at the Site (“other materials”).

B. Except as otherwise provided in the Contract Documents or as provided by applicable law, Contractor shall not be required to give any notice for the disturbance or observation of any such hazardous materials or other materials where such matter is disturbed or observed as part of the scope of Work under the Contract Documents (such as hazardous waste or hazardous material investigation, remediation or disposal activities which are identified as the subject of Work under the Contract Documents, where Contractor complies with all requirements in the Contract Documents and applicable law respecting such materials.

C. Contractor’s Notice of Hazardous Materials Condition shall indicate whether the hazardous materials or other materials were shown or indicated in the Contract Documents to be within the scope of Work, and whether the hazardous materials or other materials were brought to the Site by Contractor, its Subcontractors, suppliers, or anyone else for whom Contractor is responsible.

D. Contractor shall not be entitled to any adjustment in the Contract Sum or Contract Time regarding claimed hazardous waste or materials if:

1. Contractor knew of the existence of such hazardous materials or other materials at the time Contractor submitted its Bid; or

2. Contractor should have known of the existence of such hazardous material or other materials as a result of its having the responsibility to obtain additional or supplementary examinations, investigation, explorations, tests, studies, and data concerning the conditions at or contiguous to the Site prior to submitting its Bid; or

3. Contractor failed to give the written notice within the required timeframe set forth below.

E. If Owner determines that conditions involve hazardous materials or other materials and that a change in Contract Document terms is justified, Owner will issue either a Request for Proposal or Construction Change Directive under the procedures described in the Contract Documents. If Owner determines that conditions do not involve hazardous materials or other materials or that no change in Contract Document terms is justified, Owner will notify Contractor in writing, stating the reasons for its determination.
F. In addition to the parties' other rights under this Document 00 7200, if Contractor does not agree to resume Work based on a reasonable belief that it is unsafe, or does not agree to resume Work under special conditions, Owner may order the disputed portion of Work deleted from the Work, or performed by others, or Owner may invoke its right to terminate Contractor's right to proceed under the Contract Documents in whole or in part, for convenience or for cause as the facts may warrant.

G. If Contractor does not agree with any Owner determination of any adjustment in the Contract Sum or Contract Time under this Article, Contractor may make a claim as provided in Article 12 of this Document 00 7200.

ARTICLE 14 - LEGAL AND MISCELLANEOUS

14.01 Laws And Regulations
A. Contractor shall keep fully informed of and shall comply with all laws, ordinances, regulations and orders of any properly constituted authority affecting the Contract Documents, Work and persons connected with Work, and shall protect and indemnify Owner and its officers, employees, consultants and agents against any claim or liability, including attorney's fees, arising from or based on violation of law, ordinance, regulation or order, whether by Contractor or by Subcontractors, employees or agents. Authorized persons may at any time enter upon any part of Work to ascertain compliance of all applicable laws, ordinances, regulations and orders.

14.02 Permits And Taxes
A. Contractor shall procure all permits and licenses applicable to the Work (including environmental matters to the extent applicable); pay all charges and fees, including fees for street opening permits; comply with, implement and acknowledge effectiveness of all permits; initiate and cooperate in securing all required notifications or approvals therefore; and give all notices necessary and incident to due and lawful prosecution of Work, unless otherwise provided herein. Owner will pay applicable building permits, sanitation and water fees for the completed construction, except as otherwise provided in the Contract Documents. Contractor shall pay all sales and/or use taxes levied on materials, supplies, or equipment purchased and used on or incorporated into Work, and all other taxes properly assessed against equipment or other property used in connection with Work, without any increase in the Contract Sum. Contractor shall make necessary arrangements with proper authorities having jurisdiction over roads, streets, pipelines, navigable waterways, railroads, and other works in advance of operations, even where Owner may have already obtained permits for the Work.

14.03 Communications And Information Distribution
A. All communications recognized under the Contract Documents shall be in writing, in the form of a serialized document, by type of communication. For example, RFI's shall be serialized beginning with RFI No. 1; payment applications shall be serialized beginning with Payment Application No. 1, submittals shall be serialized per specification section and transmitted with transmittal sheets beginning with Transmittal No. 1; and correspondence shall be serialized beginning with letter No. 1. Contractor may propose other record management and identification systems or protocols, intended to facilitate orderly transmittal of project information, storage and retrieval of such information, which Owner will review consistent with these stated objectives, and accept or reject in its sole discretion.

B. Documents Requiring Signatures. All documents requiring signatures for approval prior to implementing action, as stipulated in other portions of Contract Documents, shall require a manually signed, serialized letter delivered to the other party at its address for notice otherwise specified in the Contract Documents, either personally or by mail.

C. Electronic data transfer of such correspondence will serve to expedite preliminary concurrence of information, only. Receipt of “hard copy” signature on forms is required prior to implementing action or work as the conditions may require. For example, change orders and authorizations for extra cost, require signatures. A party may acknowledge receipt of PDF copies of required correspondence by e-mail, but in the absence of such acknowledgment, mail or personal delivery is required.
D. All emails shall be copied to Owner’s and Contractor’s Project Representative. Owner reserves the right to preclude e-mail communication, in whole or in part, as Project needs may require. Communication between Owner and Contractor shall not be via Twitter, Facebook, or other types of instant text message systems. Any such communications shall be inadmissible for any purpose related to this Contract.

14.04 Suspension Of Work

A. Owner may, without cause, order Contractor in writing to suspend, delay or interrupt Work in whole or in part for such period of time as Owner may determine. An adjustment shall be made for increases in cost of performance of Work of the Contract Documents caused by any such suspension, delay or interruption, calculated using the measures set forth in Section 01 2600 (Modification Procedures). No adjustment shall be made to extent that performance is, was or would have been so suspended, delayed or interrupted by another cause for which Contractor is responsible.

14.05 Termination Of Contract For Cause

A. The Contractor shall be in default of the Contract Documents and Owner may terminate the Contractor’s right to proceed under the Contract Documents, for cause, in whole or in part, should the Contractor commit a material breach of the Contract Documents and not cure such breach within ten (10) calendar days of the date of notice from Owner to the Contractor demanding such cure; or, if such breach is curable but not curable within such ten (10) day period, within such period of time as is reasonably necessary to accomplish such cure. (In order for the Contractor to avail itself of a time period in excess of 10 calendar days, the Contractor must provide Owner within the ten (10) day period with a written plan acceptable to Owner that demonstrates actual resources, personnel and a schedule to promptly to cure said breach, and then diligently commence and continue such cure according to the written plan).

B. In the event of termination by Owner for cause as provided herein, the Contractor shall deliver to Owner possession of the Work in its then condition, including but not limited to, all designs, engineering, Project records, cost data of all types, plans and specifications and contracts with vendors and subcontractors, all other documentation associated with the Project, and all construction supplies and aids dedicated solely to performing the Work which, in the normal course of construction, would be consumed or only have salvage value at the end of the construction period. The Contractor shall remain fully liable for the failure of any Work completed and materials and equipment provided through the date of such termination to comply with the provisions of the Contract Documents. The provisions of this Section shall not be interpreted to diminish any right which Owner may have to claim and recover damages for any breach of the Contract Documents or otherwise, but rather, the Contractor shall compensate Owner for all loss, cost, damage, expense, and/or liability suffered by Owner as a result of such termination and/or failure to comply with the Contract Documents.

C. In the event a termination for cause is later determined to have been wrongfully or without cause, then the termination shall be treated as a termination for convenience, and the Contractor shall have no greater rights than it would have had following a termination for convenience. Any Contractor claim arising out of a termination for cause shall be made in accord with Article 12 herein. No other loss, cost, damage, expense or liability may be claimed, requested or recovered by the Contractor.

14.06 Termination Of Contract For Convenience

A. Owner may terminate performance of the Work under the Contract Documents in accordance with this clause in whole, or from time to time in part, whenever Owner shall determine that termination is in Owner’s best interest. Termination shall be effected by Owner delivering to the Contractor notice of termination specifying the extent to which performance of the Work under the Contract Documents is terminated, and the effective date of the termination.

B. Contractor shall comply strictly with Owner’s direction regarding the effective date of the termination, the extent of the termination, and shall stop work on the date and to the extent specified.
C. Contractor shall be entitled to a total payment on account of the Contract work so terminated measured by (i) the actual cost to Contractor of Work actually performed, up to the date of the termination, with profit and overhead limited to twelve percent (12%) of actual cost of work performed, up to but not exceeding the actual contract value of the work completed as measured by the Schedule of Values and Progress Schedule, (ii) offset by payments made and other contract credits. In connection with any such calculation, however, Owner shall retain all rights under the Contract Documents, including but not limited to claims, indemnities, or setoffs.

D. Under no circumstances may Contractor recover legal costs of any nature, nor may Contract recover costs incurred after the date of the termination.

14.07 Contingent Assignment Of Subcontracts

A. Contractor hereby assigns to Owner each Subcontract for a portion of the Work, provided that:

1. The assignment is effective only after Owner’s termination of Contractor’s right to proceed under the Contract Documents (or portion thereof relating to that Subcontract) as set forth herein.

2. The assignment is effective only for the Subcontracts which Owner expressly accepts by notifying the Subcontractor in writing;

3. The assignment is subject to the prior rights, if any, of the Surety, obligated by Document 00 6113.13 (Construction Performance Bond) provided under the Contract Documents, where the Surety exercises its rights to complete the Contract;

4. After the effectiveness of an assignment, Contractor shall, at its sole cost and expense (except as otherwise provided in this Document 00 7200), sign all instruments and take all actions reasonably requested by Owner to evidence and confirm the effectiveness of the assignment in Owner; and

5. Nothing in this Paragraph shall modify or limit any of Contractor’s obligations to Owner arising from acts or omissions occurring before the effectiveness of any Subcontract assignment, including but not limited to all defense, indemnity and hold-harmless obligations arising from or related to the assigned Subcontract.

14.08 Remedies And Contract Integration

A. Subject to Contract Documents provisions regarding Contractor claims, claim review, and claim resolution, and subject to the limitations therein, the exclusive jurisdiction and venue for resolving all claims, counter claims, disputes and other matters in question between Owner and Contractor arising out of or relating to Contract Documents, any breach thereof or the Project shall be the applicable court of competent jurisdiction located in the State and County where the Project is located. All Owner remedies provided in the Contract Documents shall be taken and construed as cumulative and not exclusive; that is, in addition to each and every other remedy herein provided; and in all instances Owner shall have any and all other equitable and legal rights and remedies which it would have according to law.

B. The Contract Documents, any Contract Modifications and Change Orders, shall represent the entire and integrated agreement between Owner and Contractor regarding the subject matters hereof and thereof and shall constitute the exclusive statement of the terms of the parties’ agreement. The Contract Documents, and any Contract Modifications and Change Orders, shall supersede any and all prior negotiations, representations or agreements, written or oral, express or implied, that relate in any way to the subject matter of the Contract Documents or written Modifications. Owner and Contractor represent and agree that, except as otherwise expressly provided in the Contract Documents, they are entering into the Contract Documents and any subsequent written Modification in sole reliance upon the information set forth or referenced in the Contract Documents or Contract Modifications; the parties are not and will not rely on any other information, which shall be inadmissible in any proceeding to enforce these documents.

C. Either party’s waiver of any breach or failure to enforce any of the terms, covenants, conditions or other provisions of the Contract Documents at any time shall not in any way affect, limit, modify or waive that party’s right thereafter to enforce or compel strict compliance with every term, covenant, condition or other provision hereof, any course of dealing or custom of the trade or oral representations notwithstanding.
D. Neither acceptance of the whole or any part of Work by Owner nor any verbal statements on behalf of Owner or its authorized agents or representatives shall operate as a waiver or modification of any provision of the Contract Documents, or of any power reserved to Owner herein nor any right to damages provided in the Contract Documents.

14.09 Interpretation.

A. Should any part, term or provision of this Agreement or any of the Contract Documents, or any document required herein or therein to be executed or delivered, be declared invalid, void or unenforceable, all remaining parts, terms and provisions shall remain in full force and effect and shall in no way be invalidated, impaired or affected thereby. If the provisions of any law causing such invalidity, illegality or unenforceability may be waived, they are hereby waived to the end that this Agreement and the Contract Documents may be deemed valid and binding agreements, enforceable in accordance with their terms to the greatest extent permitted by applicable law. In the event any provision not otherwise included in the Contract Documents is required to be included by any applicable law, that provision is deemed included herein by this reference (or, if such provision is required to be included in any particular portion of the Contract Documents, that provision is deemed included in that portion).

B. Contract Documents shall not be construed to create a contractual relationship of any kind between (1) Project Manager or any Owner’s representative and Contractor; (2) Owner and/or its Representatives and a Subcontractor, sub-Subcontractor, or supplier of any Project labor, materials, or equipment; or (3) between any persons or entities other than Owner and Contractor.

14.10 Patents

A. Fees or claims for any patented invention, article or arrangement that may be used upon or in any manner connected with performance of the Work or any part thereof shall be included in the Bid price for doing the Work. Contractor shall defend, indemnify and hold harmless Owner and each of its officers, employees, consultants and agents, including, but not limited to, the Board and each Owner’s Representative, from all damages, claims for damages, costs or expenses in law or equity, including attorney’s fees, arising from or relating to any claim that any article supplied or to be supplied under the Contract Documents infringes on the patent rights, copyright, trade name, trademark, service mark, trade secret or other intellectual property right of any person or persons or that the person or entity supplying the article does not have a lawful right to sell the same. Such costs or expenses for which Contractor agrees to indemnify and hold harmless the above indemnities include but are not limited to any and all license fees, whether such fees are agreed by any indemnitee or ordered by a court or administrative body of any competent jurisdiction.

14.11 Substitution For Patented And Specified Articles

A. Except as noted specifically in the instructions to Bidders or in Contract Documents, whenever in Specifications, material or process is designated by patent or proprietary name or by name of manufacturer, such designation shall be deemed to be used for purpose of facilitating description of material and process desired, and shall be deemed to be followed by the words “or Approved Equal” and Contractor may offer any substitute material or process that Contractor considers “equal” in every respect to that so designated and if material or process offered by Contractor is, in opinion of Owner, Equal in every respect to that so designated, its use will be approved. However, Contractor may utilize this right only by timely submitting Document 00 6325 (Substitution Request Form) as provided in Document 00 2000 (Instructions to Bidders). A substitution will be approved only if it is a true “or equal” item in every aspect of its design and quality, including but not limited to its dimensions, weights, service requirements, durability, functioning, impact on contiguous construction elements, overall schedule and design.

14.12 Interest Of Public Officers

A. No representative, officer, or employee of Owner no member of the governing body of the locality in which the Project is situated, no member of the locality in which Owner was activated, and no other public official of such locality or localities who exercises any functions or responsibilities with respect to the Project, during the tenure of the official or for one year thereafter, shall, as
principal, agent, attorney or otherwise, be directly or indirectly interested, in the Contract Documents or the proceeds thereof.

14.13 Limit Of Liability
A. OWNER, AND EACH OF ITS OFFICERS, BOARD MEMBERS, EMPLOYEES, CONSULTANTS AND AGENTS INCLUDING, BUT NOT LIMITED TO, PROJECT MANAGER AND EACH OTHER OWNER REPRESENTATIVE, SHALL HAVE NO LIABILITY TO CONTRACTOR FOR SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, EXCEPT TO THE LIMITED EXTENT THAT THESE CONTRACT DOCUMENTS OR APPLICABLE PUBLIC CONTRACTING STATUTES MAY SPECIFY THEIR RECOVERY.

ARTICLE 15 - WORKING CONDITIONS AND PREVAILING WAGES

15.01 Use Of Site/Sanitary Rules
A. All portions of the Work shall be maintained at all times in neat, clean and sanitary condition. Contractor shall furnish toilets for use of Contractor’s and Subcontractors’ employees on the Site where needed, and their use shall be strictly enforced. All toilets shall be properly secluded from public observation, and shall be located, constructed and maintained subject to Owner’s approval.
B. Contractor shall confine construction equipment, the storage of materials and equipment and the operations of workers to the Site and land areas identified in and permitted by Contract Documents and other land and areas permitted by applicable laws and regulations, rights of way, permits and easements or as designated by Owner, and shall not unreasonably encumber the premises with construction equipment or other materials or equipment. Contractor shall assume full responsibility for any damage to any such land or area, any improvement located thereon, or to Owner or occupant thereof resulting from the performance of Work.
C. During the progress of the Work, Contractor shall keep the Site and the Project free from accumulations of waste materials, rubbish and other debris resulting from the Work. At the completion of the Work, Contractor shall clean the site, remove all waste materials, rubbish and debris from and about the Site as well as all tools, appliances, construction equipment and machinery and surplus materials. Contractor shall leave the premises clean and ready for occupancy by Owner at Substantial Completion of Work. Contractor shall restore to original condition all property not designated for alteration by Contract Documents.
D. Contractor shall not load nor permit any part of any structure or pavement to be loaded in any manner that will endanger the structure or pavement, nor shall Contractor subject any part of Work or adjacent property to stresses or pressures that will endanger it. Contractor shall conduct all necessary existing conditions investigation regarding structural, mechanical, electrical or any other system existing, shall perform Work consistent with such existing conditions, and shall have full responsibility for insufficiencies or damage resulting from insufficiencies of existing systems, equipment or structures to accommodate performing the Work.

15.02 Protection Of Work, Persons, And Property
A. Contractor shall be responsible for initiating, maintaining and supervising all safety and site security precautions and programs in connection with Work, and shall develop and implement a site security and safety plan throughout construction. Contractor shall comply with all safety requirements specified in any safety program established by Owner, or required by state, federal or local laws and ordinances. Contractor shall be responsible for all theft or damage to Work, property or structures, and all injuries to persons, either on the Site or constituting the Work (e.g., materials in transit), arising from the performance of Work of the Contract Documents from a cause.
B. Contractor shall comply with all applicable laws and regulations of any public body having jurisdiction for safety of persons or property or to protect them from damage, injury or loss; and shall erect and maintain all necessary safeguards for such safety and protection. Contractor shall notify Owners of adjacent property and of Underground Facilities and utility Owners when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation and replacement of their property.
15.03 Responsibility For Safety And Health

A. Contractor shall ensure that its and each tier of Subcontractors’ employees, agents and invitees comply with applicable health and safety laws while at the Site. These laws include the Occupational Safety and Health Act of 1970 and rules and regulations issued pursuant thereto, and Owner’s safety regulations as amended from time to time. Contractor shall comply with all Owner directions regarding protective clothing and gear.

B. Contractor shall be fully responsible for the safety of its and its Subcontractors’ employees, agents and invitees on the Site. Contractor shall notify Owner, in writing, of the existence of hazardous conditions, property or equipment at the Site that are not under Contractor’s control. Contractor shall be responsible for taking all the necessary precautions against injury to persons or damage to the property of Contractor, Subcontractors or persons from recognized hazards until the responsible party corrects the hazard.

C. Contractor shall confine all persons acting on its or its Subcontractors’ behalf to that portion of the Site where Work under the Contract Documents is to be performed, Owner-designated routes for ingress and egress thereof, and any other Owner-designated area. Except those routes for ingress and egress over which Contractor has no right of control, within such areas Contractor shall provide safe means of access to all places at which persons may at any time have occasion to be present.

15.04 Emergencies

A. In emergencies affecting the safety or protection of persons or Work or property at the Site or adjacent thereto, Contractor, without special instruction or authorization from Owner, is obligated to act to prevent threat and damage, injury or loss, until directed otherwise by Owner. Contractor shall give Owner prompt written notice if Contractor believes that any significant changes in Work or variations from Contract Documents have been caused thereby. If Owner determines that a change in the Contract Documents is required because of the action taken by Contractor in response to such an emergency, a Change Order or Construction Change Directive will be issued to document the consequences of such action.

B. Owner may, at its option, retain such moneys due under the Contract Documents as Owner deems necessary until any and all suits or claims against Contractor for injury to persons or property at the Site or adjacent thereto are settled and Owner receives satisfactory evidence to that effect.

C. Work within the right-of-way lines of the city and/or Owner and/or State shall be done in accordance with the standards and specifications of the controlling agency. Permit for such work shall be obtained and paid for by the Contractor before executing the work within such right-of-ways.
15.06 **Nondiscrimination**

A. No person or entity shall discriminate in the employment of persons upon public works because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sexual preference, or gender of such persons, except as provided in Section 12940 of the California Government Code. Every contractor for public works violating the provisions of Section 1735 of the California Labor Code is subject to all the penalties imposed for a violation of Chapter 1, Part 7, Division 2 of the California Labor Code.

15.07 **Prevailing Wages And Working Hours**

A. Contractor shall pay to persons performing labor in and about Work provided for in the Contract Documents an amount equal to or more than the general prevailing rate of per diem wages for (1) work of a similar character in the locality in which the Work is performed and (2) legal holiday and overtime work in said locality. The per diem wages shall be an amount equal to or more than the stipulated rates contained in a schedule that has been ascertained and determined by the Director of the State Department of Industrial Relations and Owner to be the general prevailing rate of per diem wages for each craft or type of workman or mechanic needed to execute this Contract. Contractor shall also cause a copy of this determination of the prevailing rate of per diem wages to be posted at each Site.

B. Contractor shall forfeit, as a penalty to Owner, Fifty Dollars ($50.00) for each laborer, workman, or mechanic employed in performing labor in and about the Work provided for in the Contract Documents for each Day, or portion thereof, that such laborer, workman or mechanic is paid less than the said stipulated rates for any Work done under the Contract Documents by him or her or by any Subcontractor under him or her, in violation of Articles 1 and 2 of Chapter 1 of Part 7 of Division II of the California Labor Code. The sums and amounts which shall be forfeited pursuant to this Paragraph and the terms of the California Labor Code shall be withheld and retained from payments due to Contractor under the Contract Documents, pursuant to this Document 00 7200 and the California Labor Code, but no sum shall be so withheld, retained or forfeited except from the final payment without a full investigation by either the State Department of Industrial Relations or by Owner. The Labor Commissioner pursuant to California Labor Code §1775 shall determine the final amount of forfeiture.

C. Contractor shall insert in every subcontract or other arrangement which Contractor may make for performance of Work or labor on Work provided for in the Contract, provision that Subcontractor shall pay persons performing labor or rendering service under subcontract or other arrangement not less than the general prevailing rate of per diem wages for work of a similar character in the locality in which the Work is performed, and not less than the general prevailing rate of per diem wages for holiday and overtime work fixed in the California Labor Code.

D. Contractor stipulates that it shall comply with all applicable wage and hour laws, including without limitation, California Labor Code §§ 1776 and 1810-1815. Failure to so comply shall constitute a default under this Contract.

E. Contractor and its Subcontractors shall be responsible for compliance with Labor Code §§ 1810-1815.

1. Eight hours of labor performed in execution of the Contract constitutes a legal day's work. The time of service of any workman employed on the Project is limited and restricted to 8 hours during any one calendar day, and 40 hours during any one calendar week.

2. Contractor and its Subcontractors shall keep an accurate record showing the name of and actual hours worked each calendar day and each calendar week by each worker employed by him or her in connection with the Project. The record shall be kept open at all reasonable hours to the inspection Owner and to the Division of Labor Standards Enforcement.

3. Contractor or its Subcontractors shall, as a penalty to Owner, forfeit twenty-five dollars ($25) for each worker employed in the execution of the Contract Documents by the respective Contractor or Subcontractor for each calendar day during which the worker is required or permitted to work more than 8 hours in any one calendar day and 40 hours in any one calendar week in violation of the provisions of Labor Code §§ 1810-1815.
4. Work performed on the Project by employees of Contractor or its Subcontractors in excess of 8 hours per day, and 40 hours during any one week, shall be permitted upon compensation for all hours worked in excess of 8 hours per day at not less than 1 1/2 times the basic rate of pay.

F. Contractor and its Subcontractors shall be responsible for compliance with Labor Code Section 1776.
   1. Contractor and Subcontractors must keep accurate payroll records, showing the name, address, social security number, work classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker, or other employee employed by him or her in connection with the Work of the Contract Documents. Each payroll record shall contain or be verified by a written declaration as required by Labor Code Section 1776.
   2. The payroll records enumerated above must be certified and shall be available for inspection at all reasonable hours at the principal office of the Contractor as required by Labor Code Section 1776.
      a. Contractor shall inform Owner of the location of records enumerated above, including the street address, city and county, and shall, within five working days, provide a notice of a change of location and address.
      b. Contractor or Subcontractor has 10 days in which to comply subsequent to receipt of a written notice requesting the records enumerated above. In the event that the Contractor or Subcontractor fails to comply with the ten-day period, he or she shall, as a penalty to Owner on whose behalf the contract is made or awarded, forfeit $25.00 for each calendar day, or portion thereof, for each worker, until strict compliance is effectuated. Upon the request of the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement, these penalties shall be withheld from progress payments then due. Contractor is not subject to a penalty assessment pursuant to this Paragraph due to the failure of a Subcontractor to comply with this Paragraph.
   3. Contractor shall also deliver certified payrolls to Owner with each Application for Payment as set forth above in this Document 00 7200 (General Conditions).

15.08 Environmental Controls
   A. Contractor shall comply with all rules, regulations, ordinances, and statutes that apply to any Work performed under the Contract Documents including, without limitation, any toxic, water, stormwater management and soil pollution controls and air pollution controls specified in California Government Code §11017. Contractor shall be responsible for insuring that Contractor’s Employees, Subcontractors, and the public are protected from exposure to airborne hazards or contaminated water, soil, or other toxic materials used during or generated by activities on the Site or associated with the Project.

15.09 Shoring Safety Plan
   A. Any conflict between this Paragraph and Division 2 of the Specifications shall be resolved in favor of the most stringent requirement.
   B. At least five Days in advance of any excavation five feet or more in depth, Contractor shall submit to Owner a detailed plan showing the shoring, bracing and sloping design (including calculations) and other provisions to be made for worker protection from the hazard of caving ground during the excavation, as required by California Labor Code §6705. A civil or structural engineer registered in California shall prepare and sign any plan that varies from the shoring system standards established by the State Construction Safety Orders.
   C. During the course of Work, Contractor shall be responsible for determining where sloping, shoring, and/or bracing is necessary and the adequacy of the design, installation, and maintenance of all shoring and bracing for all excavation, including any excavation less than five feet in depth. Contractor will be solely responsible for any damage or injuries that may result from excavating or trenching. Owner's acceptance of any drawings showing the shoring or
bracing design or Work schedule shall not relieve Contractor of its responsibilities under this Paragraph.

D. Appoint a qualified supervisory employee who shall be responsible to determine the sloping or shoring system to be used depending on local soil type, water table, stratification, depth, etc.

END OF DOCUMENT
Contractor and Subcontractors are responsible for complying with each and every applicable prevailing wage law and the Owner’s Labor Compliance Program.

ARTICLE 1 - LABOR COMPLIANCE PROGRAM

1.01 In accordance with California Labor Code §1771.7, Owner has established a Labor Compliance Program. This Labor Compliance Program is applicable to construction projects using funds from the Kindergarten-University Public Education Facilities Bond Acts of 2002, 2004 or 2006.

1.02 Owner received initial approval for its Labor Compliance Program from the California Department of Industrial Relations on July 21, 2009

1.03 All Contractors and Subcontractors providing workers or performing work on the Project shall comply with the Labor Compliance Program.

1.04 All Contractors and Subcontractors providing workers or performing work on the Project shall comply with all applicable wage and hour laws.

ARTICLE 2 - CONTACT INFORMATION

2.01 Owner’s Labor Compliance Program is administered by Padilla & Associates Inc., located at 1050 Marina Village Parkway, Suite 101-A, Alameda, CA 94501. (Compliance Administrator) The telephone number for the Compliance Administrator is Alex Dobrin, (310) 279-8830. All inquiries, questions or requests for assistance with regard to Owner’s Labor Compliance Program should be directed to the Compliance Administrator unless Owner directs otherwise.

ARTICLE 3 - WAGE RATES

3.01 Contractor shall post the applicable prevailing wage rates at each Project construction site.

ARTICLE 4 - NO DUTY TO CONTRACTOR OR SUBCONTRACTOR

4.01 The duty of Owner to carry out its Labor Compliance Program runs solely to the Director of the California Department of Industrial Relations and not to any worker, contractor, subcontractor or other party.

ARTICLE 5 - MANDATORY PRE-BID CONFERENCE

5.01 Owner shall conduct a Pre-Bid Conference at 1:30 PM on March 3, 2015 in the conference room L132 of the Learning Center in Building L, Merritt College, 12500 Campus Drive, Oakland, CA 94619, to discuss federal and state labor law requirements applicable to the Project.

5.02 All Contractors must attend this Mandatory Pre-Job Conference and sign an attendance roster as a condition to participating in the Project.

ARTICLE 6 - PAYMENT OF PREVAILING WAGE RATES

6.01 Contractor shall pay to persons performing labor in and about Work provided for in the Contract Documents an amount equal to or more than the general prevailing rate of per diem wages for (1) work of a similar character in the locality in which the Work is performed and (2) legal holiday and overtime work in said locality. The per diem wages shall be an amount equal to or more than the stipulated rates contained in a schedule that has been ascertained and determined by the Director of the State Department of Industrial Relations and Owner to be the general prevailing rate of per diem wages for each craft or type of workman or mechanic needed to execute this Contract.
6.02 Contractor shall insert in every subcontract or other arrangement which Contractor may make for performance of Work or labor on Work provided for in the Contract, a provision that each Subcontractor shall pay persons performing labor or rendering service under subcontract or other arrangement not less than the general prevailing rate of per diem wages for work of a similar character in the locality in which the Work is performed, and not less than the general prevailing rate of per diem wages for holiday and overtime work fixed in the California Labor Code.

6.03 The Contractor is responsible for ascertaining and complying with all current general prevailing wage rates for each craft, classification, or type of worker needed to execute the Contract including any rate changes that take effect during the term of the Contract.

6.04 The Contractor shall insert in every subcontract or other arrangement which Contractor may make for performance of Work or labor on Work provided for in the Contract, a provision that each Subcontractor shall ascertain and comply with all current general prevailing wage rates for each craft, classification, or type of worker needed to perform the Work, including any rate changes that take effect during the term of such contract.

6.05 The limited exemption from paying prevailing wage rates pursuant to California Labor Code §1771.5 shall be applied to this Contract if the exemption criteria set forth therein are met.

ARTICLE 7 - LABOR CODE COMPLIANT PAYROLL RECORDS

7.01 Contractor must maintain accurate payroll records showing the name, address, social security number and work classification of each employee and owner performing Work on the Project. Contractor’s payroll records shall also set forth the straight time and overtime hours worked each day and each week, the fringe benefits and the actual per diem wage paid to each owner, journeyperson, apprentice worker or other employee employed in connection with the Project.

7.02 Each of Contractor’s payroll record shall be verified by a written declaration that it is made under penalty of perjury and stating that the information contained in the payroll record is true and correct and that the Contractor has complied with the requirements of California Labor Code §§1771, 1811 and 1815 for any Work performed by the Contractor’s employees on the Project.

7.03 The Contractor shall insert in every subcontract or other arrangement which Contractor may make for performance of Work or labor on Work provided for in the Contract, a provision that each Subcontractor shall maintain accurate payroll records showing the name, address, social security number and work classification of each employee and owner performing Work on the Project. Subcontractor’s payroll records shall also set forth the straight time and overtime hours worked each day and each week, the fringe benefits and the actual per diem wage paid to each owner, journeyperson, apprentice worker or other employee employed in connection with the Project.

7.04 The Contractor shall insert in every subcontract or other arrangement which Contractor may make for performance of Work or labor on Work provided for in the Contract, a provision that each Subcontractor shall verified by a written declaration that it is made under penalty of perjury and stating that the information contained in the payroll record is true and correct and that the Subcontractor has complied with the requirements of California Labor Code §§1771, 1811 and 1815 for any Work performed by the Subcontractor’s employees on the Project.

ARTICLE 8 - PAYROLL RECORD AVAILABILITY

8.01 The Contractor shall make available for inspection at all reasonable hours at the principal office of the Contractor, or shall furnish a certified copy, of all Contractor’s payroll records for its employees employed in connection with the Work upon request by an employee, employee representative, Owner, the Compliance Administrator or any other Owner representative, The Division of Labor Standards

8.02 The Contractor shall insert in every subcontract or other arrangement which Contractor may make for performance of Work or labor on Work provided for in the Contract, a provision that each Subcontractor shall make available for inspection at all reasonable hours at the principal office of the Subcontractor, or shall furnish a certified copy of all Subcontractor’s payroll records
for its employees employed in connection with the Work upon request by an employee, employee representative, Owner, the Compliance Administrator or any other Owner representative, The Division of Labor Standards.

8.03 If the principal office of the Contractor or Subcontractor is more than twenty-five miles from the Project site, upon request from Owner, the Compliance Administrator or any other Owner representative or a worker employee, Contractor or Subcontractor shall make a certified copy of all Contractor’s or Subcontractor’s payroll records for its employees employed in connection with the Work available for inspection at Owner’s office located at [address].

ARTICLE 9 - SUBMISSION OF WEEKLY PAYROLL RECORDS

9.01 Contractor shall submit to the Compliance Administrator a certified copy of all the Contractor’s payroll records for its employees employed in connection with the Work on a weekly basis. The certified payroll records for the preceding week shall be submitted on the Wednesday of the following week. In the event that a legal holiday falls on Wednesday, the certified payroll records shall be submitted on the next business day.

A. If there was no work performed during a given week, Contractor’s certified payroll record shall be annotated: “no work” for that week.

B. Contractor shall mark “final” on its last submitted payroll for the Project.

9.02 The Contractor shall insert in every subcontract or other arrangement which Contractor may make for performance of Work or labor on Work provided for in the Contract, a provision that each Subcontractor shall submit to the Compliance Administrator a certified copy of all the Subcontractor’s payroll records for its employees employed in connection with the Work on a weekly basis. The certified payroll records for the preceding week shall be submitted on the Wednesday of the following week. In the event that a legal holiday falls on Wednesday, the certified payroll records shall be submitted on the next business day.

A. If there was no work performed during a given week, Subcontractor’s certified payroll record shall be annotated: “no work” for that week.

B. Subcontractor shall mark “final” on its last submitted payroll for the Project.

ARTICLE 10 - AUDIT AND INVESTIGATION OF COMPLIANCE

10.01 Owner may conduct reasonable investigation of Contractor’s and/or Subcontractor’s compliance with the requirements of California Labor Code §§1771, 1775, 1777..5, 1811, 1813 and 1815 and any other applicable state or federal labor law. Not more than ten days after a written or oral request from Owner, Compliance Administrator or any other Owner representative, Contractor and/or Subcontractor shall provide legible copies of time cards, personnel sign in sheets, daily logs payroll registers, paycheck stubs, cancelled paychecks or any other document requested to authenticate or corroborate compliance with prevailing wage rate laws. Contractor and/or Subcontractor shall make the originals of the requested documents available for inspection upon request by Owner, the Compliance Administrator or any other Owner representative at all reasonable hours at the principal office of the Contractor or Subcontractor or if the principal office of the Contractor or Subcontractor is more than 25 miles from the Project site, at Owner’s office located at Department of General Services, 333 East 8th Street, Oakland, CA 94606.

10.02 Contractor and/or Subcontractor shall assist Owner, the Compliance Administrator or any other Owner representative with any investigation or audit of Contractor and/or Subcontractor regarding compliance with the prevailing wage rate laws.

10.03 Contractor and/or Subcontractor shall make its employees available for interviews by Owner, the Compliance Administrator or any other Owner representative.

10.04 Neither Contractor nor Subcontractor shall take retaliatory measures against any worker on the Project for informing Owner or Compliance Administrator or Owner representative of, or responding to, any monitoring, investigation or audit of any violation or suspected violation of the prevailing wage rate laws.
10.05 Contractor shall insert in every subcontract or other arrangement which Contractor may make for performance of Work or labor on Work provided for in the Contract, the same terms as set forth in this Document 00 7300 Paragraphs 10 and each subpart thereto.

ARTICLE 11 - INADEQUATE OR DELINQUENT PAYROLL RECORDS

11.01 Payment under this Contract shall not be made when Contractor or Subcontractor payroll records are delinquent or inadequate.

11.02 Payroll records shall be considered delinquent if they are not submitted in compliance with Paragraph 9 of this Document 00 7300.

11.03 Payroll records shall also be considered delinquent if they are not submitted within ten days of any written request by Owner or Compliance Administrator or other Owner representative.

11.04 Payroll records shall be considered inadequate if one or more of the following conditions exists:

A. The record lacks the information required by California Labor Code §1776; or

B. The record contains the information required by California Labor Code §1776 but is not certified, or is certified by someone that is not an agent of the Contractor; or

C. A nonconforming record remains uncorrected for one payroll period after Owner or its designee has given Contractor notice of inaccuracies detected by Owner or its designee.

ARTICLE 12 - NAME AND ADDRESS OF BONDING COMPANY

12.01 Contractor shall provide Owner with the name and address of any bonding company issuing a bond that secures the payment of wages by the Contractor. If the name or address of any such bonding company changes over the term of this Contract, Contractor shall provide the new name and/or address of the bonding company to Owner in writing within ten days of such change. The writing shall be clearly identified as “Notice of Change in Bonding Company For Payment of Wages.”

12.02 The Contractor shall insert in every subcontract or other arrangement which Contractor may make for performance of Work or labor on Work provided for in the Contract, a provision that each Subcontractor shall provide Owner with the name and address of any bonding company issuing a bond that secures the payment of wages by the Subcontractor. If the name or address of any such bonding company changes over the term of the Project, Subcontractor shall provide the new name and/or address of the bonding company to Owner in writing within ten days of such change. The writing shall be clearly identified as “Notice of Change in Bonding Company For Payment of Wages.”

ARTICLE 13 - NOTICE TO BONDING COMPANY

13.01 Contractor acknowledges and agrees that in the event that Owner or its Compliance Administrator or any other Owner representative, provides notice of withholding contract payment to the Contractor or Subcontractor, a copy of the notice may also be served on any of Contractor's or Subcontractor's bonding companies that issued a bond to securing payment of wages.

13.02 The Contractor shall insert in every subcontract or other arrangement which Contractor may make for performance of Work or labor on Work provided for in the Contract, a provision that each Subcontractor shall acknowledges and agrees that in the event that Owner or its Compliance Administrator or any other Owner representative, provides notice of withholding contract payment to the Contractor or Subcontractor, a copy of the notice may also be served on any of Contractor’s or Subcontractor’s bonding companies that issued a bond to securing payment of wages.

ARTICLE 14 - NOTICE OF WITHHOLDING

14.01 Owner shall provide Contractor with notice of withholding contract payments.
14.02 Owner shall provide Contractor and Subcontractor with notice of withholding if withholding is due to Subcontractor.

ARTICLE 15 - REQUEST FOR REVIEW

15.01 The exclusive and only means for Contractor or Subcontractor to receive review of a decision by Owner to withhold payment for violations of the prevailing wage requirements is through the procedure set forth herein.

15.02 Contractor or Subcontractor may contest a finding that it has violated the prevailing wage requirement laws by submitted a writing clearly identified as “Request for Review” to Owner’s Labor Compliance Program personnel as identified in Paragraph 2 of this Document 00 7300 within sixty (60) days after service of the Notice to Withhold of Contract Payments.

15.03 The Request for Review must clearly identify the Notice of Withholding Contract Payments from which review is sought, including the date of the Notice of Withholding Contract Payments or it shall include a copy of the Notice of Withholding Contract Payments as an attachment.

15.04 The Request for Review must contain a complete statement of the basis for the protest.

15.05 The Request for Review must refer to the specific portion of the Notice to Withhold that forms the basis for the protest.

15.06 The Request for Review must include the name, address, and telephone number of the person representing the protesting party.

15.07 Contractor shall insert in every subcontract or other arrangement which Contractor may make for performance of Work or labor on Work provided for in the Contract, the same terms as set forth in this Document 00 7300 Paragraphs 15, 16 and 17 and each subpart thereto.

ARTICLE 16 - FAILURE TO REQUEST REVIEW SHALL RESULT IN FINAL JUDGMENT

16.01 Failure by the Contractor to submit a timely Request for Review may result in a final order which shall be binding on the Contractor, and which shall also be binding, with respect to the amount due, on the bonding company issuing a bond that secures the payment of wages by the Contractor and a surety on the bond.

16.02 Failure by the Subcontractor to submit a timely Request for Review may result in a final order which shall be binding on the Subcontractor, and which shall also be binding, with respect to the amount due, on the bonding company issuing a bond that secures the payment of wages by the Subcontractor and a surety on the bond.

ARTICLE 17 - NO INTERIM PAYMENT OF WITHHELD CONTRACT PAYMENTS

17.01 Pending a final order, or the expiration of the time period for seeking review of the Notice of Withholding of Contract Payments, Owner shall not disburse any Contract payments that have been withheld.

ARTICLE 18 - FAILURE TO COMPLY WITH LABOR LAWS MAY RESULT IN PENALTIES

18.01 Failure by Contractor or Subcontractor to pay every employee performing Work prevailing wages may result in the Contractor and/or Subcontractor being prohibited from bidding on public works projects for up to three years.

18.02 Failure by Contractor or Subcontractor to pay every employee performing Work prevailing wages may result in the Contractor and/or Subcontractor being prohibited from being awarded public works projects for up to three years.

18.03 Failure by Contractor or Subcontractor to pay every employee performing Work prevailing wages may result in a forfeiture of the unpaid wages by the Contractor or Subcontractor.

18.04 Failure by Contractor or Subcontractor to pay every employee performing Work prevailing wages may result in a forfeiture of up to $50.00 per each calendar day, or portion thereof, for each worker paid less than the prevailing wage rates.
18.05 Failure by Contractor or Subcontractor to submit certified copies of payroll records within ten days of a written request from Owner, the Compliance Administrator or any other Owner representative may result in a forfeiture of up to $25.00 per each calendar day, or portion thereof, for each worker until strict compliance is effectuated.

18.06 Failure by Subcontractor to pay every employee performing Work prevailing wages may result in withholdings, penalties and forfeitures being assessed against Contractor.

ARTICLE 19 - CONTRACTOR MUST MONITOR SUBCONTRACTOR COMPLIANCE

19.01 Contractor shall monitor the payment of the specified general prevailing rate of per diem wages to employees by each Subcontractor by periodically reviewing the certified payroll records of each Subcontractor.

ARTICLE 20 - CORRECTIVE ACTION BY CONTRACTOR REGARDING SUBCONTRACTOR

20.01 Once the Contractor is aware that any Subcontractor has failed to pay its workers the specified prevailing rate of wages, the Contractor shall diligently take corrective action to halt or rectify the failure, including but not limited to, retaining sufficient funds due the Subcontractor for Work performed on the Project.

ARTICLE 21 - AFFIDAVIT PRIOR TO FINAL PAYMENT TO SUBCONTRACTOR

21.01 Prior to making final payment to any Subcontractor for Work performed on the Project, Contractor shall obtain an affidavit signed under penalty of perjury from each Subcontractor that each Subcontractor has paid the specified general prevailing rate of per diem wages to its employees on the Project and any amounts due under California Labor Code §1813.

ARTICLE 22 - NOTICE OF PRIOR VIOLATIONS OF THE PREVAILING WAGE RATES

22.01 Contractor shall promptly notify Owner if Contractor has been barred from bidding for or working on public works projects for any reason.

22.02 Contractor shall promptly notify Owner if Contractor or a firm, corporation, partnership, or association in which the contractor has any interest has been found to have willfully violated the prevailing wage rate laws.

22.03 Contractor shall promptly notify Owner if Contractor or a firm, corporation, partnership, or association in which the contractor or has any interest has been found to have violated the public works chapter of the California Labor Code with an intent to defraud.

22.04 The term “any interest” shall have the meaning set forth in California Labor Code §1777.1(f) or any amendment thereto.

22.05 Notice shall be given by the Contractor to Owner before bidding closes or if Contractor is unaware until after bidding has closed, before the Contract is awarded or if the Contractor is unaware until after the Contract has been awarded then before it is executed and if the Contractor is unaware until after the Contract has been executed then not more than five calendar days after Contractor has notice of any kind that it has been found to have willfully violated the prevailing wage rate laws or found to have violated the public works chapter of the California Labor Code with an intent to defraud.

ARTICLE 23 - DEFINITIONS

23.01 All abbreviations and definitions of terms used in this Document 00 7300 are set forth in this Document 00 7300 or in Document 00 7200 (General Conditions) and Section 01 4200 (References and Definitions).

END OF DOCUMENT
MERRITT COLLEGE SCIENCE BUILDING SITE PAVING

DOCUMENT 00 7316

SUPPLEMENTARY CONDITIONS

1. SUMMARY
   A. This document includes requirements that supplement the paragraphs of Document 00 7200 (General Conditions).

2. SUPPLEMENTS
   A. Add new Article 16 - “Insurance Requirements”:
      1. At or before the date specified in Document 00200 (Instructions to Bidders), Contractor shall furnish to District satisfactory proof that Contractor has taken out for the entire period covered by the Contract the following classes of insurance in the form and with limits and deductibles specified below:
         1. Comprehensive General Liability Insurance covering claims for personal injury, bodily injury and property damage arising out of the Work and in a form providing coverage not less than that of a Standard Commercial General Liability Insurance policy (“Occurrence Form”). Such insurance shall provide for all operations and include independent contractors, products liability, completed operations for one year after Final Completion and acceptance of the final payment for the Work, contractual liability, and coverage for explosion, collapse, and underground hazards. The limits of such insurance shall not be coverage of less than $1,000,000 each occurrence, $2,000,000 general aggregate limit, and $2,000,000 aggregate for products and completed operations. The policies shall be endorsed to provide Broad Form Property Damage Coverage.
         2. Comprehensive Automobile Liability Insurance covering all owned, non-owned, and hired vehicles. Such insurance shall provide coverage not less than the standard Comprehensive Automobile Liability policy with limits not less than $1,000,000 each person Bodily Injury, $1,000,000 each occurrence Bodily Injury, and $1,000,000 each occurrence Property Damage.
         3. All-Risk Course of Construction Insurance including damage to property owned by District, Contractor or third parties caused by fire. Insurance shall be in the amount of 100 percent of the completed value of the Work to be performed under this Contract. Deductible shall not exceed $10,000. Each loss shall be borne by Contractor.
         4. Workers’ Compensation Insurance for all persons whom the Contractor may employ in carrying out Work contemplated under Contract Documents, in accordance with the Act of Legislature of State of California, known as “Workers’ Compensation Insurance and Safety Act,” approved May 26, 1913, and all acts amendatory or supplemental thereto, in the statutory amount.
         5. [Option] Environmental Impairment Liability Insurance covering bodily injury and property damage utilizing an occurrence policy form, in an amount no less

Supplementary Conditions
Merritt College Science Building Site Paving

00 7316-1
than [Insert Amount e.g. $1,000,000] combined single limit for each occurrence.

2. All policies of insurance shall be placed with insurers acceptable to District. The insurance underwriter(s) for all insurance policies except Workers’ Compensation shall have an A. M. Best Company rating of A-, VIII or better. Required minimum amounts of insurance may be increased should conditions of Work, in opinion of District, warrant such increase. Contractor shall increase required insurance amounts upon direction by District.

3. Required Endorsements: The policies required under paragraphs 4.2.A.1 and 4.2.A.2 [Option: and 4.2.A.5] of this Document 00700 shall be endorsed as follows:

1. Name District, its Board of Directors, and their employees, representatives, consultants, and agents, and Project Manager as additional insureds, but only with respect to liability arising out of the activities of the named insured.

2. Each such policy shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limit of the insurance company’s liability required under paragraphs 4.2.A.1 and 4.2.A.2 [Option: and 4.2.A.5] of this Document 00700.

3. Insurance shall be primary to District and no other insurance or self-insured retention carried or held by District shall be called upon to contribute to a loss covered by insurance for the named insured.

4. [Option] Additional Endorsement: The policy required under paragraph 4.2.A.1 of this Document 00700 shall be endorsed as follows:

1. Name the State of California, its officers, agents, employees, and servants as additional insured, but only with respect to liability arising out of the activities of the named insured.

5. Certificates of insurance and endorsements shall have clearly typed thereon District Contract Number and title of Contract Documents. Written notice of cancellation, non-renewal, or reduction in coverage of any policy shall be mailed to District (Attention: Contract Administration/Inspection) at the address listed in Document 00520 (Agreement), 60 Days in advance of the effective date of the cancellation, non-renewal, or reduction in coverage. Written notice of cancellation for non-payment shall be mailed within 10 Days of cancellation. Contractor shall maintain insurance in full force and effect during entire period of performance of Contract Documents. Contractor shall keep insurance in force during warranty and guarantee periods, except that Contractor may discontinue All-Risk Course of Construction Insurance after Final Payment. At time of making application for extension of time, and during all periods exceeding the Contract Time resulting from any cause, Contractor shall submit evidence that insurance policies will be in effect during requested additional period of time. Upon District’s request, Contractor shall submit to District, within 30 Days, copies of the actual insurance policies or renewals or replacements.

6. Contractor shall pay all insurance premiums, including any charges for required waivers of subrogation or the endorsement of additional insureds. If Contractor fails to maintain insurance, District may take out comparable insurance, and deduct and retain amount of premium from any sums due Contractor under Contract Documents.
7. If injury occurs to any employee of Contractor, Subcontractor or sub-subcontractor for which the employee, or the employee’s dependents in the event of employee’s death, is entitled to compensation from District under provisions of the Workers’ Compensation Insurance and Safety Act, as amended, or for which compensation is claimed from District, District may retain out of sums due Contractor under Contract Documents, amount sufficient to cover such compensation, as fixed by the Act, as amended, until such compensation is paid, or until it is determined that no compensation is due. If District is compelled to pay compensation, District may, in its discretion, either deduct and retain from the Contract Sum the amount so paid, or require Contractor to reimburse District.

8. Nothing in paragraph 4.2 of this Document 00700 shall be construed as limiting in any way the extent to which Contractor or any Subcontractor may be held responsible for payment of damages resulting from their operations.

9. All Subcontractors shall maintain the same insurance required to be maintained by Contractor with respect to their portions of the Work, and Contractor shall cause the Subcontractors to furnish proof thereof to District within ten Days of District’s request.

10. The following provisions apply to any licensed professional engaged by Contractor to perform portions of the Work (“Professional”).

   1. Each Professional shall maintain the following insurance:

   a. Professional Liability Insurance, insuring against professional errors and omissions arising from Professional’s Work on the Project, in an amount not less than $1,000,000 combined single limit for each occurrence. If Professional cannot provide an occurrence policy, Professional shall provide insurance covering claims made as a result of performance of Work on this Project and shall maintain such insurance in effect for not less than two years following Final Completion of the Project.

   b. All insurance required by paragraphs 4.2.A.1, 4.2.A.2, and 4.2.A.4 of this Document 00700. Professional shall satisfy all other provisions of paragraph 4.2 of this Document 00700 relating to that insurance, including without limitation providing required insurance certificates (containing the required endorsements) before commencing its Work on the Project.

END OF DOCUMENT
SMALL LOCAL BUSINESS ENTERPRISE and SMALL EMERGING LOCAL BUSINESS ENTERPRISE PROGRAM

The District is committed to ensure equal opportunity and equitable treatment in awarding and managing its public contracts and has established an annual overall program goal of twenty-five percent participation for small local businesses. To facilitate opportunities for small local business, the District will use a maximum 5% bidding preference for SLBE and SELBE firms. The preference is only used for computation purposes to determine the winning bidder, the contract is awarded at the actual bid amount. Please review the following guidelines to see if your firm qualifies for the preference.

The 5% bidding preference for an SLBE and SELBE firms are for construction, personal and professional services, goods and services, maintenance, repairs, and operations where responsibility and quality are equal. The preference will be 5% of the bid amount of the lowest responsive responsible bidder, and may not exceed $50,000.00 for any bid.

A Non-SLBE/SELBE Prime Contractor who utilizes 25% of total bid amount, with SLBE or SELBE subcontractors (who meet the District’s Definition of an SLBE and SELBE), can also receive a maximum of 4% bidding preference, not to exceed $50,000.00 for any bid. (See below Subcontractors section.)

Definitions:

- **SLBE**: A Small Local Business Enterprise is a business that has not exceeded gross annual revenue of 8.5 million dollars for a construction firm, or 6 million dollars for goods and non-professional services firm, or 3 million dollars for architecture, engineering and professional services firm, for the past three consecutive years and meets the below geographic location requirements.

- **SELBE**: A Small Local Emerging Business Enterprise is a business that has not exceeded gross annual revenue of 1.5 million dollars for the past three consecutive years and meets the below geographic location requirements.

- **Commercially Useful Function**: Shall mean a business is directly responsible for providing the materials, equipment, supplies or services to the District as required by the contract solicitation. The business performs work that is normal for its business services and carries out its obligation by actually performing, managing, or supervising the work involved. The business is not Commercially Useful if its role is limited to that of an extra participant in a transaction, contract, or project through which funds are passed in order to obtain the appearance of SLBE or SELBE participation.

Geographic Location Requirements:

- The business must be located at a fixed, established commercial address located in the District’s market area of Albany, Alameda, Berkeley, Emeryville, Oakland, or Piedmont, and not a temporary or movable office, a post office box, or a telephone answering service.

- If the business has an office outside of the District’s market area as well as an office within the market area, the office within the District’s market area must be staffed on a full time permanent basis with someone employed by the business.

- If requested, the business that has an office outside of the District’s market area must provide proof of one or more past contracts citing the business address (such as contracts to perform work, to rent space or equipment, or for other business services) was within the District’s market area at least one (1) year prior to the date of contract award. The one-year
requirement does not apply to businesses whose sole establishment is located within the District’s market area.

Subcontractors:

Non-SLBE/SELBE Prime Contractors who use subcontractors, who meet the district definitions of SLBE and SELBE, may receive a maximum of 4% bidding preference if the following conditions are met:

1. 25% of total bid amount is with Subcontractors who meet the District’s definition of an SLBE and SELBE. The Prime Contractor must list each Subcontractor on the Subcontractor List form, clearly identifying the SLBE and SELBE status and the Dollar Amount of work each subcontractor will perform.

2. The Subcontractors must provide a Commercially Useful Function.

3. The Prime Contractor must maintain the Subcontractor percentages (based on the quoted dollar amounts) indicated in the Subcontractor List form at the time the Contract is awarded and throughout the term of the Contract.

4. The Prime Contractor must fill out sign the SLBE/SELBE Self Certification Affidavit and return it with the bid documents, and 48 hours after the bid opening the Prime Contractor must submit signed SLBE/SELBE Self Certification Affidavit from each of the SLBE and SELBE subcontractors listed in the Subcontractor form. The Subcontractor must agree to provide the requested documentation to verify the SLBE/SELBE status.

5. No Substitutions can be made to the SLBE and SELBE subcontractor without the prior written approval of the District. The District will approve a subcontractor substitution on the following conditions:

   a. A written statement from the subcontractor agreeing to the substitution.
   
   b. When the subcontractor has been given a reasonable opportunity to execute the subcontract, yet fails to, or refuses to execute the subcontract, or refuses to satisfy contractual obligations.
   
   c. When the subcontractor becomes insolvent.
   
   d. When the District determines the work performed by the subcontractor is not in accordance with the contact agreement, or the subcontractor is substantially and unduly delaying or disrupting the progress of work.

Firms that meet the District criteria for an SLBE and SELBE can complete the below self-certification affidavit signed under penalty of perjury. Firms claiming SLBE and SELBE status in the self-certification affidavit will be required to submit proof of residency and revenue 48 hours after bid opening. Such proof shall consist of a copy of a contract to perform work, to rent space or equipment, or for other business services, executed from their local address, and the firm’s tax returns for the past three consecutive years.
SLBE/ SELBE SELF CERTIFICATION AFFIDAVIT

I certify under penalty of perjury that my firm meets the District's definition of a Small Local Business Enterprise or a Small Emerging Local Business Enterprise and resides in the geographic location of the District's market area and qualifies for the below preference. The maximum preference will be five percent of the bid amount of the lowest responsible bidder, and may not exceed $50,000.00 for any bid. The preference is only used for computation purposes to determine the winning bidder; the contract is awarded at the actual bid amount. The District’s Contract Compliance Office will determine whether this requirement has been fulfilled. Bidders may only claim one of the below preferences.

<table>
<thead>
<tr>
<th>Certification Status</th>
<th>Preference</th>
<th>Preference Claimed (check only one)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLBE</td>
<td>5% of lowest bid</td>
<td></td>
</tr>
<tr>
<td>SELBE</td>
<td>5% of lowest bid</td>
<td></td>
</tr>
<tr>
<td>25% of Subcontractors are</td>
<td>4% of lowest bid</td>
<td></td>
</tr>
<tr>
<td>SLBE/SELBE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not Applicable</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

1. I acknowledge and am hereby advised that upon a finding of perjury with the claims made in this self-certification affidavit the District is authorized to impose penalties which may include any of the following:

   a) Refusal to certify the award of a contract
   b) Suspension of a contract
   c) Withholding of funds
   d) Revision of a contract for material breach of contract
   e) Disqualification of my firm from eligibility for providing goods and services to the Peralta Community College District for a period not to exceed five (5) years

2. I acknowledge and have been advised and hereby agree that my firm will be required to provide proof (and if applicable, my SLBE and SELBE Subcontractors will provide proof) of the status claimed on this self-certification affidavit 48 hours after bid opening. Proof of status claimed includes tax returns from the previous three years and past contracts to determine the size and geographical location of my firm.

3. I declare that the above provisions are attested to under penalty of perjury under the laws of the State of California.

Bid Number: _________________ Bid Name: ________________________________

_________________________ Date ____________________________

Signed

_________________________ Title ____________________________

Printed or typed name

_________________________ Telephone ____________________________

Fax ____________________________

Name of Company ____________________________

Small Local Business Enterprise 00 7339 - 3

Merritt College Science Building Site Paving
Merritt College Science Building Site Paving

DOCUMENT 00 7380

APPRENTICESHIP PROGRAM

ARTICLE 1 - COMPLIANCE REQUIRED
1.01 Contractor and Subcontractors shall comply with the requirements of California Labor Code §§1776, 1777.5, and 1777.6 concerning the employment of apprentices by Contractor or Subcontractors. Willful failure to comply may result in penalties, including loss of the right to Bid on or receive public works contracts.

ARTICLE 2 - CERTIFICATION OF APPROVAL
2.01 California Labor Code §1777.5, as amended, requires a Contractor or Subcontractor employing tradespersons in any apprenticeable occupation to apply to the joint apprenticeship committee nearest the site of a public works project and which administers the apprenticeship program in that trade for a certification of approval. The certificate shall also fix the ratio of apprentices to journeypersons that will be used in performance of the Contract. The ratio of work performed by apprentices to journeypersons in such cases shall not be less than one hour of apprentices work for every five hours of labor performed by journeypersons (the minimum ratio for the land surveyor classification shall not be less than one apprentice for each five journeypersons), except:

A. When unemployment for the previous three month period in the area exceeds an average of 15 percent;
B. When the number of apprentices in training in the area exceeds a ratio of one to five;
C. When a trade can show that it is replacing at least 1/30 of its membership through apprenticeship training on an annual basis state-wide or locally; or
D. Assignment of an apprentice to any work performed under a public works contract would create a condition which would jeopardize his or her life or the life, safety, or property of fellow employees or the public at large or if the specific task to which the apprentice is to be assigned is of such a nature that training cannot be provided by a journeyperson.

ARTICLE 3 - FUND CONTRIBUTIONS
3.01 Contractor is required to make contributions to funds established for administration of apprenticeship programs if Contractor employs registered apprentices or journeypersons in any apprenticeable trade on such contracts and if other contractors on the public works site are making such contributions.

ARTICLE 4 - APPRENTICESHIP STANDARDS
4.01 Information relative to apprenticeship standards, wage schedules, and other requirements may be obtained from the Director of the California Department of Industrial Relations, or from the Division of Apprenticeship Standards and its branch offices.

END OF DOCUMENT
MERRITT COLLEGE SCIENCE BUILDING SITE PAVING

DOCUMENT 00 8250

PROJECT LABOR AGREEMENT

See attached.

END OF DOCUMENT
PERALTA COMMUNITY COLLEGE DISTRICT

CONSTRUCTION PROJECT LABOR AGREEMENT

JULY 21, 2009
## PROJECT LABOR AGREEMENT
### TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preamble</td>
<td>2</td>
</tr>
<tr>
<td>Recitals</td>
<td>2</td>
</tr>
<tr>
<td>ARTICLE 1</td>
<td>Definitions</td>
</tr>
<tr>
<td>ARTICLE 2</td>
<td>Purpose</td>
</tr>
<tr>
<td>ARTICLE 3</td>
<td>Scope of Agreement</td>
</tr>
<tr>
<td>ARTICLE 4</td>
<td>Effect of Agreement</td>
</tr>
<tr>
<td>ARTICLE 5</td>
<td>Subcontracts</td>
</tr>
<tr>
<td>ARTICLE 6</td>
<td>Work Stoppages, Strikes, Sympathy Strikes and Lockouts</td>
</tr>
<tr>
<td>ARTICLE 7</td>
<td>Prejob Meeting</td>
</tr>
<tr>
<td>ARTICLE 8</td>
<td>Nondiscrimination</td>
</tr>
<tr>
<td>ARTICLE 9</td>
<td>Union Recognition</td>
</tr>
<tr>
<td>ARTICLE 10</td>
<td>Referral</td>
</tr>
<tr>
<td>ARTICLE 11</td>
<td>Wages and Benefits</td>
</tr>
<tr>
<td>ARTICLE 12</td>
<td>Grievance Arbitration Procedure</td>
</tr>
<tr>
<td>ARTICLE 13</td>
<td>Safety &amp; Health</td>
</tr>
<tr>
<td>ARTICLE 14</td>
<td>Compliance</td>
</tr>
<tr>
<td>ARTICLE 15</td>
<td>Jurisdictional Disputes</td>
</tr>
<tr>
<td>ARTICLE 16</td>
<td>Local Hiring Program</td>
</tr>
<tr>
<td>ARTICLE 17</td>
<td>Management Rights</td>
</tr>
<tr>
<td>ARTICLE 18</td>
<td>Savings Clause</td>
</tr>
<tr>
<td>ARTICLE 19</td>
<td>Miscellaneous Provisions</td>
</tr>
<tr>
<td>ARTICLE 20</td>
<td>Term</td>
</tr>
<tr>
<td>Signature Page</td>
<td>26</td>
</tr>
<tr>
<td>Attachment A</td>
<td>Letter of Assent</td>
</tr>
<tr>
<td>Attachment B</td>
<td>Letter of Understanding Addressing Local Business Utilization</td>
</tr>
<tr>
<td>Attachment C</td>
<td>Side Letter Agreement and Signature Pages</td>
</tr>
<tr>
<td>Attachment D</td>
<td>Letter of Understandings Addressing Term of Agreement</td>
</tr>
<tr>
<td>Attachment E</td>
<td>Letter of Understanding Addressing Helmets to Hard Hats</td>
</tr>
</tbody>
</table>
PERALTA COMMUNITY COLLEGE DISTRICT

CONSTRUCTION

PROJECT LABOR AGREEMENT

PREAMBLE

This Project Labor Agreement ("Agreement") is entered into this 21st day of July, 2009 by and between the Peralta Community College District (hereinafter, the "District" and the Building and Construction Trades Council of Alameda County, AFL-CIO (the "Council") and the Unions signatory to this Agreement, collectively referred to as the "Unions" or "Signatory Unions", with respect to the new construction work within the scope of this Agreement as hereinafter defined.

It is understood by the parties to this Agreement that when this Agreement is executed by the Chancellor after authorization by the District’s Governing Board, it will become the policy of the District that the construction work covered by this Agreement shall be contracted exclusively to Contractors who agree to be bound by the terms of this Agreement through execution of it or the Letter of Assent (Attachment A). No practice, understanding or agreement between Contractor(s) and a Union party which is not provided for in this Agreement will be binding on any other party on Projects covered by this Agreement unless endorsed in writing by the District PLA Program Manager.

This Agreement is not intended to replace, interfere, abrogate, diminish or modify existing local or national collective bargaining agreements in effect during the duration of the Program, insofar as a legally binding agreement exists between the Contractor/Employer(s) and the affected Union(s) except to the extent that the provisions of this Agreement are inconsistent with said collective bargaining agreements, in which event, the provisions of this Agreement shall prevail.

The District, through its District PLA Program Manager, on staff or under contract, shall administer this Agreement and shall monitor compliance with it by all Contractors. For purposes of this Agreement, each Contractor recognizes and appoints the District PLA Program Manager as its agent, with full, independent authority to implement and administer this Agreement, and, when and if appropriate or necessary, negotiate amendments to this Agreement. Together with the Union parties, the District shall be considered a “negotiating party” of this Agreement. None of the terms of this Agreement, including specifically this agency designation and the Recitals set out below, shall be interpreted to cause or have the effect of creating a joint or single employer relationship between the District and any Contractor or between Contractors on this Project.

REcITALS

WHEREAS, the Peralta Community College District ("District") is considering the development and construction of various project(s) throughout the District in connection with its PLA covered Projects; and

WHEREAS, it is essential that the construction work required in connection with the PLA covered Projects be done in an efficient and economical manner so as to secure optimum
productivity and to eliminate delays in the construction operations, thus ensuring timely completion in the work undertaken by the contractors; and

WHEREAS, the District desires to enter into a project labor agreement ("Project Labor Agreement") with appropriate building and construction trade councils and related unions to be implemented and enforced on certain projects covered by the PLA; and

WHEREAS, it is the District's intent to negotiate and enter into a Project Labor Agreement with the appropriate building and construction trades council and related unions to ensure all contractors performing work on the project(s) comply with all requirements under the California Labor Code applicable to the project(s), including, but not limited to, prevailing wages and apprenticeship; and

WHEREAS, it is the intent and purpose of the Project Labor Agreement to provide, establish and put into practice effective methods for the settlement of labor disputes which may arise on the project(s) covered without strike, lockout, work stoppage, or slowdown, to the end that the project(s) shall be assured continuity of operation; and

WHEREAS, the District desires to authorize its Chancellor or his designee to negotiate and execute a Project Labor Agreement with the appropriate building and construction trades council and related unions to take any and all action necessary to further the District's interests in negotiating the Project Labor Agreement; and

WHEREAS, The parties agree that one of the primary purposes of this Agreement is to avoid the tensions that might arise on the Project if union and nonunion workers of different employers were to work side by side on the Project thereby leading to labor disputes that could delay completion of the Project, and

WHEREAS, the District reserves the right to control the site at which the Project will be constructed, and the right to coordinate project construction work and scheduling, including, where appropriate, setting uniform start times, and approving the necessity for and the times of shift work.

NOW, THEREFORE, IT IS AGREED BETWEEN AND AMONG THE PARTIES HERETO, AS FOLLOWS:

ARTICLE 1
DEFINITIONS

1.1 "Agreement" means this Project Labor Agreement.

1.2 "District" means the Peralta Community College District and the administrative staff under its Chancellor.

1.3 "Contractor(s)" means any individual, firm, partnership or corporation, or combination thereof, including joint ventures, which is an independent business enterprise and has entered into a contract with the District or any of its Contractors or subcontractors of any tier, with respect to the construction of any part of the PLA Program under contract terms and conditions approved by the District and which incorporate this Agreement.
1.4 "Construction Contract" means the public works or improvement contracts which have been approved and signed by the District and which are part of the PLA Program.

1.5 "PLA Program " means the PLA-eligible Project(s) that are all Covered Work which are all those construction contracts funded in whole or in part by bond funding, State grants, tax increment funding and all other funding that is allocated for construction and may be more generally known as public funding and identified by the District as part of the PLA Program and the construction of which was awarded to a contractor during the term of this Agreement.

1.6 "Project" is an individual construction Project that is a part of the PLA Program and designated to be covered by this Agreement.

1.7 "Union(s)" means the Building and Construction Trades Council of Alameda County, AFL-CIO ("Council") and any other labor organization signatory to this Agreement, acting in their own behalf and on behalf of their respective affiliates and member organizations whose names are subscribed hereto and who have through their officers executed this Agreement ("Signatory Unions").

1.8 "Master Agreement" means the Master Collective Bargaining Agreement of each craft Union signatory hereto covering the corresponding work between a bona fide contractor group or representative and the signatory Unions having jurisdiction over the work on the Project and that are identified and agreed to by the District PLA Program Manager and the Unions.

1.9 "District PLA Program Manager" means the person(s) and/or business entity designated by the District to oversee all phases of construction on the PLA Program and is:

1.10 "District Project Manager(s)" means the person(s) selected by the District on one or more campuses to oversee and/or inspect construction activity, as agents of the District. They will not be engaged in construction work, and their relationship to this Agreement, if any, will be through the District.

The initial term of this Agreement shall be for five (5) years, commencing with the acceptance of this agreement by both parties. At the end of this initial period, this Agreement will be reviewed and considered for extension or renewal with modifications if appropriate. The term of this Agreement will be automatically extended for additional successive five (5) year terms unless the District, prior to the expiration of any such term and, after meeting with the Council and the Unions, finds in a public hearing that the work performed has been unsatisfactory, and gives the Council and Unions notice that it will not renew this Agreement.

1.11 This Agreement shall remain in effect for any Construction Contract awarded under this Agreement but not completed by the end of the term for the duration of that Contract.

1.12 "Local area resident" means Alameda County residents of Alameda, Albany, Berkeley, Emeryville, Piedmont and especially the City of Oakland.
ARTICLE 2
PURPOSE

2.1 The purpose of this Agreement is to promote efficiency of construction operations and provide for peaceful, efficient, and binding procedures for settlement of labor disputes and grievances without strikes or lockouts, thereby promoting the public interest in assuring the timely and economical completion of the PLA covered Projects. The PLA Program is intended to increase the educational opportunities and raise student achievement through the improvement of academic learning and health and safety conditions on the campuses of the District by the development of campus facilities for students, faculty and staff.

2.2 Further, the purpose of this Agreement is to ensure that all Contractors performing work on all PLA-covered Projects will comply with all requirements under the California Labor Code and utilize resources available in the local area, including those provided by minority and women-owned enterprises.

2.3 In so doing, the parties to this Agreement establish the foundation to promote the public interest, to provide a safe work place, to ensure high quality construction, to ensure uninterrupted construction, and to secure optimum productivity, on-schedule performance and the satisfaction of the Peralta Community College District.

ARTICLE 3
SCOPE OF AGREEMENT

3.1 Covered Work: This Agreement covers, without limitation, all on-site construction, demolition, alteration, painting or repair of buildings, structures and other works and related activities for a Project that is within the craft jurisdiction of one of the Unions and that is directly or indirectly part of the Project, including, without limitation, pipelines (including those in linear corridors built to serve the Project), site preparation, survey work, soils and material inspection and testing, demolition of existing structures, and all construction, demolition or improvements required to be performed as a condition of approval by any public agency. On-site work includes work done or necessary for a Project or in temporary yards or areas adjacent to and dedicated to the Project, and at any on-site batch plant constructed solely to supply materials to the Project, when those sites are dedicated exclusively to the project. The furnishing of supplies, equipment or materials which are stockpiled for later use shall in no case be considered subcontracting, however, this Agreement shall cover and the appropriate Prevailing Wage Rate shall be paid to those workers delivering ready-mix concrete, asphalt, aggregate, sand or other fill materials that will be directly incorporated into the construction process as well as the off-hauling of debris and excess fill and/or mud shall be covered by the terms and conditions of this Agreement. Employers (including brokers), of drivers hauling such materials shall provide certified payroll records to the awarding body within ten (10) days of written request or as required by the bid specifications.

3.2 Project Description: The Agreement shall govern the award of all Construction Contracts and applies to all Covered Work which are all those construction contracts funded in whole or in part by bond funding, State grants, tax increment funding and all other funding that is allocated for construction and may be more generally known as...
public funding and identified by the District as part of the PLA Program. "Exhibit A", attached to this Agreement and incorporated herein by reference, is a list of covered Projects of the current Construction Contracts covered by this Agreement and such list shall be supplemented from time to time, when necessary during the term of this Agreement. The District has the absolute right to combine, consolidate, add, or cancel Project(s) or portions of Project(s) identified as part of the PLA Program. Should the District remove any Project listed in "Exhibit A" from the Program and thereafter authorize that construction work be commenced on the Project, the Project shall be performed under the terms of this Agreement. Once a construction Project is completed, it is no longer covered by this Agreement. For the purposes of this Agreement, a Project shall be considered completed upon the filing by the District of a Notice of Completion to the Contractor.

Further, the District may prohibit some or all work on certain days or during certain hours of the day to accommodate the ongoing operations of the District’s education facilities and/or to mitigate the effect of the ongoing Project work on the businesses and residents in the neighborhood of the Project site; and/or require such other operational or schedule changes that it may deem necessary, in its sole judgment, to effectively maintain its primary mission and to remain a good neighbor to those in the area of its campuses. Such schedule changes shall be in accordance with the Master Agreement requirements. In order to permit the Contractor(s) and Union(s) to make appropriate scheduling plans, the District will provide the PLA Program Manager, the affected Contractor(s) and Union(s) with reasonable notice of any changes it requires pursuant to this Article.

3.3 **Most Favorited Nations Clause:** No provision not contained within this Agreement shall be recognized or applied if it may be construed to apply exclusively or predominantly to work covered by this Agreement only.

3.4 **Exclusions:**

(a) The Agreement shall be limited to construction work on the PLA Program and is not intended to, and shall not govern any construction work performed at the District at anytime prior to the effective date, or after the expiration or termination of the Agreement, except as noted in Section 1.11 above that this Agreement shall continue in effect on any Project awarded under this Agreement but not completed by the end of the term of this Agreement for the duration of that Contract.

(b) The Parties acknowledge that the District may utilize $500,000 of funding annually to perform maintenance work on maintenance and operations projects for the duration of this Agreement.

Contractors or subcontractors with “excluded contracts” shall not be subject to the terms of this Agreement but shall meet all State and Federal laws and regulatory requirements governing construction for the project where they are performing work. All excluded contractors will meet the Certified Payroll requirements within the 10 day period required by State Law for submittal of requested Certified Payroll information. The District shall supply the Union(s) with the
inspector's log and all other documents used for oversight of the project when such information is requested.

It is further agreed that, other than the $500,000 per year maintenance exclusion, the following seven projects are the only projects that shall be excluded from the Agreement.

1. Laney: Smart Media, Project # 02314
2. Laney: Buildings F&G Computer Labs, Project # 02314
3. Laney: Photo Lab Gallery Lighting, Project # 02314
4. Merritt: Swing Space (A129), Project #
5. Merritt: Horticulture Department Improvements, Project # 02303-110
6. District Wide: ADA Upgrades, Project # unassigned
7. District Wide: Elevator Cabs, controls and finishes upgrades, Project # 02326

(c) The Agreement is not intended to, and shall not affect the operation or maintenance of the District.

(d) This Agreement shall not apply to a Contractors' executives, managerial employees, engineering employees, supervisors above the classification of general foreman, or any office and clerical employees.

(e) This Agreement shall not apply to employees of the District.

(f) This Agreement is not intended to, and shall not affect equipment and machinery owned or controlled and operated by the District for work not covered by this Agreement.

(g) This Agreement excludes all off-site manufacture and handling of equipment, machinery or materials (except for aggregates, sand or other fill material which are either directly incorporated into the construction process, or directly removed from the site of construction)

(h) Offsite maintenance of leased equipment and on-site supervision of such work is excluded from the Agreement.

(i) The Agreement is not intended to, and shall not affect any work by employees of the District or its contractors involved in general maintenance, emergency repair, and/or cleaning work, except as specifically covered by this Agreement.

(j) In accordance with 3.4(b) and in emergency situations, at the sole option of the District, the Agreement shall not apply to contracts awarded under the Public Contracts Code §20654 and §20655, or any emergency public works resolutions or any project using federal funds where prohibited by law.

(k) Work covered by the Agreement within the craft jurisdiction of the Elevator Constructors will be performed under the terms of the National Agreement of the International Union of Elevator Constructors except that Articles 6, 10, 14 and 15 of the Agreement shall prevail and be applied to such work.
(I) It is the legal obligation of the District to obtain the most competitive bids while maintaining the conditions of the Agreement. To ensure that a competitive bid is received from a range of general contractors, the Building and Construction Trades Council of Alameda County, AFL-CIO shall assist the District in soliciting interested parties in bidding on the Project(s). Additionally, the District recognizes that multiple subcontractor quotations of bids ensure the most competitive overall bid. The Building and Construction Trades Council of Alameda County, AFL-CIO shall assist the District in encouraging and soliciting local and other subcontractors in bidding to interested general contractors. The District reserves the right, without reservation, to reject all bids and re-bid the Project.

ARTICLE 4
EFFECT OF AGREEMENT

4.1 By executing this Agreement, the Unions and the District agree to be bound by each and all of the provisions of this Agreement. The provisions of this Agreement shall apply to all covered work, notwithstanding the provisions of any other local, area and/or national agreements which may conflict with or differ from the terms of this Agreement. The District and each Signatory Union shall agree upon the local collective bargaining agreement to be designated as the applicable Master Agreement for work covered by this Agreement. Where a subject covered by the provisions of this Agreement is also covered by a Master Agreement, the provisions of this Agreement shall prevail. Where a subject is covered by the provisions of a Master Agreement and is not covered by this Agreement, the provisions of the Master Agreement shall prevail. Any dispute as to the applicable source between this Agreement and any Master Agreement for determining the wages, hours and working conditions of employees on this Project shall be resolved under the procedures established in Article 12. This Agreement represents the complete understanding of the parties, and no Contractor is or will be required to sign any other agreement with a signatory union as a condition of performing work within the scope of this Agreement. No practice, understanding or agreement between a Contractor and a Union party which is not specifically set forth in this Agreement will be binding on any other party unless endorsed in writing by the District or the District’s PLA Program Manager.

4.2 This Agreement shall only be binding on the signatory parties hereto and shall not apply to the parents, affiliates, subsidiaries, or other ventures of any such party.

4.3 Each Contractor(s) shall alone be liable and responsible for its own individual acts and conduct and for any breach or alleged breach of this Agreement.

4.4 It is mutually agreed by the parties that any liability by a Signatory Union(s) to this Agreement shall be several and not joint. Any alleged breach of this Agreement by a signatory Union(s) shall not affect the rights, liabilities, obligations and duties between the signatory Contractor(s) and the other Union(s) party to this Agreement.
ARTICLE 5
SUBCONTRACTS

5.1 The District, PLA Program Manager, and/or Contractors, as appropriate, have the absolute right to award contracts or subcontracts on this Project notwithstanding the existence or non-existence of any collective bargaining agreements between the prospective contractor and any union party, and provided that such contractor is willing, ready and able to comply with this Agreement. Such contractor shall execute a Letter of Assent, should it be awarded work covered by this Agreement.

5.2 Subcontractors of any tier shall become a party to this Agreement by signing the Letter of Assent (Attachment A). By signing the Letter of Assent, a subcontractor to a Contractor does not thereby establish any contractual relationship with the District, except for this Agreement, and the District shall not become party to nor become responsible for the performance of the construction subcontract between the Contractor and its subcontractor(s).

5.3 The District and each Contractor(s) agree that neither it nor any of its subcontractors will subcontract any work to be done on PLA covered Projects except to a person, firm, or corporation who is or becomes party to the Agreement. Any Contractor(s) working on the Project shall, as a condition to working on the Project, become signatory to and perform all work under the terms of this Agreement.

5.4 A subcontractor is defined as any person, firm or corporation who agrees under contract with the Contractor(s), or a subcontractor of the Contractor, to perform on the Project, any part or portion of the construction work covered by the Construction Contract, including the operating of construction equipment, performance of labor and/or installation of materials. Trucking firms are included as subcontractors when hauling materials in the execution of the Project as provided for in Article 3.1.

5.5 The Contractor(s) has the primary obligation for performance of all conditions of this Agreement. This obligation cannot be relieved, evaded or diminished by subcontracting. Should the Contractor(s) elect to subcontract, the Contractor(s) shall continue to have such primary obligation.

5.6 A Contractor(s) who provides in the subcontract that the subcontractor will pay the wages and benefits and will observe the hours and all other terms and conditions of this Agreement and who requires its subcontractor(s) to execute a Letter of Assent, shall not be liable for any delinquency by such subcontractor in the payment of any wages or fringe benefits provided herein, except as may be required by State or Federal law.

(a) The Contractor(s) will give written notice and a copy of the Letter of Assent to the Council of any subcontract involving the performance of work covered by this Agreement within either five (5) days of entering such subcontract or before the subcontractor commences work on the Project, whichever occurs first, and shall specify the name and address of the subcontractor. Written notice at a Preconstruction Conference shall be deemed written notice under this provision for those subcontractors listed at the Prejob Meeting only.
(b) Thereafter, if such subcontractor should become delinquent in the payment of any wages or benefits as above specified, the Trust Fund shall immediately give written notice thereof to the Contractor(s) and to the subcontractor specifying the nature and amount of such delinquency.

(c) The provision of this Section 5.6 shall be applied only to the extent permitted by law and, notwithstanding any other provision of the Agreement, no aspect of the subcontractors' clause, including its enforcement, may be enforced by or subject to strike or picketing.

(d) If the Contractor(s) selects the subcontractor(s) and is signatory to a Master Agreement that provides the higher level contractor shall remain liable for the defaults of the subcontractor, nothing in this Agreement shall interfere with the Contractor(s)' responsibilities and liabilities under the Master Agreement.

5.7 (a) With regard to any employer that is independently signed to any Master Labor Agreement ("MLA"), this Project Labor Agreement shall in no way supersede or prevent the enforcement of any subcontracting clause contained in such MLA, except as specifically set forth in subsection (b) of this section. Any such subcontracting clause in an MLA shall remain and be fully enforceable between each Union and its signatory employers, and no provision of this Project Labor Agreement shall be interpreted and/or applied in any manner that would give this Project Labor Agreement precedence over subcontracting obligations and restrictions that exist between Unions and their respective signatory employers under an MLA, except as specifically set forth in subsection (b) of this section.

(b) If a Union (hereafter "aggrieved union") believes that an assignment of work on this Project has been made improperly by a contractor or subcontractor, even if that assignment was as a result of another Union's successful enforcement of the subcontracting clause in its MLA, as permitted by subsection (a) of this section, the aggrieved union may submit a claim under the jurisdictional resolution process contained in Article 15 of this Project Labor Agreement, and the decision rendered as part of that process shall be enforceable to require the contractor or subcontractor that made the work assignment to assign that work prospectively to the aggrieved union. An award made to a Union under the subcontracting clause of its MLA, as permitted pursuant to subsection (a) of this section, shall be valid and fully enforceable by that Union unless it conflicts with a jurisdictional award made pursuant to this Project Labor Agreement. If the award made under the MLA conflicts with the jurisdictional award, the award of any damages under the former shall be null and void ab initio.

ARTICLE 6
WORK STOPPAGES, STRIKES, SYMPATHY STRIKES AND LOCKOUTS

6.1 The Unions, District and Contractor(s) agree that for the duration of this Agreement:

(a) There shall be no strikes, sympathy strikes, work stoppages, picketing, handbilling or otherwise advising the public that a labor dispute exists, or slowdowns or disruptions of any kind, for any reason, by the Union(s) or employees employed on a Project, at the job site of the Project or at any other facility of the District because of a dispute on a Project or other projects involving
a contractor or subcontractor, of any tier, or due to any labor dispute arising at
the project site or any other District site. Disputes arising between the Union(s)
and Contractor(s) on other District projects are not governed by the terms of this
Agreement, except that the existence of such disputes or actions taken in
furtherance of such disputes may not be used to affect work on projects covered
by this Agreement. A Union may withhold labor (but not picket) due to a
Contractor’s or subcontractor’s failure to make Trust Fund contributions or failure
to meet its payroll on this Project, and such withholding of labor shall not be
considered a violation of this Article. In the case of non-payment of Trust Fund
contributions, a Union shall give the General Contractor and the District
Representative five (5) business days notice prior to withholding labor from the
Contractor or Sub-contractor during which time, the General Contractor shall
have the opportunity to cure the default.

(b) As to employees employed on a Project, there shall be no lockout of any kind by
a Contractor(s) covered by the Agreement.

(c) If a Master Agreement between a contractor(s) and the Union(s) expires before
the Contractor(s) completes the performance of a Construction Contract and the
Union or contractor(s) gives notice of demands for a new or modified Master
Agreement, the Union(s) agrees that it will not strike the Contractor(s) on said
contract for work covered under the Agreement and the Union(s) and the
Contractor(s) agree that the expired collective bargaining agreement shall
continue in full force and effect for work covered under the Agreement until a new
or modified Master Agreement is reached between the Union(s) and Contract
Employer. If the new or modified Master Agreement reached between the
Union(s) and contractor(s) provides that any terms of compensation of the
Master Agreement shall be uniformly retroactive for all contractors bound to the
Master Agreement, the Contractor(s) agrees to comply with any retroactive terms
of the new or modified Master Agreement which is applicable to employees
employed on a Project during the interim period within seven (7) days.

6.2 Any party to the Agreement may institute the following procedure, in lieu of or in addition
to any other action at law or equity, when a breach of this Article is alleged to have
occurred:

(a) A party invoking this procedure shall notify Gerald McKay, as the permanent
arbitrator, or, Thomas Angelo, as the alternate under this procedure. In the event
that the permanent arbitrator is unavailable at any time, the alternate will be
contacted. If neither is available, then a selection shall be made from the list of
arbitrators in Article 12.2. Notice to the arbitrator shall be by the most expeditious
means available, with notices by e-mail, facsimile or telephone to the party
alleged to be in violation and to the Building and Construction Trades Council of
Alameda County, AFL-CIO.

(b) Upon receipt of said notice, the designated arbitrator named above or his/her
alternate will designate a place for, schedule and hold a hearing within twenty-
four (24) hours.
(c) The arbitrator shall notify the parties by facsimile or telephone of the place and time for the hearing. Said hearing shall be completed in one session, which, with appropriate recesses at the arbitrator's discretion, shall not exceed twenty-four (24) hours unless otherwise agreed upon by all parties. A failure of any party to attend said hearings shall not delay the hearing of evidence or the issuance of any award by the arbitrator.

(d) The sole issue at the hearing shall be whether or not a violation of this Article of the Agreement has occurred. The arbitrator shall have no authority to consider any matter of justification, explanation or mitigation of such violation or to award damages, which issue is reserved for court proceedings, if any. The award shall be issued in writing within three (3) hours after the close of the hearing, and may be issued without a written opinion. If any party desires a written opinion, one shall be issued within fifteen (15) days, but its issuance shall not delay compliance with or enforcement of the award. If the arbitrator determines there exists a violation of this Article the arbitrator shall order cessation of the violation of this Article and other appropriate relief and such award shall be served on all parties by hand or registered mail upon issuance.

(e) The award shall be final, binding and non-revisable as to the merits. Such award may be enforced by any Court of competent jurisdiction upon the filing of this Agreement and all other relevant documents referred to above in the following manner. Written notice of the filing of such enforcement proceedings shall be given to the other party in the proceeding to obtain a temporary order enforcing the arbitrator's award as issued under Section 6.2 (d) of this Article, all parties waive the right to a hearing and agree that such proceedings may be ex parte. Such agreement does not waive any party's right to participate in a hearing for a final order or enforcement. The Court's order or orders enforcing the arbitrator's award shall be served on all parties by hand or delivered by certified mail.

(f) Any rights created by statute or law governing arbitration proceedings inconsistent with the above procedure or which interfere with compliance are waived by the parties.

(g) The costs of the arbitration, including the fee and expenses of the Arbitrator, shall be borne by the losing party.

(h) The District PLA Program Manager is a party of interest in all proceedings arising under this Article and shall be sent contemporaneous copies of all notifications required by these Articles, and at its option, may participate as a full party in any proceeding initiated under these articles.

(i) If the arbitrator determines in accordance with this article that a work stoppage has occurred, the respondent Union(s) shall, within eight (8) hours of receipt of the award, direct all the employees they represent on the Project to immediately return to work. If the craft(s) involved does not return to work by the beginning of the next regularly scheduled shift following such eight (8) hour period after receipt of the arbitrator's award, and the respondent Union(s) have not complied with their obligation to immediately instruct, order, and use their best efforts to cause a cessation of the violation and return of the employees they represent to
work, the respondent Union(s) shall each pay a sum as liquidated damages to
the District, and each shall pay an additional sum per shift for each shift
thereafter on which the craft(s) has not returned to work.

Similarly, if the arbitrator determines in accordance with this article that a lock-out
has occurred, the respondent Contractor(s) shall, within eight (8) hours of receipt
of the award, return all of the affected employees to work on the Project, or
otherwise correct the violation as found by the arbitrator. If the respondent
Contractor(s) do not take such action by the beginning of the next regularly
scheduled shift following the eight (8) hour period, each respondent Contractor(s)
shall pay a sum as liquidated damages to the affected Union(s) (to be
apportioned among the affected employees and the benefit funds to which
contributions are made on their behalf, as appropriate and designated by the
Arbitrator) and each shall pay an additional sum per shift for each shift thereafter
in which compliance by the respondent Contractor(s) has not been completed.

The Arbitrator shall retain jurisdiction to determine compliance with this article
and to establish the appropriate sum of liquidated damages, which shall not be
less than one thousand dollars ($1,000.00) nor more than fifteen thousand
dollars ($15,000.00) for each shift.

ARTICLE 7
PRE-JOB MEETING

7.1 A pre-job meeting shall be held at the Building Trades offices prior to the
commencement of each Construction Contract to establish the scope of work in each
Contractor's Construction Contract. It shall be the responsibility of the Prime
Contractor(s) to set such meeting. The District will notify the Union(s) of award of all
covered projects prior to commencement of work. Such pre-job meeting shall be
attended by a representative each from the participating Contractor(s) and Union(s) and
the District PLA Program Manager. When a Construction Contract has been let to a
Contractor, a pre-job meeting shall be required unless waived by agreement of the
Council, the Contractor and the District.

7.2 All work assignments shall be disclosed by each Contractor at the pre-job meeting. The
Contractor(s) shall notify the District PLA Program Manager at least two weeks before
starting work under the Agreement, and the District PLA Program Manager shall
coordinate the scheduling of the pre-job meeting with the Council, the Contractor(s) and
the affected Union(s).

ARTICLE 8
NONDISCRIMINATION

8.1 The Union(s) and Contractor(s) shall not discriminate against any employee or applicant
for employment because of race, creed, color, sex, sexual orientation, national origin,
age, religion, disability as identified in the Americans with Disabilities Act, union or non-
union membership or any other basis recognized by law.
ARTICLE 9
UNION RECOGNITION

9.1 The Contractor(s) recognize the Union(s) as the sole bargaining representative of all craft employees working within the scope of the Agreement. The Parties acknowledge that the collective bargaining relationship so established is a "pre-hire" relationship permitted by Section 8(f) of the National Labor Relations Act, except that this provision does not change any pre-existing Section 9(a) collective bargaining relationship that exists between any Contractor and Union parties to this Agreement.

9.2 No employee covered by the Agreement can be required to join any Union as a condition of being first employed on the Project; provided, however, that an employee who is a member of the referring Union at the time of the referral shall maintain that membership while employed on a Project subject to this Agreement. All employees shall, however, on or before the 8th day of consecutive or cumulative employment on the Project pay the uniform initiation fees and dues of the applicable craft Union and shall comply with the Union Recognition provision for the period during which they are performing Project construction work on the property of the District. The Contractor(s) agree to deduct initiation fees, Union dues or representation fees from the pay of any employee who executes a voluntary authorization for such deductions and to remit the dues and fees to the applicable Union or Council.

ARTICLE 10
REFERRAL

10.1 The selection of craft foremen and general foremen shall be entirely the responsibility of the Contractor(s), it being understood that in the selection of such foremen, the Contractor(s) will give first consideration to the qualified individuals available in the local area. Foremen and general foremen shall take orders from the designated Contractor(s) representatives.

The Unions shall be the first source of referral of employees to the Project and the contractor(s) agree to be bound by the lawful hiring hall rules and procedures of the respective Union(s). Contractors agree to be bound by the hiring practices of the respective Unions, including the hiring of apprentices, and to utilize their registration facilities and referral systems when workers are available, capable and willing to work on PLA covered projects.

10.2 The Contractor(s) shall have the unqualified right to select and hire directly all supervisors above general foreman it considers necessary and desirable, without such persons being referred by the Union(s).

10.3 In the event that referral facilities maintained by the Unions are unable to fill the requisition of a Contractor(s) for employees within a forty-eight (48) hour period (Saturday, Sundays and Holidays excluded) after such requisition is made by the Contractor(s), the Contractor(s) shall be free to obtain work persons from any source. Unions will exert their utmost efforts to recruit sufficient numbers of skilled craft persons to fulfill the requirements of the Contractor(s). The parties to this Agreement support the development of increased numbers of skilled construction workers from the residents of Alameda County; residents of Alameda, Albany, Berkeley, Emeryville, Piedmont and especially
the City of Oakland; to meet the needs of the PLA Program and the requirements of the industry generally. Toward that end, the Unions agree to encourage the referral and utilization, to the extent permitted by law and the hiring hall procedures, of qualified Alameda County residents as journeymen and apprentices on this PLA Program and, consistent with the State-approved Apprenticeship Standards, encourage entrance into such apprenticeship and training programs as may be offered by the Peralta Community College District or operated by the signatory Unions.

10.4 The Parties recognize the District’s commitment to provide opportunities to participate on the Project to emerging small business enterprises that may not have previously had a relationship with the Unions signatory to this Agreement. To ensure that such enterprises will have an opportunity to employ their "core" employees on this Project, the parties agree that in those situations where a Contractor not a party to a current collective bargaining agreement with the signatory Union having jurisdiction over the affected work is a successful bidder, the Contractor may request by name, and the local will honor, referral of persons who have applied to the local union for Project work and who demonstrate the following qualifications:

(a) possess any license required by state or federal law for the Project work to be performed;

(b) have worked a total of at least one thousand (1000) hours in the construction craft during the prior three (3) years;

(c) were on the Contractor’s active payroll for at least ninety (90) out of the one-hundred eighty (180) calendar days prior to the contract award; and

(d) have the ability to perform safely the basic functions of the applicable trade.

(e) The Union will refer to such Contractor one journeyman employee from the hiring hall out-of-work list for the affected trade or craft, and will then refer one of such Contractor’s “core” employees as a journeyman and shall repeat the process, one and one, until such Contractor’s crew requirements are met or until such Contractor has hired five (5) "core" employees, whichever occurs first. Thereafter, all additional employees in the affected trade or craft shall be hired exclusively from the hiring hall out-of-work list(s). For the duration of the Contractor’s work the ratio shall be maintained and when the Contractor’s workforce is reduced, employees shall be reduced in the same ratio of core employees to hiring hall referrals as was applied in the initial hiring.

ARTICLE 11
WAGES AND BENEFITS

11.1 All Contractors, agree to pay contributions to the established vacation, pension and other form of deferred compensation plan, apprenticeship, and health benefit Trust Funds established by the applicable Master Agreement(s) for each hour worked on the Project in the amounts designated in the Master Agreements of the appropriate local Unions for all of those benefits and contributions contained in the applicable prevailing wage determination. The Contractor(s) shall not be required to pay contributions to any
other trust funds that are not contained in the published prevailing wage determination to satisfy their obligation under this Article except those Contractor(s) who are signatory to the Master Agreements with the respective trades shall continue to pay all trust fund contributions as outlined in such Master Agreements.

11.2 By signing a Letter of Assent binding this Agreement, the Contractor(s) adopt and agree to be bound by the written terms of the legally established Trust Agreements, specifying the detailed basis on which payments are to be made into, and benefits paid out of, such Trust Funds.

11.3 **Wages, Hours, Terms and Conditions of Employment:** The wages, hours, classifications and other terms and conditions of employment on a Project shall be governed by the Master Agreement of the respective craft Unions, copies of which shall be on file with the District, to the extent such Master Agreement is consistent with the applicable prevailing wage determination and this Agreement.

(a) At all times while working under the Agreement, the Contractor(s) is obligated to make compensation payments and benefit contributions to or on behalf of the employee in a total amount no less than required by the applicable prevailing wage.

(b) Each Contractor and subcontractor shall be required to certify in writing that it has paid all wages and benefit contributions due and owing prior to receipt of its final payment and/or retention.

(c) Contractors of whatever tier shall make regular and timely contributions required by this section in the amounts set forth in the appropriate prevailing wage determination and on the time schedule required by the Master Agreement. Delinquency in remission of contributions is a breach of this Agreement. If a Contractor or subcontractor is delinquent in any such contributions, the Union or the Trust Fund shall provide timely notification to District or the District PLA Program Manager after efforts by the Fund to resolve the delinquency have been exhausted, and provide documentary evidence of the delinquency endorsed by the Fund. Upon such notification, the District or the District PLA Program Manager will attempt to resolve the delinquency among the Contractor or subcontractor, the Union and the Fund. If the delinquency is not resolved within ten (10) working days thereafter, the Contractor, in the case of a delinquent subcontractor, shall withhold an amount to cover the delinquency from any retained funds otherwise due and owing to the subcontractor and shall not release such withholding until the subcontractor is in compliance, provided, however, that if the delinquent amount is undisputed in whole or in part between the Fund and the delinquent subcontractor, the Contractor shall issue a joint check payable to the Fund and the subcontractor in the amount of the undisputed delinquency. In the case of a delinquent prime Contractor, the District or the District PLA Program Manager shall withhold, in an appropriate amount, any funds due and owing to the Contractor. Pursuant to the announced commitment of the District, and to the extent permitted by law, the Contractor shall be subject to withholding of retained amounts which may only be released upon the Contractor's resolution of the delinquency as evidenced by a written statement endorsed by the Fund. Where there is no dispute as to the amount of the delinquency, retained amounts may be released by a joint check payable to the Contractor and the Fund in the amount of any undisputed delinquency.
ARTICLE 12
GRIEVANCE ARBITRATION PROCEDURE

12.1 Any dispute alleging violation of this Agreement, including the applicable Master Agreement, but excluding jurisdictional disputes and alleged violations of Article 6, shall be considered a grievance and resolved in accordance with the procedures set forth herein. A signatory Contractor and Union shall agree to resolve a grievance that involves solely the interpretation of the Master Agreement under the grievance and arbitration provisions of the Master Agreement. A grievance shall be considered null and void if not brought in writing and delivered to both the involved party and Program Manager within ten (10) working days after the incident that initiated the alleged grievance was discovered. The term ‘working days’ as used in this section shall exclude Saturdays, Sundays or holidays regardless of whether any work is actually performed on such days.

12.2 **Grievances shall be settled according to the following procedures:**

**Step 1:** Within five (5) business days after the receipt of the written notice of the grievance, the Business Representative of the involved Local Union or Council, or its designee, or the representative of the employee, and the representative of the involved Contractor(s) shall confer and attempt to resolve the grievance.

**Step 2:** In the event that the representatives are unable to resolve the dispute within the five (5) business days after its referral to Step 1, either involved party may submit it within five (5) business days to the Grievance Committee, which shall meet within five (5) business days after such referral (or such longer time as is mutually agreed upon by all representatives on the Grievance Committee), to confer in an attempt to resolve the grievance.

The Grievance Committee shall be comprised of one (1) representative of the District; one (1) representative of the District PLA Program Manager; and two (2) representatives of the Alameda County Building and Construction Trades Council. If the dispute is not resolved within such time (five (5) business days after its referral or such longer time as mutually agreed upon), it may be referred within five (5) business days thereafter by either party to Step 3.

**Step 3:** Within five (5) business days after referral of a dispute to Step 3, the representatives shall choose a mutually agreed upon arbitrator for final and binding arbitration. The parties agree that an arbitrator shall be selected by the alternate striking method from the following list noted. The selection party who shall strike the first name shall be selected by the toss of a coin.

1. Barbara Kong-Brown
2. Thomas Angelo
3. William Riker
4. Gerald McKay
5. Jerri-Lou Cossack

The decision of the Arbitrator shall be binding on all parties. The Arbitrator shall have no authority to change, amend, add to or detract from any provisions of the Agreement. The expense of the Arbitrator shall be borne by the losing party. The Arbitrator shall arrange for a hearing on the earliest available date from the date of his/her selection. A decision shall be given to the parties within five (5) calendar days after completion of the hearing unless such time is extended by mutual agreement. A written opinion may be requested by a party from the presiding Arbitrator.

The time limits specified in any step of the Grievance Procedure set forth in Section 12.2 may be extended by mutual agreement of the parties initiated by the written request of one party to the other, at the appropriate step of the Grievance Procedure. However, failure to process a grievance, or failure to respond in writing within the time limits provided above, without an agreed upon extension of time, shall be deemed a waiver of such grievance without prejudice, or without precedent to the processing of and/or resolution of like or similar grievances or disputes.

In order to encourage the resolution of disputes and grievances at Steps I and 2 of this Grievance Procedure, the parties agree that such settlements shall not be precedent setting.

ARTICLE 13
SAFETY AND HEALTH

13.1 In accordance with the requirements of the Occupational Safety and Health Act, it shall be the exclusive responsibility of each Contractor on the job site to ensure safe working conditions for its employees and their compliance with any safety rules contained herein or established by the District, its representatives, and/or the Contractor(s). Nothing in this Agreement shall be interpreted to make the Unions liable for safety violations that may occur on the Project. It is understood that the employees have an individual obligation to use diligent care to perform their work in a safe manner and to protect themselves and the property of the Contractor(s) and the District. An employee's failure to satisfy his/her obligation under this article will subject him/her to corrective action.

13.2 In order to minimize any disturbance to the student population, Contractors' employees are to restrict their presence to the Project site and not visit other areas of the campus to the extent possible of carrying out their duties.

ARTICLE 14
COMPLIANCE

14.1 It shall be the responsibility of the Contractor(s) and Union(s) to investigate and monitor compliance with the provisions of the Agreement contained in Article 11. Nothing in this agreement shall be construed to interfere with or supersede the usual and customary
legal remedies available to the Unions and/or employee benefit Trust Funds to collect
delinquent Trust Fund contributions from Contractors on the Project.

14.2 The District, through the services of the District PLA Program Manager, shall monitor
compliance enforcement measures to ensure the Contractor(s) compliance with the
Construction Contract conditions of the Agreement.

14.3 The parties to this Agreement intend to ensure the best possible harmony in labor-
management relations on the Project and recognize that the Administrator shall strive to
courage the Parties toward that end.

In an effort to achieve that labor-management harmony the Parties shall establish a four
(4) person Joint Administrative Committee. This Committee shall be comprised of two (2)
representatives selected by the Administrator and two (2) from the Unions, one of whom
will be a representative from the Council. Each representative shall designate an
alternate who shall serve in his or her absence for any purpose contemplated by this
Agreement. The Committee will be co-chaired by the Administrator and the
representative from the Council.

The Joint Administrative Committee shall meet as required to review the implementation
of the Agreement and the progress of the Project and resolve problems and/or
grievances by majority vote with such resolutions to be binding on all signatories of the
Agreement as provided herein. Any question regarding the meaning, interpretation, or
application of the provisions of this Agreement shall be first referred directly to the Joint
Administrative Committee for resolution. The Joint Administrative Committee will meet
upon the call of either co-chair, upon provision of sufficient notice of the issue to be
discussed.

ARTICLE 15
JURISDICTIONAL DISPUTES

15.1 The Contractor/Employer(s) shall assign work on the basis of traditional craft
jurisdictional lines.

15.2 There shall be no strikes, picketing, sympathy strikes, leafleting or work disruption or
stoppages of any kind because of jurisdictional disputes.

15.3 When conflicting claims for work on the Project are submitted to a Contractor/Employer,
the dispute shall be resolved pursuant to agreed upon Jurisdictional Dispute Procedures,
as adopted by the National Building & Construction Trades Department, or by the
Mechanical Allied Crafts (MAC), or by the Northern California Basic Crafts Alliance
(NCBCA) Jurisdictional Dispute Resolution Procedures. It is understood by the parties
that these Procedures might be amended from time to time. In the event a jurisdictional
dispute arises between two or more Unions affiliated with the National Building &
Construction Trades Department, such dispute shall be resolved by the procedure set
forth in the Plan for the Settlement of Jurisdiction Disputes in the Construction Industry.
In the event a jurisdictional dispute arises between two or more Unions affiliated with the
MAC, such dispute shall be resolved under the MAC Procedure. In the event a
jurisdictional dispute arises between two or more Unions affiliated with the NCBCA, such
dispute shall be resolved under the NCBCA Procedure.
15.4 In the event a jurisdictional dispute arises between two or more Unions that are not stipulated to the same jurisdictional dispute resolution procedure, the dispute shall be handled in accordance with and resolved as follows:

15.5 In the event a jurisdictional dispute arises while the parties are attempting to negotiate an alternative resolution mechanism either party may refer the jurisdictional dispute to the General Presidents of the affected unions, and if the General Presidents cannot resolve the dispute within five (5) business days of the dispute being referred to them for resolution, the dispute shall be resolved as follows:

15.6 The dispute shall be submitted to arbitration before an arbitrator selected from the Panel of Permanent Arbitrators for resolution. The Panel of Permanent Arbitrators shall be composed of: David Nevins, Gerald McKay, Robert Hirsch, William Riker and Barry Winograd. The Arbitrator shall be selected by alternately striking the names of Arbitrators from the list of five (5) permanent Arbitrators. The order of striking names from the list of arbitrators shall be determined by a coin toss, the winner of which shall decide whether they wish to strike first or second. Such striking shall take place within three (3) days. If a party does not respond within three (3) days, this means any Arbitrator from the list is acceptable. The remaining Arbitrator shall serve as the Arbitrator who shall hear the dispute on an expedited basis, but in no case longer than seven (7) days, and resolve the dispute. The Arbitrator shall render his decision within three (3) days of the hearing.

15.7 **In rendering his decision, the Arbitrator shall determine:**

1. First, whether a previous agreement of record or applicable agreement, including a disclaimer agreement, between the National and International Unions to the dispute governs;

2. Only if the Arbitrator finds that the dispute is not covered by an appropriate or applicable agreement of record or agreement between the crafts to the dispute, he shall then consider the established trade practice in the industry and prevailing practice in the locality. Where there is a previous decision of record governing the case, the Arbitrator shall give equal weight to such decision of record, unless the prevailing practice in the locality in the past ten (10) years favors one craft. In that case, the Arbitrator shall base his decision on the prevailing practice in the locality. Except, that if the Arbitrator finds that a craft has improperly obtained the prevailing practice in the locality through raiding, the undercutting of wages or by the use of vertical agreements, the Arbitrator shall rely on the decision of record and established trade practice in the industry rather than the prevailing practice in the locality.

3. Only if none of the above criteria is found to exist, the Arbitrator shall then consider that because efficiency, cost or continuity and good management are essential to the well being of the industry, the interests of the consumer or the past practices of the employer shall not be ignored.

4. The Arbitrator shall comply with the Code of Professional Responsibility for Arbitrators of Labor Management Disputes jointly adopted by the National Academy of Arbitrators, the American Arbitration Association and the Federal Mediation and
Conciliation Service. The Arbitrator shall set forth the basis for his decision and shall explain his findings regarding the applicability of the above criteria. If lower-ranked criteria are relied upon, the Arbitrator shall explain why the higher-ranked criteria were not deemed applicable. The Arbitrator’s decision shall only apply to the job in dispute.

5. Agreements of record are applicable only to the parties signatory to such agreements. Decisions of record are applicable to all trades.

6. The Arbitrator is not authorized to award back pay or any other damages for a misassignment of work. Nor may any party to this Plan bring an independent action for back pay or any other damages, based upon a decision of an Arbitrator.

7. Each party to the arbitration shall bear its own expense for the arbitration and agrees that the fees and expenses of the Arbitrator shall be borne by the losing party or parties.

15.8 ENFORCEMENT

1. Any decision or interpretation rendered by an arbitrator shall be immediately accepted and complied with by all parties subject to this Agreement. If a party fails to accept and comply with a decision or interpretation rendered by an arbitrator, any party to the dispute may seek court enforcement of the decision or ruling.

2. The Arbitrator shall have no authority to undertake any action to enforce his decision after a hearing beyond informing the affected parties of his decision. Rather, it shall be the responsibility of the prevailing party to seek appropriate enforcement of a decision. The prevailing party in any enforcement proceeding shall be entitled to recover its reasonable costs and attorney fees from the non-prevailing party. In the event the Arbitrator is made a party to, or is otherwise required to participate in any such enforcement proceedings for whatever reason, the non-prevailing party shall bear all reasonable costs, attorney fees, and any other expenses incurred by the Arbitrator in those proceedings.

15.9 If there is a strike, sympathy strike, work stoppage, slowdown, picketing or otherwise advising the public that a labor dispute exists or interference with the progress of the Project by reason of a jurisdictional dispute, the Contractor/Employer (who has complied with the Arbitrator’s decision) affected by said Union conduct, shall have the right to seek full legal redress in the Courts of California, including injunctive relief and damages.

ARTICLE 16
LOCAL HIRING PROGRAM

16.1 The objective of the District in creating a Local Hiring Program is to enhance and encourage employment opportunities for local area residents to enable effective pathways into the construction industry and into Union Apprenticeship programs. To that end, as part of the Agreement, the District establishes goals for the hiring and retention of local area residents.
16.2 **Local Hiring Program Goals**

(a) Hiring Priority:

1. Fifty percent (50%) of all hours worked on covered projects, on a craft by craft basis will be worked by local area residents as defined in Article 1, Section 1.12, if such workers are available, capable and willing to work on the project and dispatched through the utilization of the normal hiring hall procedures.

2. (i) Subject to any restrictions contained in law, the Parties agree to a goal that apprentices will perform twenty percent (20%) of the total craft work hours unless an applicable Schedule A provides for a greater percentage. The Union agrees to cooperate with the Contractor in furnishing apprentices as requested and they shall be properly supervised and paid in accordance with provisions contained within the Schedule A.

(ii) The parties agree to a goal that only local area residents as defined in Article 1, Section 1.12 shall be utilized as apprentices. The Contractor shall make good faith efforts to reach this goal through the utilization of normal hiring hall and apprentice procedures and, when appropriate, the identification of potentially qualified apprentices through community-based organizations working in collaboration with the apprentice programs. The Unions are committed to working with the contractors and community-based organizations to reach these goals.

(iii) All apprentices referred to Contractors under this Agreement shall be enrolled in State of California approved Joint Apprenticeship Programs.

16.3 (a) Contractors may achieve up to fifty percent (50%) compliance with these local hiring goals and timelines through the employment, of local area resident journeymen, existing apprentices and newly indentured resident apprentices on non-District projects during the time period that the Contractors are working on District Projects.

16.4 **Good Faith Efforts:**

A Contractor and its subcontractors must take the following good faith steps to demonstrate that it has made every effort to reach the local hiring goals of the District. The contractor shall attend scheduled pre-job meetings held by the PLA Program Manager pertaining to work they will performed. The contractor must submit written workforce projections and projected work hours on a craft by craft basis.

(a) Within seven calendar days after the Notice to Proceed, the Contractor shall meet with the PLA Program Manager to present its plan for reaching the local hiring goals.

(b) The Contractor shall notify the PLA Program Manager by US mail or email, if a Union hiring hall cannot, upon request of the contractor, dispatch local area residents, as defined herein. It shall be the responsibility of the contractor to retain all evidence of such good faith efforts.
(c) The contractor shall use the “Name Call,” “Rehire” or other available hiring hall procedures to reach goals.

(d) The contractor shall use local CBOs working in collaboration with the apprentice programs for recruiting local residents to apprentice programs specified in section 16.2.(c), if a union cannot provide local area residents as requested, and in conformity with the collectively bargained union hiring hall agreement.

16.5 Consequences for Non-Compliance with Goals

(a) The PLA Program Manager in coordination with District staff and the Local Hiring Committee shall consider allegations of non-conformance with the goals. If there is a determination that a Contractor has not complied with the goals or demonstrated good faith efforts to do so, the PLA Program Manager will refer the issue to the Local Hiring Committee for review.

(b) If the Local Hiring Committee (see 16.6) finds a Contractor to be in apparent non-compliance, it will be referred to arbitration in accordance to step 3 of the grievance arbitration procedure upon direction by the Committee.

(c) At any time during the process of compliance review, the Contractor can negotiate a settlement with the Local Hiring Committee.

16.6 Local Hiring Committee

(a) The Parties agree to various provisions of the Agreement to attempt to achieve the inclusion of local area residents in the employment opportunities created by the covered work. In order to implement and monitor the progress of these provisions, the District and the Unions, in recognition of their mutual commitment to and the partnership they have established, to achieve those goals, shall form a Local Hiring Committee composed of participants mutually agreed upon by both Parties.

(b) The Local Hiring Committee will serve as the central forum and deliberative body for representatives of all interested or affected parties to exchange information and ideas concerning the operation and results of the District's local hiring program and the ongoing role of this Agreement as an integral component of the local hire program. As part of these responsibilities, the Committee will assess the obstacles to success for achieving inclusion of local workers in the construction opportunities. The Committee shall make program recommendations to overcome obstacles to effective local hiring.

(c) The Local Hiring Committee will be comprised of three (3) representatives of the community one of whom will be primarily involved in preparatory training for prospective construction applicants, three (3) representatives from the Unions, three (3) Contractor representatives, one (1) representative from the PLA Program Manager and one (1) representative from the Council.

(d) The Committee shall establish its rules of procedure.

(e) Committee meeting will be chaired by the District and the Council on a rotating basis.

16.7 Local Hiring Committee Meetings

(a) The Committee will meet monthly at the call of the Chair.
(b) The PLA Program Manager will establish agenda topics with input from the Committee and send notices of meetings with the agenda in advance of the meetings.

(c) The Committee will receive reports and consider work progress and practices, pre-apprentice recruitment, training and referral, apprentice development and utilization, contractor compliance with local hire goals and other issues of concern to the Program.

(d) The PLA Program Manager and the contractors shall report monthly on progress for these issues and provide ongoing workforce projections for each trade.

16.8 Monitoring and Reporting

The PLA Program Manager will assist the District in monitoring compliance with all local hiring policies and will report to the Local Hiring Committee. This monitoring will include attending progress meetings, site visits, monitoring of progress payments, utilization and verification of performance forms. Forms specific to this monitoring process will be developed. Monthly reports will be submitted to the District.

ARTICLE 17
MANAGEMENT RIGHTS

17.1 The Contractor retains the full and exclusive authority for the management of its operations and shall be responsible for the management and prosecution of the work consistent with the provisions of this Agreement. Except as expressly limited by other provisions of this Agreement and the attached applicable Master Agreement(s), the Contractor retains the right to direct the workforce, including the hiring, promotion, transfer within a contract, layoff, discipline or discharge for just cause of its employees; the selection of foremen; the assignment and schedule of work; the promulgation of reasonable work rules; and, the requirement of overtime work, the determination of when it will be worked and the number and identity of employees engaged in such work. No rules, customs, or practices which limit or restrict productivity, efficiency or the individual and/or joint working efforts of employees shall be permitted or observed. The Contractor may utilize any methods or techniques of construction. The lawful manning provisions of the applicable Master Agreement shall be recognized.

17.2 There shall be no limitation or restriction by a signatory Union upon a Contractor’s choice of materials or design, nor, regardless of source or location, upon the full use and utilization of equipment, machinery, packaging, pre-cast, pre-fabricated, pre-finished, or pre-assembled materials, tools, or other labor saving devices. This Agreement covers all on-site fabrication work over which the District, Contractor(s) or subcontractor(s) possess the right of control (including work done for the Project in any temporary yard or area near the Project.) This Agreement also covers all off-site fabrication work traditionally performed by any of the Unions, that is directly or indirectly part of the Project, provided such off-site fabrication work is covered by a provision of a local Master Labor Agreement or local addenda to a national agreement of the applicable Union(s). All of the work described in this paragraph is within the scope of this Agreement and is referred to as “Covered Work.”

The on-site installation, incorporation or application of all items shall be performed by the craft having jurisdiction over such work; provided, however, it is recognized that
installation of manufactured items may be performed by employees employed under this Agreement who may be directed by other personnel of the manufacturer in a supervisory role. For any work performed pursuant to this provision, the Contractor shall provide copies of the written warranty requirement to the Union and the District's PLA Program Manager prior to the commencement of work.

17.3 The use of new technology, equipment, machinery, tools and/or laborsaving devices and methods of performing work may be initiated by the Contractor from time-to-time during the Project. The Union agrees that it will not in any way restrict the implementation of such new devices or work methods. If there is any disagreement between the Contractor and the Union concerning the manner or implementation of such device or method of work, the implementation shall proceed as directed by the Contractor, and the Union shall have the right to grieve and/or arbitrate the dispute as set forth in Article 12 of this Agreement.

ARTICLE 18
SAVINGS CLAUSE

18.1 The parties agree that in the event any article, provision, clause, sentence or word of the Agreement is determined to be illegal or void as being in contravention of any applicable law, by a court of competent jurisdiction such as the Department of Industrial Relations, the Division of Apprenticeship Standards, and other applicable labor related governmental agencies the remainder of the Agreement shall remain in full force and effect. The parties further agree that if any article, provision, clause, sentence or word of the Agreement is determined to be illegal or void, by a court of competent jurisdiction or other labor related governmental authorities, the parties shall substitute, by mutual agreement, in its place and stead, an article, provision, clause, sentence or word which will meet the objections to its validity and which will be in accordance with the intent and purpose of the article, provision, clause, sentence or work in question.

18.2 The parties also agree that in the event that a decision of a court of competent jurisdiction materially alters the terms of the Agreement such that the intent of the parties is defeated, then the entire Agreement shall be null and void.

18.3 If a court of competent jurisdiction determines that all or part of the Agreement is invalid and/or enjoins the District from complying with all or part of its provisions and the District accordingly determines that the Agreement will not be required as part of an award to a Contractor(s), the Union(s) will no longer be bound by the provisions of Article 6.

ARTICLE 19
MISCELLANEOUS PROVISIONS

19.1 Counterparts: This Agreement may be executed in counterparts, such that original signatures may appear on separate pages, and when bound together all necessary signatures shall constitute an original. Facsimile signature pages transmitted to other parties to this Agreement shall be deemed equivalent to original signature.

19.2 Warranty of Authority: Each of the persons signing this Agreement represents and warrants that such person has been duly authorized to sign this Agreement on behalf of
the party indicated, and each of the parties by signing this Agreement warrants and represents that such party is legally authorized and entitled to enter into this Agreement.

19.3 **Ratification by Governing Board:** This Agreement shall not be binding on the District until it is approved by the Peralta Community College District Governing Board.

**ARTICLE 20**

**TERM**

20.1 The Agreement shall be included as a condition of the award of all Construction Contracts that are part of the PLA Program.

20.2 This Agreement shall become effective on the day the District Governing Board ratifies the Agreement and shall continue in full force and effect for a period of five (5) years, at which time this Agreement will be reviewed and considered for extension or renewal with modifications if appropriate. The term of this Agreement will be automatically extended for additional successive five (5) year terms unless the District, prior to the expiration of any such term and, after meeting with the Council and the Unions, finds in a public hearing that the work performed has been unsatisfactory, and gives the Council and Unions notice that it will not renew this Agreement. After the expiration of any term of this Agreement, the provisions of the Agreement shall continue to apply to those Projects subject to this Agreement until construction is completed. The parties may mutually agree in writing to amend, extend or terminate this Agreement at any time.

20.3 The parties agree to meet and confer annually, subsequent to approval of this Project Labor Agreement by the Peralta Community College District Governing Board, regarding the status of and experience with Projects covered by the Agreement and future projects to be covered by the Agreement.

**Peralta Community College District**

BY: [Signature]

Elihu Harris
Chancellor

DATE: 4/6/10

**Alameda County Building & Construction Trades Council AFL-CIO (Council)**

BY: [Signature]

Barry Luboviski
Secretary-Treasurer

DATE: ______________

**Asbestos Workers, Local 16**

By: [Signature]

Steve Steele

**Boilermakers, Local 549**

By: ______________

Frank Secreet
Bricklayers & Allied Craftsmen, Local 3

By: 

Tom Spear

Northern California Regional Council of Carpenters on behalf of, Carpenters, Local 713, Carpenters, Local 2236, Lathers, Local 68L, Pile Drivers, Local 34, Millwrights, Local 102

By: 

Robert Alvarado

District Council of Plasterers and Cement Masons of Northern California

By: 

Steve Scott

Cement Masons, Local 300

By: 

Steve Scott

Plasterers, Local 66

By: 

Chester Murphy, Jr.

Electrical Workers, Local 595

By: 

Victor Uno

Elevator Constructors, Local 8

By: 

Pat McGarvey

Laborers District Council on behalf of, Hod Carriers, Local 166, Laborers, Local 67, Laborers, Local 304

By: 

Jose Moreno
Hod Carriers, Local 166

By: [Signature]

Sam Robinson

Laborers, Local 67

By: [Signature]

Victor Para

Laborers, Local 304

By: [Signature]

Jose Zapien

Operating Engineers, Local 3

By: [Signature]

Russ Burns

District Council Ironworkers of the State of California and Vicinity

By: [Signature]

Joe Standley

Ironworkers, Local 378

By: [Signature]

Emilio Rivera

District Council 16, Painters & Allied Trades on behalf of Auto & Marine Painters, Local 1176, Carpet & Linoleum Layers, Local 12, Glaziers, Architectural Metal & Glassworkers, Local 169, Painters & Tapers, Local 3

By: [Signature]

Doug Christopher

Roofers and Waterproofers, Local 81

By: [Signature]

Doug Ziegler
Sheet Metal Workers, Local 104

By: [Signature]

Bruce Word

Sign Display & Allied Crafts, Local 510

By: [Signature]

Mike Hardeman

Sprinkler Fitters, Local 483

By: [Signature]

Stan Smith, Jr.

Teamsters, Local 853

By: [Signature]

Rome AloiSE

United Association of Steamfitters, Pipefitters, Plumbers & Gasfitters, Local 342

By: [Signature]

Jay Williams

United Association of Journeyman & Apprentices of the Pipe Fitting Industry, Underground Utility / Landscape, Local 355

By: [Signature]

Dennis Soares
Sheet Metal Workers, Local 104

By: __________________________

Bruce Word

Sprinkler Fitters, Local 483

By: __________________________

Stan Smith, Jr.

Sign Display & Allied Crafts, Local 510

By: __________________________

Mike Hardeman

Teamsters, Local 853

By: __________________________

Rome Aloice

United Association of Steamfitters, Pipefitters, Plumbers & Gasfitters, Local 342

By: __________________________

Jay Williams

United Association of Journeyman & Apprentices of the Pipe Fitting Industry, Underground Utility / Landscape, Local 355

By: __________________________

Dennis Soares
LETTER OF ASSENT

PROJECT LABOR AGREEMENT

The undersigned, as a Contractor on the Peralta Community College Project, ("Project"), subject to the Project Labor Agreement ("Agreement"), for and in consideration of the award to it of a contract to perform work on said Project, and in further consideration of the promises made in the Agreement and all attachments a copy of which was received and is acknowledged, hereby:

1.) Accepts and agrees to be bound by the terms and conditions of the Agreement, together with any and all amendments and supplements now existing or which are later made thereto only for the duration and scope of the Contractor's work on the Project.

2.) The Contractor agrees to be bound by the legally established trust agreements designated in local master collective bargaining agreements. The Contractor authorizes the parties to such local trust agreements to appoint trustees and successor trustee to administer the trust funds and hereby ratifies and accepts the trustees so appointed as if made by the Contractor.

3.) Certifies that it has no commitments or agreements which would preclude its full and complete compliance with the terms and conditions of said Agreement.

4.) Agrees to secure from any Contractor(s) (as defined in said Agreement) which are or become a subcontractor (of any tier) to it, a duly executed Agreement to be Bound in a form identical to this document.

DATED: ______________ Name of Contractor ______________________________________

(Authorized Officer & Title) ______________________________

Contractor's State License #________________________

Project Name ______________________________________

Contract Number ________________________________

Name of Prime Contractor or Higher Level Subcontractor ________________________________
LETTER OF UNDERSTANDING ADDRESSING LOCAL BUSINESS UTILIZATION

During negotiations, the District and the Building Trades Council discussed local business participation on District projects that will be covered by the Project Labor Agreement. The District, the Building Trades Council and the Affiliates of the Council agreed that such participation will benefit the local community and insure additional opportunities for work that is not covered by the Project Labor Agreement.

It is therefore agreed that every effort will be taken to encourage all participating Contractors to use good faith efforts to obtain supplies, materials and goods from local suppliers and manufacturers. Such ancillary off site support services include fabrication of: millwork, cabinets and modular furniture, electrical components, miscellaneous ornamental iron, prefinishing of materials and also the furnishing of building materials and office supplies used during construction.

Therefore, the District, the Building Trades Council and the Unions will make every effort to encourage use of local businesses on non-covered work needed to construct the College facilities.

Sincerely,

[Signature]

Elihu Harris, Chancellor
on behalf of the Peralta Community College District

AGREED AND ACCEPTED on behalf of the Building and Construction Trades Council of Alameda County, AFL-CIO and the Local Unions signatory to the Peralta Community College District Construction Project Labor Agreement this 21 day of July 2009.

[Signature]

Barry Luboviski, Secretary-Treasurer
Building and Construction Trades Council of Alameda County, AFL-CIO
Attachment C

We, the undersigned parties agree to the two side letters, dated July 21, 2009:

"Term of Project Labor Agreement Side Letter" and
"Helmets to Hardhats Program Side Letter"

These two side letters are addendum to the Project Labor Agreement, and shall constitute the entire Agreement. The effective date of the Agreement is July 21, 2009. Mr. Barry Luboviski, Secretary-Treasurer confirms that all parties agree to the side letters, along with the Project Labor Agreement, and all Union Signatories will confirm their agreement below.

Peralta Community College District Construction

BY: ____________________________
Elihu Harris
Chancellor

DATE: ____________________________

Asbestos Workers, Local 16

BY: ____________________________
Steve Steele

Boilermakers, Local 549

BY: ____________________________
Dale Bilyeu

Bricklayers & Allied Craftsmen, Local 3

BY: ____________________________
Tom Spear

Northern California Regional Council of Carpenters on behalf of, Carpenters, Local 713, Carpenters, Local 2236, Lathers, Local 68L, Pile Drivers, Local 34, Millwrights, Local 102

BY: ____________________________
Robert Alvarado

District Council of Plasterers and Cement Masons of Northern California

BY: ____________________________
Steve Scott

Cement Masons, Local 300

BY: ____________________________
Steve Scott
Attachment C

Plasterers, Local 66

By: __________________________
Chester Murphy, Jr.

Elevator Constructors, Local 8

By: __________________________
Pat McGarvey

Hod Carriers, Local 166

By: __________________________
Sam Robinson

Laborers, Local 304

By: __________________________
Jose Zapien

District Council Ironworkers of the State of California and Vicinity

By: __________________________
Joe Standley

Electrical Workers, Local 595

By: __________________________
Victor Uno

Laborers District Council on behalf of, Hod Carriers, Local 166, Laborers, Local 67, Laborers, Local 304

By: __________________________
Oscar De La Torre

Laborers, Local 67

By: __________________________
Victor Parra

Operating Engineers, Local 3

By: __________________________
Russ Burns

Ironworkers, Local 378

By: __________________________
Emilio Rivera
Attachment C

District Council 16, Painters & Allied Trades on behalf of Auto & Marine Painters, Local 1176, Carpet & Linoleum Layers, Local 12, Glaziers, Architectural Metal & Glassworkers, Local 169, Painters & Tapers, Local 3

By: ________________________
Doug Christopher

Sheet Metal Workers, Local 104

By: ________________________
Bruce Word

Sprinkler Fitters, Local 483

By: ________________________
Stan Smith, Jr.

United Association of Steamfitters, Pipefitters, Plumbers & Gasfitters, Local 342

By: ________________________
Jay Williams

Roofers and Waterproofers, Local 81

By: ________________________
Doug Ziegler

Sign Display & Allied Crafts, Local 510

By: ________________________
Mike Hardeman

Teamsters, Local 853

By: ________________________
Rome Aloise

United Association of Journeyman & Apprentices of the Pipe Fitting Industry, Underground Utility / Landscape, Local 355

By: ________________________
Dennis Soares
District Council 16, Painters & Allied Trades
on behalf of Auto & Marine Painters, Local
1176, Carpet & Linoleum Layers, Local 12,
Glaziers, Architectural Metal & Glassworkers,
Local 169, Painters & Tapers, Local 3

By: ________________________________
Doug Christopher

Sheet Metal Workers, Local 104

By: ________________________________
Bruce Word

Sprinkler Fitters, Local 483

By: ________________________________
Stan Smith, Jr.

United Association of Steamfitters,
Pipefitters, Plumbers & Gasfitters,
Local 342

By: ________________________________
Jay Williams

Roofers and Waterproofers, Local 81

By: ________________________________
Doug Ziegler

Sign Display & Allied Crafts, Local 510

By: ________________________________
Mike Hardeman

Teamsters, Local 853

By: ________________________________
Rome Aloise

United Association of Journeyman &
Apprentices of the Pipe Fitting Industry,
Underground Utility / Landscape, Local 355

By: ________________________________
Dennis Soares
Attachment D

Term of Project Labor Agreement Side Letter

Chancellor Elihu Harris
Peralta Community College District
333 East 8th Street
Oakland, CA 94606

Re: Peralta Community College District Construction Project Labor Agreement: Term of Agreement

Dear Chancellor Harris:

In our negotiations of the captioned Project Labor Agreement, the District and the Unions came to agreement on the Term of the Project Labor Agreement, in Article 1, Definitions and Article 20, Term. It is clearly understood by the Unions and the District that the parties agree that Section 20.2 shall be modified as follows:

20.2 This Agreement shall become effective on the day the District Governing Board ratifies the Agreement and shall continue in full force and effect for a period of five (5) years, at which time this Agreement will be reviewed and considered for extension or renewal with modifications if appropriate. The term of this Agreement will be extended for additional successive five (5) year terms unless the District, 60 to 90 days prior to the expiration of any such term, after meeting with the Council and the Unions, gives written notice to the Council that it wishes to re-open the contract and make proposals to amend, modify, add to, or delete from the Agreement. After the expiration of any term of this Agreement, the provisions of the Agreement shall continue to apply to those Projects subject to this Agreement until construction is completed. The parties may mutually agree in writing to amend, extend or terminate this Agreement at any time.

Sincerely,

Barry Luboviski, Secretary-Treasurer,
Alameda County Building and Construction Trades Council
on behalf of the signatory Unions and Councils to the Project Labor Agreement

Chancellor Elihu Harris
Peralta Community College District

Acknowledged and agreed to this 21 day of July 2009
Attachment E

Helmets to Hardhats Program Side Letter

Chancellor Elihu Harris
Peralta Community College District
333 East 8th Street
Oakland, CA 94606

Re: Peralta Community College District Construction Project Labor Agreement: Helmets to Hard Hats

Dear Chancellor Harris:

In our negotiations of the captioned Project Labor Agreement, the District and the Unions discussed career pathways. To insure that all avenues are available to effectively reach out to potential applicants and to insure entry into the building and construction trades of men and women veterans who have served their Country and are interested in careers in the building and construction industry, we subscribe to the following:

When appropriate, the Employers and Unions will agree to utilize the services of the Center for Military Recruitment, Assessment and Veterans Employment (hereinafter “Center”) and the Center’s “Helmets to Hardhats” program to serve as a resource for preliminary orientation, assessment of construction aptitude, referral to apprenticeship programs or hiring halls, counseling and mentoring, support network, employment opportunities and other needs as identified by the parties.

We further agree that the Unions and Employers will, as a consequence of signing the Letter of Assent, coordinate with the Center to create and maintain an integrated database of veterans interested in working on Projects covered by this Agreement and which of them are interested in apprenticeship and employment opportunities made available by such Projects. To the extent permitted by law, the Unions will give credit to such veterans for bona fide, provable past experience.

Sincerely,

Barry Luboviski, Secretary-Treasurer,
Alameda County Building and Construction Trades Council
on behalf of the signatory Unions and Councils to the Project Labor Agreement

Chancellor Elihu Harris
Peralta Community College District

Acknowledged and agreed to this 21 day of July 2009.
MERRITT COLLEGE SCIENCE BUILDING SITE PAVING

DOCUMENT 00 9113

ADDENDA

PROJECT NO. 2353, BID NO. 14-15/20

Peralta Community College District

Merritt College Science Building Site Paving

12500 Campus Drive, Oakland, CA 94619

[DOCUMENT TO BE COMPLETED AS ADDENDA DURING BID PERIOD]

END OF DOCUMENT
MERRITT COLLEGE SCIENCE BUILDING SITE PAVING
SECTION 01 1100

SUMMARY OF WORK

PART 1 – GENERAL

1.01 SUMMARY

A. Section includes Summary of Work and Work Restrictions including:

1. Work Covered By Contract Documents
2. Bid Item, Allowances and Alternates
3. Work Under Other Contracts
4. Future Work
5. Work Sequence
6. Work Days and Hours
7. Shutdown for Discovery of Cultural Resources
8. Cooperation of Contractor and Coordination with Other Work
9. Partial Occupancy/Utilization Requirements
10. Contractor Use of Site
11. Air Quality Standards
12. Construction Staking and Monument Protection
13. Protection of Existing Structures and Underground Facilities
14. Permits
15. Owner-Furnished Products

1.02 WORK COVERED BY CONTRACT DOCUMENTS

A. Work comprises of the construction of Merritt College Science Building Site Paving located at, 12500 Campus Drive, Oakland CA 94619. The Work includes, without limitation, site paving and improvements as shown on the drawings and specifications in accordance with the Construction Documents prepared by JK Architecture.

B. The Work of this Contract comprises construction of all the Work indicated, described in the Specifications, or otherwise required by the Contract Documents. Unless provided otherwise in the Contract Documents, all risk of loss to Work covered by Contract Documents shall rest with Contractor until Final Acceptance of the Work. Cost of maintenance of systems and equipment prior to Final Acceptance will be considered as included in prices Bid and no direct or additional payment will be made therefore.

C. For all Bid items, furnish and install all Work, including connections to existing systems, indicated and described in Specifications and all other Contract Documents. Work and requirements applicable to each individual Bid item, or unit of Work, shall be deemed incorporated into the description of each Bid item (whether Lump Sum or Unit Price). Any Bid item may be deleted from the Work and Contract Sum, in total or in part, prior to or after award of Contract without compensation in any form or adjustment of other Bid items or prices therefore.
D. Allowance Work shall be done as Change Orders and as specified in Section 01 2600 (Modification Procedures). Identify Allowance Items (See Document 00 4000 [Bid Form]) work on the Progress Schedules and on Applications for Payment. The Amount given on Document 00 4000 (Bid Form) under each Allowance Item is the sum of money set aside for each Allowance Item. These amounts shall be included in the Contract Sum on the Bid Form. If the cost of Work done under any Allowance Item is less than the amount given on the Bid Form under that Allowance Item, the Contract Sum shall be reduced by the difference between the amount given in the Bid Form and the cost of Work actually done.

1.03 WORK DAYS AND HOURS
A. Work Days and hours: Monday-Friday inclusive, typically 7:00 a.m.-5:00 p.m. See paragraph B.
B. Work at the Site on weekends, holidays, or other than normal business hours is permitted with approval by Owner.

1.04 CONTRACTOR USE OF SITE
A. Confine operations at Site to areas permitted by Contract Documents, permits, ordinances, and laws. Do not unreasonably encumber Site with materials or equipment.
B. Assume full responsibility for protection and safekeeping of products stored on premises. Move any stored products that interfere with operations of Owner or other contractor.
C. Coordinate parking, storage, staging, and Work areas with Owner. Owner will provide a storage area for Contractor’s equipment and materials. Do not store construction materials in the dripline of any tree.
D. Prior to commencement of Work or excavation, Contractor and Owner shall jointly survey the area adjacent to the Project area making permanent note and record of such existing damage such as cracks, sags or other similar damage. This record shall serve as a basis for determination of subsequent damage to structures, conditions or other existing improvements due to Contractor’s operations. All parties making the survey shall sign the official record of existing damage. Cracks, sags or damage of any nature to the adjacent Project area, not noted in the original survey but subsequently noted, shall be reported immediately to Owner.
E. The Contractor shall follow all city ordinances in force during the duration of this Contract.
F. It is essential that the Contractor perform the Work with as little interference and disturbance as possible to the surrounding neighborhood.
G. When suspect materials, outside the scope of Work, are encountered during the Work or restoration process, the Contractor shall immediately contact the Project Manager for evaluation and approval of the methods for dealing with the material.

1.05 EXISTING SITE CONDITIONS
A. Existing site had been rough graded by others grades shown on Grading Plan sheet C4.1 to a tolerance of +/-0.2 feet. Rough grading has been performed accounting for pavement sections indicated on C4.1 for areas that are in contractors limits of construction. Areas within limits of work, contractor is to perform all work necessary to complete the project per specifications and drawings. The rough grading did not account for any footings, thickened edges, etc. shown in details required to construct all sidewalks, ramps, stairs, etc.
B. Contractor to remove all excess soil from construction areas to location north west of parking lot B on site in final location directed by owner. Contractor shall leave disposal area compacted to 90% and in conditions as necessary to comply with appropriate SWPPP measures. It is unacceptable to spread excess soils around building site in future landscaped areas as this has been rough graded to account for future landscape package.

PART 2 – PRODUCTS- NOT USED

END OF SECTION
PART 1 – GENERAL

1.01 SUMMARY
A. Section includes description of requirements and procedures for determining amount of Work performed and for obtaining payment for Work performed.

1.02 REFERENCES
A. California Public Contract Code
B. Code of Civil Procedures
C. Government Code

1.03 COMPOSITION AND SCOPE OF CONTRACT SUM
A. Scope of Contract Sum
1. The Contract Sum for performance of the Work under Contract Documents, or under any Bid item, allowance, or Alternate, shall include full compensation for all Work required under the Contract Documents, including without limitation, all labor, materials, taxes, transport, handling, storage, supervision, administration, and all other items necessary for the satisfactory completion of the Work, whether or not expressly specified or indicated, incidental work and unexpected expenses, and all terms, conditions, requirements and limitations set forth in the Contract Documents.
2. Contract Sum may be expressed as lump sum, unit price, GMP, allowance, or combination thereof.

B. Unit Price items
1. Quantity of Work to be paid for under any item for which a unit price is fixed in Contract Documents shall be determined by Owner based on, so far as practicable, actual number of units satisfactorily completed, as determined by Owner and certified by Contractor, within prescribed or ordered limits, and no payment will be made for Work unsatisfactorily performed or done outside of limits.
2. Unit Prices shall apply to Work covered by unit prices so long as actual quantities performed on the Project are not less than 75 percent or greater than 125 percent of the estimated quantities bid or otherwise stated in the Contract Documents. If actual quantities exceed these parameters, then the unit price shall be adjusted by an amount to reflect the Contractor’s incremental cost differential resulting from increased or decreased economies of scale.

C. Lump Sum Items
1. When estimated quantity for specific portion of Work is not indicated and/or Work is designated as lump sum, payment will be on a lump sum basis for Work satisfactorily completed in accordance with Contract Documents.
2. Payment for lump sum Work, or items of Work subject to a lump sum (e.g. without limitation, change order work), shall be made on the basis of satisfactory completion of such Work or work item, earned in progressive stages in accordance with the Contract Documents, up to but not exceeding the Contractor’s percentage completion of the Work or item.
3. Lump sum items shall be paid based upon the approved Schedule of Values, which shall be used to measure progressive payments based upon satisfactory progress towards
D. **Allowance Items**

1. **Allowances**: Allowance Work will be authorized by Owner in writing, following change order procedures to determine cost, supporting documentation and authorization to proceed. Unused allowance amounts at Contract completion shall reduce the Contract price accordingly.

**1.04 PAYMENT PROCEDURES**

**A. Schedule of Values:**

1. Within ten Days from issuance of Notice of Award and prior to the Contractor’s first Application for Payment, Contractor shall submit a detailed breakdown of its Bid by scheduled Work items and/or activities, including coordination responsibilities and Project Record Documents responsibilities. Where more than one Subcontractor comprises the work of a Work item or activity, the Schedule of Values shall show a separate line item for each subcontract. Contractor shall furnish such breakdown of the total Contract Sum by assigning dollar values (cost estimates) to each applicable Progress Schedule network activity, which cumulative sum equals the total Contract Sum. This breakdown shall be referred to as the Schedule of Values.

2. Contractor’s overhead, profit, insurance, cost of bonds (except to the extent expressly identified in a Bid item) and/or other financing, as well as “general conditions costs,” (e.g., Site cleanup and maintenance, temporary roads and access, off-Site access roads, temporary power and lighting, security, and the like), shall be prorated through all activities so that the sum of all the Schedule of Values line items equals Contractor’s total Contract Sum, less any allowances designated by Owner. Scheduling, record documents and quality assurance control shall be separate line items.

3. Owner will review the breakdown in conjunction with the Progress Schedule to ensure that the dollar amounts of this Schedule of Values are, in fact, reasonable cost allocations for the Work items listed. Upon favorable review by Owner, Owner will accept this Schedule of Values for use. Owner shall be the sole judge of fair market cost allocations.

4. Owner will reject any attempt to increase the cost of early activities, i.e., “front loading,” resulting in a complete reallocation of moneys until such “front loading” is corrected. Repeated attempts at “front loading” may result in suspension or termination of the Work for default, or refusal to process progress payments until such time as the Schedule of Values is acceptable to Owner.

**B. Contractor’s Requests for Progress Payments**

1. If requested by Contractor, progress payments will be made monthly, under the following conditions:

2. On or before the 25th Day of each month, Contractor shall submit to Owner five copies of an Application for Payment for the cost of the Work put in place during the period from the last Day of the previous month to the end of the current month, along with one copy of an updated Progress Schedule. Such Applications for Payment shall be for the expected total value of activities completed or partially completed, based upon Schedule of Values prices (or Bid item prices if unit price) of all labor and materials incorporated in the Work up until midnight of the last Day of that one month period, less the aggregate of previous payments. Accumulated retainage shall be shown as separate item in payment summary. Owner and Contractor will reconcile any differences in the field, based on the reconciled monthly report sheets. If Contractor is late submitting its Application for Payment, that Application may be processed at any time during the succeeding one-month period, resulting in processing of Contractor’s Application for Payment being delayed for more than a Day for Day basis.

3. Except as otherwise provided in a labor compliance program applicable to the Work (if any) or as otherwise required by Owner, concurrently with each Application for Payment, Contractor shall submit to the Owner the Contractor’s and its Subcontractors’ certified
payroll records required to be maintained pursuant to Labor Code Section 1776 for all labor performed during pay periods ending during the period covered by the Application for Payment.

4. No progress payment will be processed prior to Owner receiving all requested, acceptable schedule update information and certified payrolls, and in Owner's sole and absolute discretion, Owner may deny the entire Application for Payment for noncompliance.

5. Each Application for Payment shall list each Change Order and Construction Change Directive ("CCD") executed prior to date of submission, including the Change Order/CCD Number, and a description of the Work activities, consistent with the descriptions of original Work activities. Contractor shall submit a monthly Change Order/CCD status log to Owner.

6. If Owner requires substantiating data, Contractor shall submit information requested by Owner, with cover letter identifying Project, Application for Payment number and date, and detailed list of enclosures. Contractor shall submit one copy of substantiating data and cover letter for each copy of Application for Payment submitted.

7. If Contractor fails or refuses to participate in monthly Work reconciliations or other construction progress evaluation with Owner, Contractor shall not receive current payment until Contractor has participated fully in providing construction progress information and schedule update information to Owner.

C. Owner's Review of Progress Payment Applications

1. Owner will review Contractor's Application for Payment following receipt and during the Progress Schedule and Billing Meeting. If adjustments need to be made to percent of completion of each activity, Owner will make appropriate notations and return to Contractor. Contractor shall revise and resubmit. All parties shall update percentage of completion values in the same manner, i.e., express value of an accumulated percentage of completion to date.

2. If Owner determines that portions of the Application for Payment are not proper or not due under the Contract Documents, then Owner may approve the other portions of the Application for Payment, and in the case of disputed items or Defective Work not remedied, may withhold up to 150 percent of the disputed amount from the progress payment.

3. Pursuant to California Public Contract Code §20104.50, if Owner fails to make any progress payment within 30 Days after receipt of an undisputed and properly submitted Application for Payment from Contractor, Owner shall pay interest to the Contractor equivalent to the legal rates set forth in subdivision (a) of Section 685.010 of the California Code of Civil Procedure. The 30-Day period shall be reduced by the number of Days by which Owner exceeds the seven-Day return requirement set forth herein.

4. As soon as practicable after approval of each Application for Payment for progress payments, Owner will pay to Contractor in manner provided by law, an amount equal to 90 percent of the amounts otherwise due as provided in the Contract Documents, or a lesser amount if so provided in Contract Documents, provided that payments may at any time be withheld if, in judgment of Owner, Work is not proceeding in accordance with Contract, or Contractor is not complying with requirements of Contract, or to comply with stop notices or to offset liquidated damages accruing or expected. In Owner's sole discretion, if Contractor has failed to comply with either its Progress Schedule update or project record documents requirements, Owner may retain an additional 5% of any earned amounts until such requirements are satisfied.

5. Before any progress payment or final payment is due or made, Contractor shall submit satisfactory evidence that Contractor is not delinquent in payments to employees, Subcontractors, suppliers, or creditors for labor and materials incorporated into Work. This specifically includes, without limitation, conditional lien release forms for the current progress payment and unconditional release forms for past progress payments. This also includes copies of certified payroll from contractor and subcontractors for the current payment period.
D. Payment for Material and Equipment Not Yet Incorporated Into the Work

1. No payment shall be made for materials or equipment not yet incorporated into the Work, except as specified elsewhere in the Contract Documents or as may be agreed to by Owner in its sole discretion. Where Contractor requests payment on the basis of materials and equipment not incorporated in the Work, Contractor must satisfy the following conditions:

2. The materials and/or equipment shall be delivered and suitably stored at the Site or at another local location agreed to in writing, for example, a mutually acceptable bonded and insured warehouse.

3. Full title to the materials and/or equipment shall vest in Owner at the time of delivery to the Site, warehouse or other storage location. Obtain a negotiable warehouse receipt, endorsed over to Owner for materials and/or equipment stored in an off-site warehouse. No payment will be made until such endorsed receipts are delivered to Owner.

4. Stockpiled materials and/or equipment shall be available for Owner inspection, but Owner shall have no obligation to inspect them and its inspection or failure to inspect shall not relieve Contractor of any obligations under the Contract Documents. Materials and/or equipment shall be segregated and labeled or tagged to identify these specific Contract Documents.

5. After delivery of materials and/or equipment, if any inherent or acquired defects are discovered, defective materials and/or equipment shall be removed and replaced with suitable materials and/or equipment at Contractor’s expense.

6. At Contractor’s expense, insure the materials and/or equipment against theft, fire, flood, vandalism, and malicious mischief, as well as any other coverages required under the Contract Documents.

7. Contractor’s Application for Payment shall be accompanied by a bill of sale, invoice or other documentation warranting that Owner has received the materials and equipment free and clear of all liens and evidence that the materials and equipment are covered by appropriate property insurance and other arrangements to protect Owner interest therein, all of which must be satisfactory to Owner. This documentation shall include, but not be limited to, conditional releases of mechanics’ liens and stop notices from all those providing materials and equipment as to which the Application for Payment relates, as well as unconditional releases of the same from the same as to the previous Application for Payment for which they have not already been provided. Amounts previously paid for materials and equipment prior to incorporation into the Work shall be deducted from amounts otherwise due Contractor as they are incorporated.

1.05 FINAL PAYMENT

A. Final Payment

1. As soon as practicable after all required Work is completed in accordance with Contract Documents, including punchlist, testing, record documents and Contractor maintenance after Final Acceptance, Contractor shall submit its Application for Final Payment.

2. Provided Contractor has met all conditions required for Final payment, Owner will pay to Contractor, in manner provided by law, unpaid balance of Contract Sum of Work (including, without limitation, retentions), or whole Contract Sum of Work if no progress payment has been made, determined in accordance with terms of Contract Documents, less sums as may be lawfully retained under any provisions of Contract Documents or by law.

B. Final Accounting

1. Prior progress payments and change orders shall be subject to audit and correction in the final payment.

2. Contractor and each assignee under an assignment in effect at time of final payment shall execute and deliver at time of final payment, and as a condition precedent to final payment, Document 00 6530 (Agreement and Release of Claims).
1.06 SUBSTITUTION OF SECURITIES

A. Public Contract Code Section 22300. In accordance with the provisions of Public Contract Code Section 22300, substitution of securities for any moneys withheld under Contract Documents to ensure performance is permitted under following conditions:

1. At request and expense of Contractor, securities listed in Section 16430 of the Government Code, bank or savings and loan certificates of deposit, interest bearing demand deposit accounts, standby letters of credit, or any other security mutually agreed to by Contractor and Owner which are equivalent to the amount withheld under retention provisions of Contract shall be deposited with Controller or with a state or federally chartered bank in California, as the escrow agent, who shall then pay such moneys to Contractor. Upon satisfactory completion of Contract, securities shall be returned to Contractor.

2. Alternatively, Contractor may request and Owner shall make payment of retentions earned directly to the escrow agent at the expense of Contractor. At the expense of Contractor, Contractor may direct the investment of the payments into securities and receive the interest earned on the investments upon the same terms provided for securities deposited by Contractor. Upon satisfactory completion of the work of the Contract Documents, Contractor shall receive from escrow agent all securities, interest, and payments received by the escrow agent from Owner. Contractor shall then pay to each Subcontractor, not later than 20 Days after receipt of the payment, the respective amount of interest earned, net of costs attributed to retention withheld from each Subcontractor, on the amount of retention withheld to insure the performance of Contractor.

3. Contractor shall be beneficial owner of securities substituted for moneys withheld and shall receive any interest thereon.

4. Contractor may enter into an escrow agreement, form included in Contract Documents, as authorized under Public Contract Code Section 22300, specifying amount of securities to be deposited, terms and conditions of conversion to cash in case of default of Contractor, and termination of escrow upon completion of Contract Documents.

5. Public Contract Code Section 22300, in effect on Bid Day, is hereby incorporated in full by this reference and shall supersede anything inconsistent therewith.

PART 2 – PRODUCTS – NOT USED

PART 3 – EXECUTION – NOT USED

END OF SECTION
PART 1 – GENERAL

1.01 SUMMARY
A. Section includes requirements that supplement the paragraphs of Document 00 7200 (General Conditions).
B. Description of procedures for modifying the Contract Documents and determining costs for changes in contract amounts.

1.02 PROCEDURES FOR CONTRACTOR INITIATED CHANGE ORDER
A. Contractor-Initiated Change Proposal Request (CPR) and Procedures:
   1. Contractor may initiate changes by submitting a Change Proposal Request (“CPR”).
   2. Whenever Contractor elects or is entitled to submit a CPR, Contractor shall prepare and submit to Owner for consideration a CPR using the form included in this Project Manual. All CPRs must contain a complete breakdown of costs of credits, deducts and extras; itemizing materials, labor, taxes, Markup and any requested changes to Contract Time. All Subcontractor Work shall be so indicated. Individual entries on the CPR form shall include applicable Schedule of Values code, with all amounts determined as provided herein. After receipt of a CPR with a detailed breakdown, Owner will act promptly thereon.
   3. If Owner accepts a CPR, Owner will prepare a Change Order for Owner and Contractor signatures.
   4. If CPR is not acceptable to Owner because it does not agree with Contractor’s proposed cost and/or time, Owner will provide comments thereto. Contractor will then, within seven (7) Days (except as otherwise provided herein), submit a revised CPR.
   5. When necessity to proceed with a change does not allow Owner sufficient time to conduct a proper check of a CPR (or revised CPR), Owner may issue a Change Directive (CD) as provided below.
B. Contractor-Initiated Request for Information (RFI) Procedures, Requirements and Limitations:
   1. Contractor may submit RFIs for clarifications in Owner-prepared Contract Documents, which may result in the Contractor submitting a CPR.
   2. Whenever Contractor requires information regarding the Project or Owner-prepared Contract Documents, or receives a request for such information from a Subcontractor, Contractor may prepare and deliver an RFI to Owner. Contractor shall use RFI format provided on approval by Owner. Contractor shall not issue an RFI to Owner solely to clarify Contractor-prepared Construction Documents. Contractor must submit time critical RFIs at least 30 days before scheduled start date of the affected Work activity. Contractor shall reference each RFI to an activity of Progress Schedule and shall note time criticality of the RFI, indicating time within which a response is required. Contractor’s failure to reference RFI to an activity on the Progress Schedule and note time criticality on the RFI shall constitute Contractor’s waiver of any claim for time delay or interruption to the Work resulting from any delay in responding to the RFI.
   3. Contractor shall be responsible for its costs to implement and administer RFIs throughout the Contract duration. Regardless of the number of RFIs submitted, Contractor shall not be entitled to additional compensation for the effort required to submit the RFIs. Contractor shall be responsible for Owner’s administrative costs for answering RFIs where the answer could reasonably be found by reviewing the Contract Documents, as determined by
Owner; at Owner discretion, such costs may be deducted from progress payments or final payment.

4. Owner will respond within ten (10) days from receipt of RFI with a written response to Contractor. Contractor shall distribute response to all appropriate Subcontractors.

5. If Contractor is satisfied with the response and does not request a change in Contract Sum or Contract Time, then the response shall be executed without a change.

6. If Contractor believes the response is incomplete, Contractor shall issue another RFI (with the same RFI number with the letter "A" indicating it is a follow-up RFI) to Owner clarifying original RFI. Additionally, Owner may return RFI requesting additional information should original RFI be inadequate in describing condition.

C. Time Requirements:

1. If Contractor believes that an Owner response to an RFI, submittal or other Owner direction, results in change in Contract Sum or Contract Time, Contractor shall notify Owner with the issuance of a preliminary CPR within ten Days after receiving Owner’s response or direction, and in no event after starting the disputed work or later than the time allowed under Article 12 of Document 00 7200 (General Conditions). If Contractor also requests a time extension, or has issued a notice of delay or otherwise requests a time extension with a CPR, then Contractor shall submit the TIE required herein concurrently with the CPR and in no event later than ten Days after providing the notice of delay.

2. If Contractor requires more time to accurately identify the required changes to the Contract Sum or Contract Time, Contractor may submit an updated and final CPR and TIE within 14 days of submitting the preliminary CPR.

3. If Owner agrees with Contractor’s CPR and/or TIE, then Owner will prepare a Change Order for Owner and Contractor signatures. If Owner disagrees with Contractor, then Contractor may give notice of potential claim as provided in Article 12 of Document 00 7200 (General Conditions), and proceed thereunder.

4. Contractor must submit CPRs, notices of potential claim or Claims within the required time periods. Any failure to do so waives Contractor’s right to submit a CPR or file a Claim.

D. Cost Estimate Information:

1. Contractor and subcontractors shall, upon Owner’s request, permit inspection of the original unaltered cost estimates, subcontract agreements, purchase orders relating to the change, and documents substantiating all costs associated with its CPR or Claims arising from changes in the Work.

1.03 PROCEDURES FOR OWNER INITIATED CHANGE ORDERS

A. Owner Initiated Change Directives (CD):

1. Owner may, by Change Directive ("CD") or initially by Instruction Bulletin or by following the procedures for disputed work herein, order changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions, with or without adjustment to Contract Sum or Contract Time.

2. If at any time Owner believes in good faith that a timely Change Order will not be agreed upon using the foregoing procedures, or at any other time, Owner may issue a CD with its recommended cost and/or time adjustment (if any). Upon receipt of CD, Contractor shall promptly proceed with the change of Work involved and respond to Owner within ten (10) Days.

3. Contractor’s response must be any one of following:

   a. Return CD signed, thereby accepting Owner response, including adjustment to time and cost (if any).

   b. Submit a (revised if applicable) Cost Proposal with supporting documentation (if applicable, reference original Cost Proposal number followed by letter A, B, etc. for each revision), if Owner so requests.

   c. Give notice of intent to submit a claim as described in Article 12 of Document 00 7200 (General Conditions), and submit its claim as provided therein.
4. If CPR or the CD provides for an adjustment to any Contract Sum, the adjustment shall be based on one of the following methods:
   a. Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation.
   b. Contractor to proceed on cost reimbursable (force account) basis while negotiating towards a firm price.
   c. Cost to be determined in a manner agreed.

5. Change Directive signed by Contractor indicates the agreement of Contractor therewith, including adjustment in Contract Sum or the method for determining them. Such agreement shall be effective immediately and shall be finalized as a Change Order. Where Owner authorizes CD work on a time and materials basis up to a maximum amount, then Contractor shall promptly advise Owner upon reaching 75% of such maximum amount, otherwise Contractor shall accept fully the risk of completing the CD work without exceeding such maximum amount.

6. If Contractor does not respond promptly or disagrees with the method for adjustment (or non-adjustment) in the Contract Sum, the method and the adjustment shall be determined by Owner on the basis of the Contract Documents and the reasonable expenditures and savings of those performing the Work attributable to the change. If the parties still do not agree on the proper adjustment due to a Change Directive, Contractor may file a Claim per Article 12 of Document 00 7200 (General Conditions) and/or Owner may direct the changed work through a unilateral change order. Contractor shall keep and present an itemized accounting in a manner consistent with the SOV, together with appropriate supporting data. Unless otherwise provided in the Contract Documents, costs for the purposes of this paragraph shall be limited to those provided herein.

7. Pending final determination of cost to Owner, Contractor may include amounts not in dispute in its Applications for Payment. The amount of credit to be allowed by Contractor to Owner for a deletion or change which results in a net decrease in the Contract Sum shall be actual net cost as confirmed by Owner. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for Markup shall be figured on the basis of net increase, if any, with respect to that change.

B. Owner Initiated Change Order (CO) or Request for Proposal (RFP):
   1. Owner may initiate changes in the Work or Contract Time by issuing a Request for Proposal ("RFP") or Change Order ("CO") to Contractor.
   2. Owner may issue an RFP to Contractor. Any RFP will detail all proposed changes in the Work and request a quotation of changes in Contract Sum and Contract Time from Contractor.
   3. In response to an RFP, Contractor shall furnish a Change Proposal Request (CPR) within twenty-one (21) Business Days of Owner's RFP. Upon approval of CPR, Owner may issue a Change Directive directing Contractor to proceed with extra Work.
   4. If the parties agree on price and time for the work, the Owner will issue a Change Order. If the parties do not agree on the price or time for a CPR, Owner may either issue a CO or decide the issue per Article 12 of Document 00 7200 (General Conditions). Contractor shall perform the changed Work notwithstanding any claims or disagreements of any nature.

1.04 PROCEDURES THAT APPLY TO CONTRACTOR- AND OWNER-INITIATED CHANGE ORDERS

A. Adjustment of Schedules to Reflect Change Orders or CDs:
   1. Contractor shall revise Schedule of Values and Application for Payment forms to record each authorized Change Order or CD as a separate line item and adjust the Contract Sum as shown thereon prior to the next monthly pay period.
   2. Contractor shall revise the Progress Schedules prior to the next monthly pay period, to reflect CO or CD.
3. Contractor shall enter changes in Project Record Documents prior to the next monthly pay period.

B. Required Documentation for Adjustments to Contract Amounts:

1. For all changes and cost adjustments requested, Contractor shall provide documentation of change in Contract Amounts asserted, with sufficient data to allow evaluation of the proposal.

2. In all requests for compensation, cost proposals, estimates, claims and any other calculation of costs made under the Contract Documents, Contractor shall breakout and quantify costs of labor, equipment and materials identified herein, for Contractor and subcontractors of any tier.

3. Contractor shall, on request, provide additional data to support computations for:
   a. Quantities of products, materials, labor and equipment.
   b. Taxes, insurance, and bonds.
   c. Justification for any change in Contract Time and new Progress Schedule showing revision due, if any.
   d. Credit for deletions from Contract, similarly documented.

4. Contractor shall support each claim or computation for additional cost, with additional information including:
   a. Origin and date of claim or request for additional compensation.
   b. Dates and times Work was performed and by whom.
   c. Time records and wage rates paid.
   d. Invoices and receipts for products, materials, equipment and subcontracts, similarly documented.
   e. Credit for deletions from Contract, similarly documented.

C. Responses and Disputes:

1. For all responses for which the Contract Documents do not provide a specific time period, recipients shall respond within a reasonable time.

2. For all disputes arising from the procedures herein, Contractor shall follow Article 12 of Document 00 7200 (General Conditions).

1.05 COST DETERMINATION FOR CHANGES IN CONTRACT AMOUNTS

A. Calculation of Total Cost of Extra Work:

1. Total cost of changed Work, extra Work or of Work omitted shall be the sum of three components defined immediately below as: Component 1 (Direct Cost(s)); Component 2 (Markup); and, Component 3 (bonds, insurance, taxes)

2. Component 1: Direct Cost(s) of labor, equipment and materials, is calculated based upon actually incurred (or omitted) labor costs, material costs and equipment rental costs, as defined herein;

3. Component 2: Markup on such actually incurred Direct Costs, is applied in the percentages identified below; and

4. Component 3: Actual additional costs for any additionally required insurance, bonds, and/or taxes, defined herein, is calculated without Markup.

1.06 MEASUREMENT OF DIRECT COST OF CONSTRUCTION (COST COMPONENT NO. 1)

A. Composition of Component 1 (Direct Cost of Construction):

1. Component 1 has four subcomponents, also referred to as "LEMS":
   a. Labor (Component 1A)
   b. Equipment (Component 1B)
   c. Materials (Component 1C)
   d. Subcontractors (Component 1D)
B. Measurement of Cost of Labor (Component 1A):

1. Cost of Labor shall be calculated as: Cost of labor for workers (including forepersons when authorized by Owner) used in actual and direct performance of the subject work, whether employer is Contractor, Subcontractor or other forces, in the sum of the following:
   a. Actual Wages: Actual wages paid shall include any employer payments to or on behalf of workers for health and welfare, pension, vacation, and similar purposes.
   b. Labor surcharge: Payments imposed by local, county, state, and federal laws and ordinances, and other payments made to, or on behalf of, workers, other than actual wages as defined, such as worker’s compensation insurance. Such labor surcharge shall not exceed generally accepted standards in the State for labor rates in effect on date upon which extra Work is accomplished.
   c. Cost of labor shall include no other costs, fees or charges.

2. Labor cost for operators of equipment owned and operated by Contractor or any Subcontractor, shall be no more than rates of such labor established by collective bargaining agreements for type of worker and location of Work, whether or not owner-operator (i.e., Contractor or Subcontractor) is actually covered by such an agreement.

3. Cost of labor shall be recorded and documented in certified payroll records, maintained in the form customary and/or required in the State, delivered to Owner weekly.

C. Measurement of Cost of Equipment (Component 1B):

1. Measurement of Component 1B (Cost of Equipment). Cost of Equipment shall be calculated as: Cost of Equipment used in actual and direct performance of the subject work, whether by Contractor, Subcontractor or other forces. Cost of Equipment shall be calculated as herein described.

2. For rented equipment, cost will be based on actual rental invoices, appropriate for the use and duration of the work. Equipment used on extra Work shall be of proper size and type. If, however, equipment of unwarranted size or type and cost is used, cost of use of equipment shall be calculated at rental rate for equipment of proper size and type, as determined by Owner.

3. Equipment rental cost for Contractor or Subcontractor-owned equipment, shall be determined by reference to, and not in excess of, the generally accepted standards in the State for equipment rental rates in effect on date upon which extra Work is accomplished. If there is no applicable rate for an item of equipment, then payment shall be made for Contractor- or Subcontractor-owned equipment at rental rate listed in the most recent edition of the CalTrans Standard Schedules and Specifications, and absent a rental rate therein, then the Association of Equipment Distributors (AED) book.

4. In all cases, rental rates paid shall be deemed to cover cost of fuel, oil, lubrication, supplies, small tools, necessary attachments, repairs and maintenance of any kind, depreciation, storage, insurance, and all incidentals.

5. Unless otherwise specified, manufacturer’s ratings, and manufacturer-approved modifications, shall be used to classify equipment for determination of applicable rental rates. Individual pieces of equipment or tools not listed in said publication and having a replacement value of $100 or less, whether or not consumed by use, shall be considered to be small tools and no payment will be made therefore as payment is included in payment for labor. Rental time will not be allowed while equipment is inoperative due to breakdowns.

6. For equipment on Site, rental time to be paid for equipment shall be time equipment is in operation on extra Work being performed or on standby as approved by Owner. The following shall be used in computing rental time of equipment:
   a. When hourly rates are listed, less than 30 minutes of operation shall be considered to be ½ hour of operation.
   b. When daily rates are listed, less than four hours of operation shall be considered to be ½ Day of operation.
c. Rates shall correspond to actual rates paid by Contractor, i.e., if Contractor pays lower weekly or monthly rates, then same shall be charged to Owner.

7. For equipment that must be brought to Site to be used exclusively on extra Work, cost of transporting equipment to Site and its return to its original location shall be determined as follows:
   a. Owner will pay for costs of loading and unloading equipment.
   b. Cost of transporting equipment in low bed trailers shall not exceed hourly rates charged by established haulers.
   c. Cost of transporting equipment shall not exceed applicable minimum established rates of California Public Utilities Commission or appropriate State Dept. of Transportation.
   d. Owner will not make any payment for transporting and loading and unloading equipment if equipment is used on Work in any other way than upon extra Work.
   e. Rental period may begin at time equipment is unloaded at Site of extra Work and terminate at end of the performance of the extra Work or Day on which Owner directs Contractor to discontinue use of equipment, whichever first occurs. Excluding Saturdays, Sundays, and Owner legal holidays, unless equipment is used to perform extra Work on such Days, rental time to be paid per Day shall be four hours for zero hours of operation, six hours for four hours of operation and eight hours for eight hours of operation, time being prorated between these parameters. Hours to be paid for equipment that is operated less than eight hours due to breakdowns, shall not exceed eight less number of hours equipment is inoperative due to breakdowns.

8. Employee vehicles are not part of Component 1A, rather, are included within Component 2 (Markup).

9. Equipment costs shall include no other costs, fees or charges.

D. Measurement of Cost of Material (Component 1C):

1. Cost of Material shall be calculated as herein described. Cost of such materials will be cost to purchaser (Contractor, Subcontractor or other forces) from supplier thereof, except as the following are applicable:
   a. If cash or trade discount by actual supplier is offered or available to purchaser, it shall be credited to Owner notwithstanding fact that such discount may not have been taken.
   b. For materials salvaged upon completion of Work, salvage value of materials shall be deducted from cost, less discounts, of materials.
   c. If cost of a material is, in opinion of Owner, excessive, then cost of material shall be deemed to be lowest current wholesale price at which material is available in quantities concerned delivered to Site, less any discounts as provided in this Paragraph.
   d. Material costs shall include no other costs, fees or charges.

E. Measurement of Cost of Subcontractors (Component 1D):

1. Where reimbursed or calculated per the terms of the Contract Documents, change order or Change Directive, cost of Subcontractors shall be calculated as amounts earned by Subcontractors procured in compliance with the Contract Documents and approved by the Owner, provided such subcontractor earned amounts meet the following requirements:
   a. Such amounts are earned under the terms of the Subcontracts and the Work complies with the terms of the Contract Documents;
   b. Such amounts are properly requested, documented and permitted under the terms of the subcontract(s) and the Contract Documents.
   c. Total cost to Owner of Direct Costs of Construction (labor, equipment, materials), Markup, and costs of bonds, insurance and taxes, conform to contract limitations (i.e., totals paid by Owner do not exceed the 20% Markup limitation.).
1.07 MEASUREMENT AND PAYMENT OF MARK UP (COST COMPONENT 2)

A. Markup Percentages for Changed Work (Component 2):

1. Markup on Direct Cost of labor and materials for extra Work shall be 15%. Markup on Direct Cost of equipment for extra Work shall be 15%.

2. When extra Work is performed by Subcontractors, regardless of the number of tiers, total Markup on “Component 1” Direct Costs shall not exceed 20%. Contractor and its Subcontractors shall divide the 20% as they may agree.

3. Under no circumstances shall the total Markup on any extra Work exceed twenty (20) percent, stated as a percent of the Direct Cost of labor, equipment and materials. This limitation shall apply regardless of the actual number of subcontract tiers.

4. On proposals covering both increases and decreases in Contract Sum, Markup shall be allowed on the net increase only as determined above. When the net difference is a deletion, no percentage for Markup shall be allowed, but rather an appropriate percentage deduction shall be issued in the amount of the net difference.

B. Measurement and Payment of Mark Up (Component 2):

1. Mark Up (Component 2) provides complete compensation to Contractor for:
   a. All Contractor profit;
   b. All Contractor home-office overhead;
   c. All Contractor assumption of risk assigned to Contractor under the Contract Documents;
   d. Subject to the qualifications below regarding self-performed work, all General Conditions and General Requirements.

2. Profit. Compensation for profit included within Component 2 (Mark Up), includes without limitation: Fees of all types, nature and description; and Profit and margins of all types, nature and description.

3. Home Office Expenses. Compensation for home office expenses included within Component 2 (Mark Up), includes without limitation: Salaries and other compensation of any type of Contractor’s personnel (management, administrative and clerical), and all direct and indirect operating, travel, payroll, safety, storage, quality control, maintenance and overhead costs of any nature whatsoever, incurred by Contractor at any location other than the Project specific site office, including without limitation, Contractor’s principal or branch offices; insurance premiums other than those for Project specific insurance directed by the Owner in a change order; all hardware, software, supplies and support personnel necessary or convenient for Contractor’s capture, documentation and maintenance of its costs and cost accounting data and cost accounting and control systems and work progress reporting.

4. Assumption of Risk. Compensation for Contractor’s assumption of risk under the Contract Documents, included within Component 2 (Mark Up), includes without limitation loss, cost, damage, expense or liability resulting directly or indirectly from any of the following causes (“unallowable costs”), for Contractor and subcontractors of any tier: noncompliance with the Contract Documents, fault or negligence, defective or non-conforming Work, by Contractor or any Subcontractor or Vendor of any tier or anyone directly or indirectly employed by any of them, or for whose acts or omissions any of them are responsible or liable at law or under the Contract Documents; cost overruns of any type; costs in excess of any lump sum, not to exceed amount or GMP; costs resulting from bid or “buy out” errors, unallocated scope, or incomplete transfer of scope or contract terms to subcontractors; any costs incurred by Contractor relating to a Change in the Work without a Change Order or Change Directive in accordance with the Contract Documents; costs for work or materials for which no price is fixed in the Contract Documents, unless it is expressly specified that such work or material is to be paid for as extra work.

5. General Conditions and Division 1 General Requirements. Compensation for Contractor’s General Conditions and General Requirements Costs included within Component 2 (Mark Up), includes compensation to Contractor for: Contractor’s direct costs, without overhead
or profit, for salaries and related forms of compensation and employer’s costs for labor and personnel costs, of Contractor’s employees and subconsultant’s employees (if any), while and only to the extent they are performing Work at the Project Site. Personnel and Work compensated by this Component include without limitation: All required Project management responsibilities; all on-site services; monthly reporting and scheduling; routine field inspection of Work; general superintendence; general administration and preparation of cost proposals, schedule analysis, change orders and other supporting documentation as necessary; salaries of project superintendent, project engineers, project managers, safety manager, other manager, timekeeper, and secretaries; all cost estimates and updates thereto; development, validation and updates to the project schedule; surveying; estimating. Compensation for Contractor’s General Requirements Costs included within Component 2 (Mark Up), compensates Contractor for its “General Requirements” Costs, including without limitation: all scheduling hardware, software, licenses, equipment, materials and supplies; purchase, lease or rental, build out, procurement, supporting equipment and maintenance of temporary on-Site facilities, Project field and office trailers and other temporary facilities, office equipment and supporting utilities; platforms, fencing, cleanup and jobsite security; temporary roads, parking areas, temporary security or safety fencing and barricades, etc.; all Contractor’s motor vehicles used by any Contractor’s personnel, and all costs thereof; all health and safety requirements, required by law or Owner procedures; all surveying; all protection of Work; handling and disposal fees; final cleanup; repair or maintenance; other incidental Work; all items, activities and function similar to any of those described above; all travel, entertainment, lodging, board and the like.

6. Personnel compensated by the Markup Component do not include workers of foreman level or below in the case of self-performed work; rather, such personnel shall be treated as a Direct Cost of Construction. Costs compensated by the Markup component do not include temporary measures specifically required by the changed work, not otherwise required or ongoing in the prosecution of the Work, that commence specifically to support the changed work and conclude with the completion of the changed work. Such costs shall be treated as Direct Costs of Construction. Examples of General Requirements costs that this component may not cover are the following: temporary barricades or fencing of specific areas required specifically for the changed work; cranes required specifically for the changed work.

1.08 MEASUREMENT AND PAYMENT OF BONDS INSURANCE TAXES (COMPONENT 3)

A. Measurement of Bonds, Insurance, Taxes (Component 3):
   1. Component 3 (Bonds, Insurance, Taxes) consists of the cost of bonds, insurance and taxes, also referred to as “BIT”. All State sales and use taxes, applicable County and applicable City sales taxes, shall be included. Federal and Excise tax shall not be included.
   2. There is no mark up on BIT.

1.09 EFFECT OF PAYMENT

A. Change Order Compensation is All Inclusive.
   1. Except as provided expressly below regarding changes that extend the Contract Time, payment of calculated cost of extra work constitutes full and complete compensation for costs or expense arising from the extra Work, and is intended to be all inclusive.
   2. Payment for Direct Cost of Construction (Component 1 or LEMS) is intended to be all-inclusive. Any costs or risks not delineated within cost of labor, equipment or materials herein, shall be deemed to be within the costs and risks encompassed by the applicable Markups and unallowable in any separate amount.
   3. Payment of Markup (Component 2) is intended to be all-inclusive. Contractor waives claims for any further or different payment of cost and risk items delineated herein, other than the allowable percentage markup on costs set forth in the Contract Documents; such separate, further or different cost or risk items shall be unallowable, waived and liquidated within the allowable percentage markup.
4. Contractor shall recover no other costs or markups on extra work of any type, nature or description.

B. Exception for Changes Extending the Contract Time.

1. Where a change in the Work extends the Contract Time, Contractor may request and recover additional, actual direct costs, provided Contractor can demonstrate such additional costs are (i.) actually incurred performing the Work, (ii.) not compensated by the Markup allowed, and (iii) directly result from the extended Contract Time. Contractor shall make such request and provide such documentation following all required procedures, documentation and time requirements in the Contract Documents, and subject to all contract limitations of liability. Contractor may not seek or recover such costs using formulas (e.g., Eichleay).

C. Limits of Liability / Accord and Satisfaction.

1. The foregoing limits of compensation apply in all cases of claims for changed Work, whether calculating Change Proposal Requests, Change Orders or CDs, or calculating claims and/or damages of all types, and applies even in the event of fault, negligence, strict liability, or tort claims of all kinds, including strict liability or negligence. Contractor may recover no other costs arising out of or connected with the performance of extra Work, of any nature.

2. Under no circumstances may Contractor claim or recover special, incidental or consequential damages against Owner, its representatives or agents, whether arising from breach of contract, negligence, strict liability or other tort or legal theory, unless specifically and expressly authorized in the Contract Documents.

3. No change in Work shall be considered a waiver of any other condition of Contract Documents. No claim shall be made for anticipated profit, for loss of profit, for damages, or for extra payment whatever, except as expressly provided for in Contract Documents.

4. Accord and Satisfaction: Every Change Order and accepted CD shall constitute a full accord and satisfaction, and release, of all Contractor (and if applicable, Subcontractor) claims for additional time, money or other relief arising from or relating to the subject matter of the change including, without limitation, impacts of all types, cumulative impacts, inefficiency, overtime, delay and any other type of claim. Contractor may elect to reserve its rights to disputed claims arising from or relating to the changed Work at the time it signs a Change Order or approves a CD, but must do so expressly in a writing delivered concurrently with the executed Change Order or approved CD, and must also submit a Claim for the reserved disputed items pursuant to Article 12 of Document 00 7200 (General Conditions) no later than thirty (30) days after Contractor’s first written notice of its intent to reserve rights. Execution of any Change Order or CD shall constitute Contractor’s representation of its agreement with this provision.

1.010 MISCELLANEOUS REQUIREMENTS

A. Owner-Furnished Materials.

1. Owner reserves right to furnish materials as it deems advisable, and Contractor shall have no claims for costs and Markup on such materials.

B. Records And Certification.

1. All charges shall be recorded daily and summarized in Change Proposal Request form attached hereto. Contractor or authorized representative shall complete and sign form each day. Contractor shall also provide with the form: the names and classifications of workers and hours worked by each; an itemization of all materials used; and a list by size type and identification number of equipment and hours operated.

2. Owner shall have the right to audit all records in possession of Contractor relating to activities covered by Contractor’s claims for modification of Contract, including CD Work. This right shall be specifically enforceable, and any failure of Contractor to voluntarily
comply shall be deemed an irrevocable waiver and release of all claims then pending that were or could have been subject to Article 12 of Document 00 7200 (General Conditions).

PART 2 – PRODUCTS – NOT USED

PART 3 – EXECUTION – NOT USED

END OF SECTION

COST PROPOSAL FORM FOLLOWS ON NEXT PAGE
COST PROPOSAL (CP)

Owner [Insert Project Name]  
Contract Number __________  
CP Number: ____________________  
Date: ____________________  
In Response To ____________________  
RFP #, etc.

To: [Insert Name of Owner]  
Attention: [______________]  
[Insert Owner’s Address]  
Phone: (___) ___- _____  
Fax: (___) ___-_____

From: [Insert Contractor’s Name/Address]  

This Cost Proposal is in response to the above-referenced ________ [insert RFP, etc. as applicable]. 
Brief description of change(s): ____________________________________________________________

<table>
<thead>
<tr>
<th>ITEM DESCRIPTION</th>
<th>PRIME CONTRACTOR</th>
<th>SUB 1</th>
<th>SUB 2</th>
<th>SUB 3</th>
<th>SUB 4</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATERIAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LABOR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EQUIPMENT</td>
<td>Other (Specify) Extended Overhead</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TOTAL COST

Subcontractor’s Overhead & Profit 15 percent
Contractor’s Overhead & Profit 15 percent
Overhead & Profit to Contractor for Subcontractor’s Work 5 percent
(percentage of Total Cost above not including any Overhead & Profit – may not exceed 20%)

GRAND TOTAL

REQUESTED CHANGE IN CONTRACT TIME (DAYS)  
(Time Impact Evaluation Enclosed)

By Contractor:     Signature:    Date:

Modification Procedures  
Merritt College Science Building Site Paving  
01 2600 - 11
Merritt College Science Building Site Paving

SECTION 01 3119

PROJECT MEETINGS

PART 1 – GENERAL

1.01 SUMMARY

A. Section includes description of required project meetings.

1.02 PRECONSTRUCTION CONFERENCE

A. Preconstruction Conference. Owner will call for and administer Preconstruction Conference at time and place to be announced (usually the week prior to start of Work at the Site). Contractor, all major Subcontractors, and major suppliers shall attend Preconstruction Conference. Agenda may include, but not be limited to, the following items:

1. Schedules
2. Personnel and vehicle permit procedures
3. Use of premises
4. Location of the Contractor’s on-Site facilities
5. Security
6. Housekeeping
7. Submittal and RFI procedures
8. Inspection and testing procedures, on-Site and off-Site
9. Utility shutdown procedures
10. Control and reference point survey procedures
11. Injury and Illness Prevention Program
12. Contractor’s Initial Progress Schedule
13. Contractor’s Schedule of Values
14. Contractor’s Schedule of Submittals
15. Jurisdictional agency requirements
16. Owner will distribute copies of minutes to attendees. Attendees shall have 7 Days to submit comments or additions to minutes. Minutes will constitute final memorialization of results of Preconstruction Conference.

1.03 WEEKLY PROJECT MEETINGS

A. Owner will schedule and administer weekly progress meetings throughout duration of Work. Progress meetings will be held weekly unless otherwise directed by Owner. Meetings shall be held at Owner’s Offices unless otherwise specified in Contract Documents.

1. Owner’s Representative will prepare agenda and distribute it 4 Days in advance of meeting to Contractor.
2. Participants with agenda items shall present them.
3. The Architect/Engineer and other responsible entities shall attend meetings unless otherwise specified in Contract Documents or provided by Owner.
4. Owner shall record and distribute the meeting minutes. Minutes shall be distributed by the Owner to the Contractor within 3 business days after the meeting. Contractor shall distribute the minutes to those affected by decisions made at meeting. Attendees shall have five business days to submit comments or additions to the minutes. Minutes shall constitute final memorialization of results of meeting.
5. Progress meetings shall be attended by Contractor’s job superintendent, major Subcontractors and suppliers, Owner, and others as appropriate to agenda topics for each meeting.
6. Agenda may contain the following items, as appropriate:
a. Review, revise as necessary, and approve previous meeting minutes
b. Review of Work progress since last meeting
c. Status of Construction Work Schedule, delivery schedules, adjustments
d. Submittal, RFI, and Change Order status
e. Review of the Contractor’s safety program activities and results, including report on all serious injury and/or damage accidents
f. Other items affecting progress of Work

1.04 PROGRESS SCHEDULE AND BILLING MEETINGS

A. A meeting will be held on approximately the 20th of each month to review the schedule update submittal and progress payment application.
B. At this meeting, at a minimum, the following items will be reviewed:
   1. Percent complete of each activity;
   2. Time impact evaluations for Change Orders and Time Extension Request;
   3. Actual and anticipated activity sequence changes;
   4. Actual and anticipated duration changes; and
   5. Actual and anticipated Contractor delays.
C. These meetings are considered a critical component of overall monthly schedule update submittal and Contractor shall have appropriate personnel attend. At a minimum, Contractor’s General Superintendent and Scheduler shall attend these meetings.

PART 2 – PRODUCTS – NOT USED

PART 3 – EXECUTION – NOT USED

END OF SECTION
Merritt College Science Building Site Paving
SECTION 01 3230
PROGRESS SCHEDULES AND SUBMITTALS

PART 1 – GENERAL
1.01 SUMMARY
   A. Section includes description of requirements and procedures for submitting progress schedules and submittals.

1.02 CONTRACTOR TO SUBMIT PROGRESS SCHEDULES
   A. Contractor shall submit original (baseline) progress schedule two weeks prior to the first Application for Payment.
   B. Baseline Progress Schedule shall show Contractor’s construction and procurement activities, including but not limited to, equipment procurement and delivery (Contractor and Owner supplied), activities with Subcontractors and suppliers, major submittal reviews, commissioning of systems, use of major equipment on site, and necessary interface with Owner and third parties required to complete the Work in a timely manner and in accordance with Contract Time.

1.03 SCHEDULE REQUIREMENTS.
   A. Unless Owner agrees in writing otherwise, progress schedule shall be on Microsoft Project, Primavera P6, Suretrack, or equivalent software, as Owner may specify, which Contractor shall prepare and supply to Owner, with all datapoint entries completed for start dates, necessary work activities, durations (not longer than 21 calendar days) and logic ties.
   B. Contractor’s progress schedule may be in the form of a CPM (arrow) diagram or, if Owner agrees in writing, a bar chart. The hard copies of the schedule supplied to Owner shall indicate the critical path of the Work (in red) and shall show a logical progression of the Work through completion within Contract Time.
   C. Unless Owner agrees in writing otherwise, progress schedule shall also show early and late start and finish dates and total available float (float to the successor activity’s late start date) for each activity. Owner has no obligation to accept an early completion schedule.

1.04 MONTHLY UPDATES
   A. Contractor’s progress schedule shall be updated monthly to reflect actual progress. The schedule shall be subject to Owner’s review and acceptance for use in monitoring Contractor’s Work and evaluating Applications for Payment.
   B. Contractor shall supply Owner with an electronic copy of the updated progress schedule with each monthly payment application. Contractor shall provide Owner with three-week lookahead schedules weekly, showing in detail and activities and resources scheduled for the immediate two week period.

1.05 RECOVERY SCHEDULE
   A. Owner may request a recovery schedule should Contractor fall 21 or more Days behind any schedule Milestone, which schedule shall show Contractor’s plan and resources committed to retain Contract completion dates.
   B. The recovery schedule shall show the intended critical path. If Owner requests, Contractor shall also:
      1. Secure and demonstrate appropriate Subcontractor and supplier consent to the recovery Schedule.
      2. Submit a narrative explaining trade flow and construction flow changes and man-hour loading assumptions for major Work activities and/or Subcontractors.
1.06 TIME IMPACT EVALUATION ("TIE") FOR CHANGE ORDERS, TIME EXTENSIONS AND DELAYS:

A. When Contractor requests a time extension for any reason, Contractor shall submit a TIE that includes both a written narrative and a schedule diagram depicting how the changed Work or other impact affects other schedule activities. The schedule diagram shall show how Contractor proposes to incorporate the changed Work or other impact in the schedule and how it impacts the current Schedule update critical path or otherwise. Contractor is also responsible for requesting time extensions based on the TIE’s impact on the critical path. The diagram shall be tied to the main sequence of scheduled activities to enable Owner to evaluate the impact of changed Work to the scheduled critical path.

B. Contractor is responsible for all costs associated with the preparation of TIE’s, and the process of incorporating TIE’s into the current schedule update. Provide Owner with four copies of each TIE.

PART 2 – PRODUCTS – NOT USED

PART 3 – EXECUTION – NOT USED

END OF SECTION
PART 1 – PART 1 GENERAL

1.01 SUMMARY

A. Section includes description of requirements and procedures for submittals.

1.02 SCHEDULE OF SUBMITTALS

A. Contractor shall prepare for Owner’s review and acceptance prior to commencement of work on the Site, for purposes of contract administration, a schedule of submittals (also referred to as a submittal register) required to complete the Work, prepared by Contractor and accepted by Owner for contract administration. Schedule of submittals shall include, for each submittal: the specification or drawing reference requiring the submittal, if applicable; the material, item, or process for which the submittal is required; the submittal number and identifying title of the submittal; the Contractor’s anticipated submission date and the approval need date.

B. Contractor shall update monthly the schedule of submittals to reflect actual submission and acceptance dates for submittals. Review by Owner of schedule of submittals does not excuse Contractor of obligation to supply, schedule and coordinate all submittals required by the Contract Documents.

1.03 CONTRACTOR TO SUBMIT SHOP DRAWINGS, PRODUCT DATA AND SUBMITTALS.

A. Contractor shall review for compliance with Contract Documents, approve and submit to Owner Shop Drawings, Product Data, Samples and similar submittals required by Contract Documents.

B. Contractor shall schedule and submit concurrently submittals covering component items forming a system or items that are interrelated. Contractor shall include certifications to be submitted with the pertinent drawings at the same time.

C. Contractor shall coordinate scheduling, sequencing, preparing and processing of all submittals with performance of work so that work will not be delayed by submittal processing.

D. Submittals shall specifically identify any Work depicted that does not conform to the Contract Documents.

1.04 OWNER REVIEW OF SHOP DRAWINGS, PRODUCT DATA AND SUBMITTALS.

A. After review by Owner of each Submittal, material will be returned to Contractor with actions defined as follows:

1. NO EXCEPTIONS TAKEN - Accepted subject to its compatibility with general design concept of the Work, future Submittals and additional partial Submittals for any portions of the Work not covered in this Submittal. Does not constitute acceptance or deletion of specified or required items not shown on the Submittal.

2. MAKE CORRECTIONS NOTED (NO RESUBMISSIONS REQUIRED) - Same as item 1 above, except that minor corrections as noted shall be made by Contractor.

3. REVISE AS NOTED AND RESUBMIT - Rejected because of major inconsistencies or
errors that shall be resolved or corrected by Contractor prior to subsequent review by Owner.

4. **REJECTED - RESUBMIT** - Submitted material does not conform to Drawings and/or Specifications in major respect, i.e.: wrong size, model, capacity, or material.

B. Favorable review will not constitute acceptance by Owner of any responsibility for the accuracy, coordination, or completeness of the Submittals. Accuracy, coordination, and completeness of Submittals shall be sole responsibility of Contractor, including responsibility to back-check comments, corrections, and modifications from Owner’s review before fabrication. Contractor, Subcontractors, or suppliers may prepare Submittals, but Contractor shall ascertain that Submittals meet requirements of Contract Documents, while conforming to structural space and access conditions at point of installation. Owner’s review will be only to assess if the items covered by the Submittals will, after installation or incorporation in the Work, conform to the information given in the Contract Documents and be compatible with the design concept of the completed Project as indicated by the Contract Documents. Favorable review of Submittal, method of Work, or information regarding materials and equipment Contractor proposes to furnish shall not relieve Contractor of responsibility for errors therein and shall not be regarded as assumption of risks or liability by Owner, or any officer or employee thereof, and Contractor shall have no claim under Contract Documents on account of failure or partial failure or inefficiency or insufficiency of any plan or method of Work or material and equipment so accepted. Favorable review shall be considered to mean merely that Owner has no objection to Contractor using, upon Contractor’s own full responsibility, plan or method of Work proposed, or furnishing materials and equipment proposed.

C. Unless otherwise specified, Owner’s review will not extend to the means, methods, techniques, sequences, or procedures of construction or to safety precautions or programs incident thereto. The review and approval of a separate item as such will not indicate approval of the assembly in which the item functions.

D. Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples or similar submittals until the respective submittal has been favorably reviewed by the Owner; otherwise, any such Work is at Contractor’s sole risk.

**PART 2 – PRODUCTS – NOT USED**

**PART 3 – EXECUTION – NOT USED**

**END OF SECTION**
SECTION 01 35 44

LEED REQUIREMENTS

1. PART 1 - GENERAL

1.1. SECTION INCLUDES

1.1.1. This Section includes general requirements and procedures for compliance with certain U.S. Green Building Council's (USGBC) LEED prerequisites and credits needed for the Project, to obtain LEED Gold Certification.

1.1.1.1. Other LEED prerequisites and credits needed to obtain LEED certification are dependent on material selections and may not be specifically identified as LEED requirements. Compliance with requirements needed to obtain LEED prerequisites and credits may be used as one criterion to evaluate substitution requests.

1.1.1.2. Additional LEED prerequisites and credits needed to obtain the indicated LEED certification are dependent on the Architect's design and other aspects of the Project that are not part of the Work of the Contract.

1.2. DEFINITIONS

1.2.1. LEED: Leadership in Energy & Environmental Design.

1.2.2. Regionally Manufactured Materials: Materials that are manufactured within a radius of 500 miles from the Project location. Manufacturing refers to the final assembly of components into the building product that is installed at the Project site.

1.2.3. Regionally Extracted, Harvested, or Recovered Materials: Materials that are extracted, harvested, or recovered and manufactured within a radius of 500 miles from the Project site.

1.2.4. Recycled Content: The percentage by weight of constituents that have been recovered or otherwise diverted from the solid waste stream, either during the manufacturing process (pre-consumer), or after consumer use (post-consumer).

1.2.4.1. Spills and scraps from the original manufacturing process that are combined with other constituents after a minimal amount of reprocessing for use in further production of the same product are not recycled materials.

1.2.4.2. Post consumer recycle content is derived from materials that were previously used by consumers. Examples of this would include used beverage containers, automobile tires or asphalt roadways.

1.3. SUBMITTALS

1.3.1. General: Submit additional LEED submittal requirements included in other sections of the Specifications.

1.3.2. LEED submittals are in addition to other submittals. If submitted item is identical to that submitted to comply with other requirements, submit duplicate copies as a separate submittal to verify compliance with indicated LEED requirements.
1.3.3. LEED Action Plans: Provide preliminary submittals within 15 days of date established for the Notice to Proceed indicating how the following requirements will be met.

1.3.3.1. Credit MR 2: Waste management plan complying with Section 01 74 00 Cleaning and Waste Management

   1.3.3.1.1. Construction waste management plan should identify the diversion goals, relevant construction debris and materials to be diverted, implementation protocols, and parties responsible for implementing the plan.

1.3.3.2. Credit MR 4: List of proposed materials with recycled content.

   1.3.3.2.1. Indicate material name, manufacturer, material cost, post-consumer recycled content, and pre-consumer recycled content, recycled content information source for each product having recycled content.

1.3.3.3. Credit MR 5: List of proposed regionally manufactured materials and regionally extracted, harvested, or recovered materials.

   1.3.3.3.1. The eligible radius around the jobsite in Oakland, CA 94619 would be approximately as far north as Eugene, Oregon, as far south as Temecula, California and as far east as Ely, Nevada.

   1.3.3.3.2. Identify each regionally manufactured material, its manufacturing location, and cost. Identify each sub-component of the regionally manufactured material that is regionally extracted, harvested or recovered material, its source, distance and cost. The cost percentage ratio of the sub-component’s cost to the manufactured material must be able to be determined or should be provided. This is considered the percentage that the manufactured product is compliant.

   1.3.3.3.3. Identify each regionally extracted, harvested or recovered material, its source, distance and cost.

1.3.4. LEED Documentation Submittals:

1.3.4.1. SS Prerequisite 1: Construction Activity Pollution Prevention.

   1.3.4.1.1. Submit narrative to describe Erosion and Sedimentation Control Measures for the Project.

   1.3.4.1.2. Provide specific information that the standard utilized is equal to or more stringent than the National Pollutant Discharge Elimination System.

   1.3.4.1.3. Submit photo’s an inspection reports or logs (see form “PRE-STORM, POST-STORM, AND WEEKLY INSPECTION REPORT”) to document control measures implemented.

1.3.4.2. Credit SS 4.3: Alternate Transportation, Low Emitting and Fuel Efficient Vehicles.
1.3.4.3. Credit SS 5.2: Site Development, Maximize open space.

1.3.4.4. Credit SS 6.1: Stormwater Design, Quantity Control.

1.3.4.5. Credit SS 6.2: Stormwater Design, Quality Control.

1.3.4.6. Credit SS 7.1: Heat Island Effect, Non-Roof.

1.3.4.7. Credit MR 4: Product Data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content. Include statement-indicating costs for each project having recycled content.

1.3.4.8. Credit MR 5: Product Data indicating location of material manufacturer for manufactured material. Include statement indicating cost and distance from manufacturer to Project for each regionally manufactured material. Include statement indicating cost and distance from point of extraction, harvest, or recovery to Project for each raw material used in regionally manufactured materials.

2. PART 2 - PRODUCTS

2.1. RECYCLED MATERIALS

2.1.1. Credit MR 4.1: Provide building materials with recycled content such that post-consumer recycled content constitutes a minimum of ten percent of the cost of materials used for the Project or such that post-consumer recycled content plus one-half of pre-consumer recycled content constitutes a minimum of 20 percent of the cost of materials used for the Project. The 20% minimum goal is considered over the entire projects materials costs. There are some materials that have been identified to contribute more weight to the overall average and the percentage to be achieved for these materials is listed in their individual section. The following list of materials has been identified as a basis of design for recycled materials.

2.1.1.1. Concrete Reinforcing
2.1.1.2. Cast-in Place Concrete
2.1.1.3. Metal Fabrications
2.1.1.4. Steel Hardware
2.1.1.5. Aggregate Base
2.1.1.6. Paving

2.2. REGIONAL MATERIALS

2.2.1. Credit MR 5.1: Provide at least 10 percent (by cost) that are regionally extracted, harvested, or recovered materials. The 10% target is considered over the entire projects material costs. There are some materials that have been identified to contribute more weight to the overall average and the percentage to be achieved for these materials is listed in their individual section. The following list of materials has been established as a basis of design for regional materials.

2.2.1.1. Concrete Reinforcing
2.2.1.2.  Cast-in Place Concrete
2.2.1.3.  Aggregate Base
2.2.1.4.  Metal Fabrications
2.2.1.5.  Paving

3.  PART 3  EXECUTION

END OF SECTION
Merritt College Science Building Site Paving

SECTION 01 4100

REGULATORY REQUIREMENTS

PART 1 – GENERAL

1.01 SUMMARY

A. Section includes:
1. Regulatory requirements applicable to Contract Documents
2. Required provisions under Local Agency Disputes Act
3. Required references under federal law

1.02 GENERAL

A. Compliance with Laws
1. Conform to all applicable codes, laws, ordinances, rules and regulations, which shall have full force and effect as though printed in full in these Specifications. Codes, laws, ordinances, rules, regulations and ordinances (Regulatory Requirements) are not furnished to Contractor, because Contractor is assumed to be familiar with these requirements.
2. Any listing of Regulatory Requirements for hazardous waste abatement Work in the Contract Documents is supplied to Contractor as a courtesy and shall not limit Contractor’s responsibility for complying with all applicable Regulatory Requirements having application to the Work. Where conflict among the Regulatory Requirements or with these Specifications occurs, the most stringent requirements shall be used.
3. Specific reference in the Specifications to codes and regulations or requirements of regulatory agencies shall mean the latest printed edition of each adopted by the regulatory agency in effect at the time of the opening of Bids, except as may be otherwise specifically stated in the Contract Documents.

B. Precedence
1. Where specified requirements differ from Regulatory Requirements, the more stringent requirements shall take precedence. Where Drawings or Specifications require or describe products or execution of better quality, higher standard or greater size than required by Regulatory Requirements, then Drawings and Specifications shall take precedence so long as such increase is legal. Where no requirements are identified on Drawings or in Specifications, comply with all Regulatory Requirements of governing authorities having jurisdiction.
2. Should any conditions develop not covered by the Contract Documents wherein the finished Work will not comply with current codes, a Change Order detailing and specifying the required Work shall be submitted to and approved by Owner before proceeding with the Work.

1.03 REGULATORY REQUIREMENTS

A. Applicable Codes
1. Codes that apply to Contract Documents include all Codes applicable to construction, including, but not limited to, the following:
b. California Electrical Code (2010 Edition or latest applicable code) as amended by applicable local ordinances for all construction work.
c. California Plumbing Code (2010 Edition or latest applicable code) as amended by applicable local ordinances for plumbing, sewage disposal and health requirements.
d. California Mechanical Code (2010 Edition or latest applicable code) as amended by applicable local ordinances for all construction work.
e. California Fire Code (2010 Edition or latest applicable code) as amended by applicable local ordinances for all construction work.
f. California Administrative Code Titles 15, 19 and 24 (with California amendments), and Americans with Disabilities Act (ADA) accessibility guidelines, whichever is more stringent.
g. All State laws and City and County Ordinances, rules of the State or City or County Health Departments, rules of the National Board of Fire Underwriters and National Fire Protection Associations, and local power company regulations for mechanical and electrical work.

B. Applicable Laws, Statutes, Ordinances, Rules, And Regulations

1. During prosecution of Work to be done under Contract Documents, Contractor shall comply with applicable laws, ordinances, rules and regulations, including, but not limited to, the following:
   a. Federal:
      1) Americans With Disabilities Act of 1990
      2) 29 CFR, Section 1910.1001, Asbestos
      3) 40 CFR, Subpart M, National Emission Standards for Asbestos
      4) Executive Order 11246
      5) Federal Endangered Species Act
      6) Clean Water Act

   b. State of California:
      1) California Code of Regulations, Titles 5, 8, 17, 19, 21, 22, 24 and 25
      2) California Public Contract Code
      3) California Health and Safety Code
      4) California Government Code
      5) California Labor Code
      6) California Civil Code
      7) California Code of Civil Procedure
      8) CPUC General Order 95, Rules for Overhead Electric Line Construction
      9) CPUC General Order 128, Rules for Construction of Underground Electric Supply and Communications Systems
      10) Cal/OSHA
      11) OSHA: Hazard Communications Standards
      12) California Endangered Species Act
      13) Water Code
      14) Fish and Game Code

   c. State of California Agencies:
      1) State and Consumer Services Agency
      2) Office of the State Fire Marshall
      3) Office of Statewide Health Planning and Development
      4) Department of Fish and Game
      5) All Air Quality Management Districts with jurisdiction
      6) All Regional Water Quality Control Boards with jurisdiction
      7) Division of the State Architect (if having jurisdiction)

   d. All Local Agencies with jurisdiction (cities, counties, fire departments)
C. Change Orders and Claims:

1. The California Public Contract Code, including but not limited to Section 7105(d)(2), and the California Government Code Section 930.2 et seq., apply to all contract procedures for changes, time extensions, change orders (time or compensation) and claims. Federal law (U.S. v. Holpuch 326 U.S. 234) shall supplement California law on the enforceability of these requirements.

2. Any change, waiver, or omission to implement contract change order and claim procedures shall have no legal effect unless expressly permitted in a fully executed change order approved by Contractor and Owner and approved as to form by their respective legal counsel.

D. Required Provisions On Contract Claim Resolution

1. The California Public Contract Code specifies required provisions on resolving contract claims less than $375,000, which are set forth below, and constitute a part of this Contract.

2. For the purposes of this section, “Claim” means a separate demand by Contractor of $375,000 or less for (1) a time extension, (2) payment or money or damages arising from Work done by or on behalf of Contractor arising under the Contract Documents and payment of which is not otherwise expressly provided for or the Claimant is not otherwise entitled to, or (3) an amount the payment of which is disputed by Owner. In order to qualify as a Claim, the written demand must state that it is a Claim submitted under paragraph 12 of Document 00 7200 (General Conditions) and be submitted in compliance with all requirements of Document 00 7200 (General Conditions), paragraph 12. Separate Claims which total more than $375,000 do not qualify as a “separate demand of $375,000 or less,” as referenced above, and are not subject to this section.

3. A voucher, invoice, payment application, or other routine or authorized form of request for payment is not a Claim for purposes of this section. If such request is disputed as to liability or amount, then the disputed portion of the submission may be converted to a Claim under this section by submitting a separate claim in compliance with Contract Documents claim submission requirements.

4. Caution. This section does not apply to tort claims and nothing in this section is intended nor shall be construed to change the time periods for filing tort claims or actions specified by Chapter 1 and Chapter 2 of Part 3 of Division 3.6 of Title 1 of the California Government Code.

5. Procedure:

   a. The Claim must be in writing, submitted in compliance with all requirements of Document 00 7200 (General Conditions), paragraph 12, including, but not limited to, the time prescribed by and including the documents necessary to substantiate the Claim, pursuant to Document 00 7200 (General Conditions), paragraph 12.3. Claims must be filed on or before the day of final payment. Nothing in this section is intended to extend the time limit or supersede notice requirements for the filing of claims as set forth in Document 00 7200 (General Conditions), paragraph 12 or elsewhere in the Contract Documents.

   b. For Claims of fifty thousand dollars ($50,000) or less, Owner shall respond in writing within forty-five (45) days of receipt of the Claim, or Owner may request in writing within thirty (30) days of receipt of the Claim, any additional documentation supporting the Claim or relating to any defenses or claims Owner may have against Claimant. If additional information is thereafter required, it shall be requested and provided in accordance with this section upon mutual agreement of Owner and Claimant. Owner’s written response to the Claim, as further documented, shall be submitted to Claimant within fifteen (15) days after receipt of further documentation or within a period of time no greater than taken by Claimant in producing the additional information, whichever is greater.

   c. For Claims over Fifty Thousand Dollars ($50,000) and less than or equal to $375,000: Owner shall respond in writing within sixty (60) days of receipt of the Claim, or Owner may request in writing within thirty (30) days of receipt of the Claim,
any additional documentation supporting the Claim or relating to any defenses or claims Owner may have against Claimant. If additional information is thereafter required, it shall be requested and provided in accordance with this section, upon mutual agreement of Owner and Claimant; Owner’s written response to the Claim, as further documented, shall be submitted to Claimant within thirty (30) days after receipt of further documentation or within a period of time no greater than taken by Claimant in producing the additional information, whichever is greater.

d. Meet and Confer: If Claimant disputes Owner’s written response, or Owner fails to respond within the time prescribed above, Claimant shall notify Owner, in writing, either within fifteen (15) days of receipt of Owner’s response or within fifteen (15) days of Owner’s failure to timely respond, and demand an informal conference to meet and confer for settlement of the issues in dispute. Upon demand Owner will schedule a meet and confer conference within thirty (30) days for settlement of the dispute.

e. Following the meet and confer conference, if the Claim or any portion remains in dispute, Claimant may file a claim as provided in Chapter 1 (commencing with Section 900) and Chapter 2 (commencing with Section 910) of Part 3 of Division 3.6 of Title 1 of the California Government Code. For purposes of those provisions, the running of the period of time within which a claim must be filed shall be tolled from the time Claimant submits its written claim as set forth herein, until the time that Claim is denied as a result of the meet and confer process, including any period of time utilized by the meet and confer process.

E. Compliance With Americans With Disabilities Act

1. Contractor acknowledges that, pursuant to the Americans with Disabilities Act (ADA), programs, services and other activities provided by a public entity to the public, whether directly or through a Contractor, must be accessible to the disabled public. Contractor shall provide the services specified in the Contract Documents in a manner that complies with the ADA and any and all other applicable federal, state and local disability rights legislation. Contractor agrees not to discriminate against disabled persons in the provision of services, benefits or activities provided under the Contract Documents and further agrees that any violation of this prohibition on the part of Contractor, its employees, agents or assigns shall constitute a material breach of the Contract Documents.

F. Compliance With IRCA

1. Contractor acknowledges that Contractor, and all subcontractors hired by Contractor to perform services under this Agreement, are aware of and understand the immigration Reform and Control Act (“IRCA”). Contractor is and shall remain in compliance with the IRCA and shall ensure that any subcontractors hired by Contractor to perform services under this Agreement are in compliance with the IRCA. In addition, Contractor agrees to indemnify, defend and hold harmless Owner, its agents, officers and employees, from any liability, damages or causes of action arising out of or relating to any claims that Contractor’s employees, or employees of any subcontractor hired by Contractor, are not authorized to work in the United States for Contractor or its subcontractor and/or any other claims based upon alleged IRCA violations committed by Contractor or Contractor’s subcontractors.

PART 2 – PRODUCTS – NOT USED

PART 3 – EXECUTION – NOT USED

END OF SECTION
PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:
   1. Reference standards, abbreviations, symbols, and definitions used in Contract Documents.
   2. Full titles are given in this Section for standards cited in other Sections of Specifications.

1.02 REFERENCE TO STANDARDS AND SPECIFICATIONS OF TECHNICAL SOCIETIES; REPORTING AND RESOLVING DISCREPANCIES

A. References
   1. Reference to standards, specifications, manuals, or codes of any technical society, organization, or association, or to the laws or regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard, specification, manual, code, or laws or regulations in effect at the time of opening of Bids, except as may be otherwise specifically stated in the Contract Documents.
   2. If during the performance of the Work, Contractor discovers any conflict, error, ambiguity, or discrepancy within the Contract Documents or between the Contract Documents and any provision of any such law or regulation applicable to the performance of the Work or of any such standard, specification, manual, or code or of any instruction of any supplier, Contractor shall report it in writing at once to Owner’s Representative and Architect/Engineer, and Contractor shall not proceed with the Work affected thereby until consent to do so is given by Owner.

B. Precedence
   1. Except as otherwise specifically stated in the Contract Documents or as may be provided by Change Order, CCD, or Supplemental Instruction, the provisions of the Contract Documents shall take precedence in resolving any conflict, error, ambiguity, or discrepancy between the provisions of the Contract Documents and:
      a. The provisions of any such standard, specification, manual, code, or instruction (whether or not specifically incorporated by reference in the Contract Documents); or
      b. The provisions of any such laws or regulations applicable to the performance of the Work (unless such an interpretation of the provisions of the Contract Documents would result in violation of such law or regulation).
   2. No provision of any such standard, specification, manual, code, or instruction shall be effective to change the duties and responsibilities of Owner, Owner’s Representative, Architect/Engineer or Contractor, or any of their subcontractors, consultants, agents, or employees, from those set forth in the Contract Documents, nor shall it be effective to assign to Owner, Architect/Engineer, or any of their consultants, agents, representatives or employees any duty or authority to supervise or direct the furnishing or performance of the Work or any duty or authority to undertake responsibility inconsistent with the provisions of the Contract Documents.

C. Referenced Grades, Classes, and Types:
1. Where an alternative or optional grade, class, or type of product or execution is included in a reference but is not identified in Drawings or in Specifications, provide the highest, best, and greatest of the alternatives or options for the intended use and prevailing conditions.

D. **Edition Date of References:**
1. When an edition or effective date of a reference is not given, it shall be understood to be the current edition or latest revision published as of the date of opening Bids.
2. All amendments, changes, errata and supplements as of the effective date shall be included.

E. **ASTM and ANSI References:** Specifications and Standards of the American Society for Testing and Materials (ASTM) and the American National Standards Institute (ANSI) are identified in the Drawings and Specifications by abbreviation and number only and may not be further identified by title, date, revision, or amendment. It is presumed that Contractor is familiar with and has access to these nationally- and industry-recognized specifications and standards.

1.03 **DEFINITIONS**

A. **Meaning of Words and Phrases**
Wherever any of the words or phrases defined below, or a pronoun used in place thereof, is used in any part of the Contract Documents, it shall have the meaning here set forth. Where abbreviations and symbols are used, such abbreviations and symbols shall be given their common meaning in the construction industry. In the Contract Documents, the neuter gender includes the feminine and masculine, and the singular number includes the plural.

While Owner has made an effort to identify all defined terms with initial caps, the following definitions shall apply regardless of case unless the context otherwise requires:

1. **Addenda:** Written or graphic instruments issued prior to the opening of Bids, which clarify, correct, or change the bidding requirements or the Contract Documents. Addenda shall not include the minutes of the Pre-Bid Conference and/or Site Visit.

2. **Agreement (Document 00 5200):** Agreement is the basic Contract Document that binds the parties to construction Work. Agreement defines relationships and obligations between Owner and Contractor and by reference incorporates Conditions of Contract, Drawings, and Specifications and contains Addenda and all Modifications subsequent to execution of Contract Documents.

3. **Alternate:** Work added to or deducted from the base Bid, if accepted by Owner.

4. **Application for Payment:** Written application for monthly or periodic progress or final payment made by Contractor complying with the Contract Documents.

5. **Approved Equal:** Approved in writing by Owner as being of equivalent quality, utility and appearance.

6. **Architect/Engineer:** If used elsewhere in the Contract Documents, “Architect/Engineer” shall mean a person (or that person’s firm) holding a valid California State Architect’s or Engineer’s license representing the Owner in the administration of the Contract Documents. Architect/Engineer may be an employee of or an independent consultant to Owner. When Architect/Engineer is referred to within the Contract Documents and not an employee of Owner, Architect/Engineer shall be construed to include employees of Architect/Engineer and/or employees that Architect/Engineer supervises. When the designated Architect/Engineer is an employee of Owner, his or her authorized representatives on the Project will be included under the term Architect/Engineer. If Architect/Engineer is an employee of Owner, Architect/Engineer is the beneficiary of all Contractor obligations to Owner, including without limitation, all releases and indemnities. Architect/Engineer may also be referred to as Architect or Engineer.
7. Asbestos: Any material that contains more than one percent asbestos and is friable or is releasing asbestos fibers into the air above current action levels established by OSHA or Cal/OSHA.

8. Bid: The offer or proposal of the Bidder submitted on the prescribed form(s) setting forth the prices for the Work to be performed.


10. Bidding Documents: All documents comprising the Project Manual (including all documents and Specification Sections listed in Document 00 0110 [Table of Contents]), including documents supplied for bidding purposes only and Contract Documents.


12. Business Day: Any Day other than Saturday, Sunday, and the following days that have been designated as holidays by Owner. If a holiday falls on a Saturday, the preceding Friday will be the holiday. If a holiday falls on a Sunday, the following Monday will be the holiday.
   a. New Year’s Day, January 1;
   b. Martin Luther King Jr.’s Birthday, third Monday in January;
   c. Lincoln’s Birthday, February 12;
   d. Presidents’ Day, third Monday in February;
   e. Memorial Day, last Monday in May;
   f. Independence Day, July 4;
   g. Labor Day, first Monday in September;
   h. Veterans’ Day, November 11;
   i. Thanksgiving Day, as designated by the President;
   j. The Day following Thanksgiving Day;
   k. Christmas Day, December 25; and
   l. Each day appointed by the Governor of California and formally recognized by the Governing Board as a day of mourning, thanksgiving, or special observance.

13. By Owner: Work that will be performed by Owner or its agents at the Owner’s expense.

14. By Others: Work that is outside scope of Work to be performed by Contractor under this Contract, which will be performed by Owner, other contractors, or other means.

15. Change Order: A written instrument prepared by Owner and signed by Owner and Contractor, stating their agreement upon all of the following:
   a. a change in the Work;
   b. the amount of the adjustment in the Contract Sum, if any; and
   c. the amount of the adjustment in the Contract Time, if any.

16. Code Inspector: A local or state agency responsible for the enforcement of applicable codes and regulations.

17. Concealed: Work not exposed to view in the finished Work, including within or behind various construction elements.

18. Construction Change Directive ("CCD"): A written order prepared and signed by Owner, directing a change in the Work and stating a proposed basis for adjustment, if any, in the Contract Sum or Contract Time, or both.

19. Contract Amount: a change order price, line item price, Contract Sum, or other price assigned to a scope of work.

20. Contract Conditions or Conditions of the Contract: Consists of two parts: General Conditions and Supplementary Conditions.
   a. General Conditions are general clauses that are common to the Owner Contracts, including Document 00 7200 (General Conditions).
b. Supplementary Conditions modify or supplement General Conditions to meet specific requirements for Contract Documents, including Document 00 7201 (Supplementary Conditions).


22. Contract Modification: Either:
   a. a written amendment to Contract signed by Contractor and Owner; or
   b. a Change Order; or
   c. a Construction Change Directive; or
   d. a written directive for a minor change in the Work issued by Owner.

23. Contract Sum: The sum stated in the Agreement and, including authorized adjustments, the total amount payable by Owner to Contractor for performance of the Work and the Contract Documents. The Contract Sum is also sometimes referred to as the Contract Price or the Contract Amount.

24. Contract Time: The number or numbers of Days or the dates stated in the Agreement to achieve Substantial Completion of the Work or designated Milestones; and/or to achieve Final Completion of the Work so that it is ready for final payment and is accepted.

25. Contractor: The person or entity identified as such in the Agreement and referred to throughout the Contract Documents as if singular in number and neutral in gender. The term “Contractor” means the Contractor or its authorized representative.

26. Contractor’s Employees: Persons engaged in execution of Work under Contract as direct employees of Contractor, as Subcontractors, or as employees of Subcontractors.

27. Day: One calendar day of 24 hours measured from midnight to the next midnight, unless the word “day” is specifically modified to the contrary.

28. Defective: An adjective which, when modifying the word “Work,” refers to Work that is unsatisfactory or unsuited for the use intended, faulty, or deficient, that does not conform to the Contract Documents, or does not meet the requirements of any inspection, reference standard, test or approval referred to in the Contract Documents (including but not limited to approval of Samples and “or equal” items), or has been damaged prior to final payment (unless responsibility for the protection thereof has been assumed by Owner). Unapproved substitutions are defective. Owner is the judge of whether Work is Defective.

29. Division of State Architect: A division of the State of California providing, design and construction oversight for K–12 schools and community colleges, and developing and maintaining accessibility standards and codes utilized in public and private buildings throughout the State of California.

30. Drawings: The graphic and pictorial portions of Contract Documents, wherever located and whenever issued, showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules, and diagrams.


32. Final Acceptance or Final Completion: Owner’s acceptance of the Work as satisfactorily completed in accordance with Contract Documents. Requirements for Final Acceptance/Final Completion include, but are not limited to:
   a. Final cleaning is completed.
   b. All systems having been tested and accepted as having met requirements of Contract Documents.
   c. All required instructions and training sessions having been given by Contractor.
   d. All Project Record Documents having been submitted by Contractor, reviewed by Owner, and accepted by Owner.
   e. All punch list Work, as directed by Owner, having been completed by Contractor.
f. Generally all Work, except Contractor maintenance after Final Acceptance/Final Completion, having been completed to satisfaction of Owner.

33. Force Account: Work directed to be performed without prior agreement as to lump sum or unit price cost thereof, and which is to be billed at cost for labor, materials, equipment, taxes, and other costs, plus a specified percentage for overhead and profit.

34. Exposed: Work exposed to view in the finished Work, including behind louvers, grilles, registers and various other construction elements.

35. Furnish: Supply only, do not install.

36. Indicated: Shown or noted on the Drawings.

37. Install: Install or apply only, do not furnish.

38. Latent: Not apparent by reasonable inspection, including but not limited to, the inspections and research required as a condition to bidding under Document 00 7200 (General Conditions).

39. Law: Unless otherwise limited, all applicable laws including without limitation all federal, state, and local laws, statutes, standards, rules, regulations, ordinances, and judicial and administrative decisions.

40. Material: This word shall be construed to embrace machinery, manufactured articles, materials of construction (fabricated or otherwise), and any other classes of material to be furnished in connection with Contract, except where a more limited meaning is indicated by context.

41. Milestone: A principal event specified in Contract Documents relating to an intermediate completion date or time prior to Substantial Completion of all Work.

42. Modification: Same as Contract Modification.

43. Not in Contract or "NIC": Work that is outside the scope of Work to be performed by Contractor under Contract Documents.

44. Notice of Completion: Shall have the meaning provided in California Civil Code §3093, and any successor statute.

45. Off Site: Outside geographical location of the Project.

46. Owner: Owner is defined in Document 00 5200 (Agreement).

47. Owner-Furnished, Contractor Installed: Items furnished by Owner at its cost for installation by Contractor at its cost under Contract Documents.

48. Owner’s Representative(s): See Document 00 5200 (Agreement).

49. Partial Utilization: Use by Owner of a substantially completed part of the Work for the purpose for which it is intended (or a related purpose) prior to Substantial Completion of all of the Work.

50. PCBs: Polychlorinated byphenyls.

51. Phase: A specified portion of the Work (if any) specifically identified as a Phase in Document 00 5200 (Agreement) or Document 01 1100 (Summary).

52. Product Data: That information (brochures, catalog sheets, manufacturer’s cut sheets, etc.) supplied by vendors having technical and commercial characteristics of the supplied equipment or materials and accompanying commercial terms such as warranties, instructions, and manuals.

53. Progress Report: A periodic report submitted by Contractor to Owner with progress payment invoices accompanying progress schedule. See Document 00 7200 (General Conditions).

54. Project: Total construction of which Work performed under Contract Documents may be whole or part.

55. Project Manager: If used elsewhere in the Contract Documents, “Project Manager” shall mean a person representing the Owner in the administration of the Contract Documents. Project Manager may be an employee of or an independent consultant to Owner. When
Merritt College Science Building Site Paving

Project Manager is referred to within the Contract Documents and no Project Manager has in fact been designated, then the matter shall be referred to Owner. The term Project Manager shall be construed to include employees of Project Manager and/or employees that Project Manager supervises. When the designated Project Manager is an employee of Owner, his or her authorized representatives on the Project will be included under the term Project Manager. If Project Manager is an employee of Owner Project Manager is the beneficiary of all Contractor obligations to Owner, including without limitation, all releases and indemnities.


57. Project Record Documents: All Project deliverables required under the Contract Documents, including without limitation, as built drawings; Installation, Operation, and Maintenance Manuals; and Machine Inventory Sheets.

58. Provide: Furnish and install.

59. Request for Information ("RFI"): A document prepared by Contractor requesting information regarding the Project or Contract Documents. The RFI system is also a means for Owner to submit Contract Document clarifications or supplements to Contractor.

60. Request for Proposals ("RFP"): A document issued by Owner to Contractor whereby Owner may initiate changes in the Work or Contract Time as provided in Contract Documents.


62. RFI-Reply: A document consisting of supplementary details, instructions, or information issued by Owner that clarifies or supplements Contract Documents, and with which Contractor shall comply. RFI- Replies do not constitute changes in Contract Sum or Contract Time except as otherwise agreed in writing by Owner. RFI- Replies will be issued through the RFI administrative system.

63. Samples: Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and which establish the standards by which such portion of the Work will be judged.

64. Shop Drawings: All drawings, diagrams, illustrations, schedules, and other data or information which are specifically prepared or assembled by or for Contractor and submitted by Contractor to illustrate some portion of the Work.

65. Shown: As indicated on Drawings.

66. Site: The particular geographical location of Work performed pursuant to the Contract Documents.


68. Specified: As written in Specifications.

69. Subcontractor: A person or entity that has a direct contract with Contractor to perform a portion of the Work at the Site. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and neutral in gender and means a Subcontractor or an authorized representative of the Subcontractor. The term “Subcontractor” does not include a separate contractor or subcontractors of a separate contractor.

70. Substantial Completion: The Work (or a specified part thereof) has progressed to the point where, in the opinion of Owner as evidenced by a notice or certificate of Substantial Completion, the Work is sufficiently complete, in accordance with Contract Documents, so that the Work (or specified part) can be utilized for the purposes for which it is intended, and unperformed or incomplete work elements are minor in nature; or if no such certificate is issued, when the Work (or specified part) is complete and ready for final payment as
evidenced by written recommendation of Owner for final payment. The terms “Substantially Complete” and “Substantially Completed” as applied to all or part of the Work refer to Substantial Completion thereof.

71. Supplemental Instruction: A written directive from Owner to Contractor ordering alterations or Modifications that do not result in change in Contract Sum or Contract Time, and do not substantially change Drawings or Specifications.

72. Testing and special inspection agency: An independent entity engaged to inspect and/or test the workmanship, materials, or manner of construction of buildings or portions of buildings, to determine if such construction complies with the Contract Documents and applicable codes.

73. Underground Facilities: All pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels or other such facilities or attachments, and any encasements containing such facilities that have been installed underground to furnish any of the following services or materials: Electricity, gases, chemicals, steam, liquid petroleum products, telephone or other communications, cable television, sewage and drainage removal, traffic or other control systems, or water.

74. Unit Price Work: Shall be the portions of the Work for which a unit price is provided in Document 00 5200 (Agreement) or Section 01 1100 (Summary).

75. Work: The entire completed construction, or the various separately identifiable parts thereof, required to be furnished under the Contract Documents within the Contract Time. Work includes and is the result of performing or furnishing labor and furnishing and incorporating materials and equipment into the construction, and performing or furnishing services and furnishing documents, all as required by the Contract Documents including everything shown in the Drawings and set forth in the Specifications. Wherever the word “work” is used, rather than the word “Work,” it shall be understood to have its ordinary and customary meaning.

B. Other Defined Terms

The following terms are not necessarily identified with initial caps; however they shall have the meaning set forth below:

1. Wherever words “as directed,” “as required,” “as permitted,” or words of like effect are used, it shall be understood that direction, requirements, or permission of Owner is intended. Words “sufficient,” “necessary,” “proper,” and the like shall mean sufficient, necessary, or proper in judgment of Owner. Words “approved,” “acceptable,” “satisfactory,” “favorably reviewed,” or words of like import, shall mean approved by, or acceptable to, or satisfactory to, or favorably reviewed by Owner.

2. Wherever the word “may” or “ought” is used, the action to which it refers is discretionary. Wherever the word “shall” or “will” is used, the action to which it refers is mandatory.

PART 2 - PRODUCTS – NOT USED

PART 3 - EXECUTION – NOT USED

END OF SECTION
MERRITT COLLEGE SCIENCE BUILDING SITE PAVING

SECTION 01 50 00

TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Specifications for general requirements for furnishing, installing, operating, and removing temporary project facilities and controls as required to perform and complete the Work.

1.02 REFERENCES

A. American National Standards Institute (ANSI)
   ANSI S1.4 Specification for Sound Level Meters

B. State of California, Department of Transportation (Caltrans), Standard Specific Section 12 Construction Area Traffic Controls Devices
   Section 82 Markers and Delineators

C. State of California, Department of Transportation (Caltrans), Traffic Manual Chapter 5, Manual of Traffic Controls for Construction and Maintenance Work

D. State of California (Caltrans), Standard Plans

1.03 TRAFFIC PLAN AND CONTROLS

A. Traffic Control Plan

   1. A traffic control plan and schedule will be submitted to the Engineer at the preconstruction conference. This plan will explain how the Contractor will control the traffic during the life of the project. In this plan Contractor will identify how and when construction will take place with minimum impact to campus access. The traffic control plan shall include explanatory narrative as required to complete the plan.

B. Permits: As applicable, apply for and obtain all permits from jurisdictional authorities as required to perform work, including hauling permits. Two copies of issued permits shall be furnished to the Engineer for record purposes.
C. Temporary Closing to Traffic: Prior to temporary closing the breezeway, or other access, or to changing traffic patterns from those indicated on the Contract Drawings, obtain approval from appropriate jurisdictional authority, and comply with imposed conditions, at least two weeks before such closures or changes are made. Deviations will be for an emergency condition affecting life and property only, and the Contractor shall immediately notify the Engineer and the appropriate jurisdictional authority of any such emergency changes. Copies of all approvals shall be furnished to the Engineer.

D. Temporary Walkways: In areas where removal of existing sidewalks is necessary, access to adjacent businesses, entrances, and properties shall be maintained by temporary walkways having a width of not less than four feet and meeting ADA requirements.

E. Temporary Paving and Patching: Construct, maintain, and remove temporary pavement and patching required to safely and expeditiously handle vehicle and pedestrian traffic, within or adjacent to the jobsite. Temporary pavement and patching composition shall conform to the specifications of the local jurisdictional authority. Any construction, maintenance, or removal required by the Contractor’s operations off site shall conform to the requirements specified herein.

1.04 HAUL ROUTES

A. Make arrangements with the various jurisdictional authorities for access to streets and roads for transporting materials, equipment, excess earth and soil materials, and debris to and from the site of the Work.

B. All such access or haul routes shall be indicated on the traffic control plan and shall be submitted to the jurisdictional authorities for approval as specified in Article 1.03 herein.

C. These haul routes shall be maintained and cleaned of all dirt and debris resulting from the Contractor’s use of these streets and roads. Any damage to streets and roads resulting from the Contractor’s use shall be properly repaired and, at completion of this Contract, restored to their original condition or better.

1.05 CONSTRUCTION OPERATIONS UNDER TRAFFIC

A. Definitions: Construction equipment is defined for the purposes of this Article as all types of equipment, vehicles, and tools used in connection with construction work. The term workers includes every person or firm performing work in or adjacent to public streets.

B. Construction Equipment: When in traffic lanes, all vehicles and equipment shall be operated at normal traffic speeds. If this is not practicable, a slow moving vehicle emblem shall be displayed in accordance with the Motor Vehicle Code.
Construction equipment shall not be parked in any lane intended for use by normal traffic. Equipment parked or stored at the work site shall be behind a guard rail, barrier, curb, or other protective device.

C. One-Way Traffic: No construction equipment shall be operated in traffic lanes, except in the designated direction of travel for respective lanes.

D. Construction Operations

1. Schedule surface operations so that work is not carried on intermittently throughout the area. Excavation or construction activities shall be scheduled and pursued to completion as required to permit opening of street areas to traffic without unnecessary delays.

2. No construction work involving occupancy of traffic lanes shall be performed during adverse weather conditions or adverse road conditions, and traffic shall be properly safeguarded by use of flashers and lights in addition to the signs and other markings specified herein. During these periods, no construction deliveries shall take place over a travel lane or immediately adjacent thereto.

3. When traffic conditions dictate, the Contractor shall modify its work operation for such length of time as required to alleviate the hazardous traffic conditions.

E. Equipment Travel

1. No construction equipment other than that designated and used for general highway transportation shall be moved on streets during hours of darkness or periods of adverse weather conditions which reduce normal visibility.

2. Any construction equipment or material required for construction operations which exceeds the maximum vehicle dimensions specified in the Motor Vehicle Code, shall be moved only in accordance with established State and local regulations. No such oversize load shall be moved over public streets without first obtaining approval of the appropriate jurisdictional authority.

F. Crossing Traffic Lanes: Construction equipment entering the traveled way from the median shall be safeguarded by a CMS and with flaggers as required. Where traffic speeds are high, slow-moving construction equipment entering the traveled way shall be protected by a “rolling barricade” supplied by the California Highway Patrol (CHP). This operation shall be performed at off-peak hours and requires coordination between the Contractor and the CHP, with the cost being borne by the Contractor.

G. Flaggers: When flagging is required, provide qualified flaggers and flagging in accordance with the requirements of the Caltrans Traffic Manual, Chapter 5, Manual of Traffic Controls, Section 5.07.
H. Removal of Traffic Control Devices: All temporary signs, barricades, barrier curbs, crash cushions, drums, and cones used to safeguard traffic in connection with construction work shall be removed at the close of the work day, unless the state of the work is such that warning devices are still needed and are adapted for night closing.

I. Storage: No material or traffic control devices shall be stored on any lane intended for traffic use.

1.06 POLLUTION ABATEMENT - GENERAL REQUIREMENTS

A. Comply with the General Conditions, Article GC7.10. Conduct construction operations in a manner which will minimize pollution of the environment surrounding the area of the Work by all practicable means and methods. Apply specific controls as specified in the Contract Specifications and as follows:

1. Waste Materials: No waste or eroded materials shall be allowed to enter natural or man-made water or sewage removal systems. Eroded materials from excavations, borrow areas, or stockpiled fill shall be contained within the Work area. The Contractor shall develop methods for control of erosion as specified in Article 1.08 herein.

2. Burning: No burning of waste materials or debris will be permitted.

3. Burying: No burying of waste materials and debris will be permitted within the limits of the District’s property.

B. Provide for and maintain the flow of all sewers, drains, house or inlet connections, and all water courses which may be encountered during progress of the Work. Do not allow the contents of any sewer, drain or house or inlet connection to flow into trenches or outside of the District’s property unless in an approved area consistent with State and Federal regulations. Immediately remove from proximity of the work all offensive matter, using such precautions as are required by jurisdictional authorities.

1.07 DUST CONTROL

A. Provide dust control at all times, including holidays and weekends, as required to abate dust nuisance on and about the site which is a result of construction activities. Dust control shall be by means of sprinklered water or by other approved methods, except that chemicals, oil, or similar palliative shall not be used.

B. Quantities and equipment for dust control shall be sufficient to effectively prevent dust nuisance on and about the site; and when weather conditions warrant, sprinklering equipment shall be on hand at all times for immediate availability.
C. The Engineer shall have authority to order dust control work whenever conditions warrant, and there shall be no additional cost to the District therefor. Dust control shall be effectively maintained whether or not the Engineer orders such work.

D. Complaints from the public shall be reported to the District and shall be acted on immediately.

E. Where earthwork operations are in progress, keep exposed earth surfaces dampened continuously. Also, keep dirt accessways and roads dampened continuously.

F. If portions of the site are temporarily inactive or abandoned for whatever reason, provide dust control and abatement continuously during such periods of inactivity.

G. Where dust resulting from construction activities has collected on public sidewalks and streets, hose down such sidewalks and streets to abate flying dust particles. Clean all sidewalks and streets from accumulated dirt and dust.

1.08 MUD CONTROL

A. Take proper measures to prevent tracking of mud onto public streets, drives, and sidewalks. Such measures shall include, but are not limited to, covering muddy areas on the site with clean, dry sand.

B. All egress from the site shall be maintained in a dry condition, and any mud tracked onto streets, sidewalks, or drives shall be immediately removed, and the affected area shall be cleaned. The Engineer may order such work at any time the conditions warrant.

C. Where trucks will leave a muddy site and enter paved public streets, the Contractor shall maintain a suitable truck wheel-washing facility and crew. All trucks, or other vehicles leaving the site, shall be cleaned of mud and dirt, including mud and dirt clinging to exterior body surfaces of vehicles.

D. All trucks coming to the site or leaving the site with materials or loose debris shall be loaded in a manner which will prevent dropping of materials or debris on streets. Spillage resulting from hauling operations along or across any public traveled way shall be removed immediately.

1.09 NOISE CONTROL

A. Requirements: Minimize noise caused by construction operations, and provide working machinery and equipment fitted with efficient noise suppression devices. Employ other noise abatement measures as necessary for protection of employees and the public. In addition, restrict working hours and schedule operations in a manner which will minimize, to the greatest extent feasible, disturbance to residents and/or students in the vicinity of the Work.
B. Definitions

1. Daytime refers to the period from 7:00 a.m. to 7:00 p.m. local time daily except Sundays and legal holidays.

2. Nighttime refers to all other times including all day Sunday and legal holidays.

3. Construction Limits are defined for the purpose of these noise control requirements as the District right-of-way lines, construction easement boundaries, or property lines as indicated on the Contract Drawings.

4. Zones, Special Zones, and Special Construction Sites outside of the Construction Limits shall be as designated by the local authority having jurisdiction. Such specially designated zones shall be treated by the Contractor as if they were within the Construction Limits.

C. Monitoring

1. Promptly inform the District Representative of any complaints received from the public regarding noise. Describe the action proposed and the schedule for implementation, and subsequently inform the District Representative of the results of the action.

2. Monitor noise levels day and night and for each new activity or piece of equipment. Start by measuring three times a day plus once a night for three consecutive days. Monitor noise levels at least once a week thereafter.

D. Measurement Procedure

1. Except where otherwise indicated, perform all noise measurements using the A-weight network and “slow” response of an instrument complying with the criteria for a Type 2 General Purpose sound level meter as described in ANSI S1.4.

2. Measure impulsive or impact noises with an impulse sound level meter complying with the criteria of IEC 179 for impulse sound level meters. As an alternative procedure, a Type 2 General Purpose sound level meter on C-weighting and “fast” response may be used to estimate peak values of impulsive or impact noises. Transient meter indications of 125 dBC “fast” or higher will be considered as indications of impulsive noise levels of 140 dB or greater.

3. Measure noise levels at buildings affected acoustically by the Contractor’s operations at points between three feet and six feet from the building face to minimize the effect of reflections.
4. Measure noise levels at points on the outer boundaries of Construction Limits or Special Construction Sites for noise emanating from within.

5. Where more than one criterion of noise limits are applicable, use the more restrictive requirement for determining compliance.

E. Continuous Construction Noise: Prevent noise from stationary sources, parked mobile sources, or any source or combination of sources producing repetitive or long-term noise lasting more than one hour from exceeding the following limits:

1. Maximum Allowable Continuous Noise Level, dBA:

<table>
<thead>
<tr>
<th>Affected Residential Area</th>
<th>Daytime</th>
<th>Nighttime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single family residence</td>
<td>60</td>
<td>50</td>
</tr>
<tr>
<td>Along an arterial or in multi-family</td>
<td>65</td>
<td>55</td>
</tr>
<tr>
<td>residential areas, including hospitals</td>
<td></td>
<td></td>
</tr>
<tr>
<td>In semi-residential/commercial areas,</td>
<td>70</td>
<td>60</td>
</tr>
<tr>
<td>including hotels</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Affected Commercial Area</th>
<th>At All Times</th>
</tr>
</thead>
<tbody>
<tr>
<td>In semi-residential/commercial areas,</td>
<td>65</td>
</tr>
<tr>
<td>including schools</td>
<td></td>
</tr>
<tr>
<td>In commercial areas with no nighttime</td>
<td>65</td>
</tr>
<tr>
<td>residency</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Affected Industrial Areas</th>
<th>At All Times</th>
</tr>
</thead>
<tbody>
<tr>
<td>All locations</td>
<td>65</td>
</tr>
</tbody>
</table>

F. Intermittent Construction Noise: Prevent noises from non-stationary mobile equipment operated by a driver or from any source of non-scheduled, intermittent, non-repetitive, short-term noises not lasting more than four hours from exceeding the following limits:

1. Maximum Allowable Intermittent Noise Level, dBA:

<table>
<thead>
<tr>
<th>Affected Residential Area</th>
<th>Daytime</th>
<th>Nighttime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single family residence areas</td>
<td>75</td>
<td>60</td>
</tr>
<tr>
<td>Along an arterial or in multi-family</td>
<td>75</td>
<td>65</td>
</tr>
<tr>
<td>residential areas, including hospitals</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
In semi-residential/commercial areas, including hotels 75 70

Affected Commercial Area At All Times

In semi-residential/commercial areas, including schools 80

In commercial areas with no nighttime residency 85

Affected Industrial Area At All Times

All locations 90

1.10 EXISTING UTILITIES / FACILITIES

A. It is not the intent of the plans to show the exact location of existing or relocated utilities, and the Engineer and Owner assume no responsibility therefor. The Contractor is advised that underground utilities are not shown on the plan drawings. The Contractor shall be responsible for verifying actual location and depth of existing utilities in the field. Where excavation is contemplated, the Contractor shall notify Underground Service Alert at (800) 642-2444 or 811, prior to such excavation.

B. Where excavations are performed in the vicinity of underground utility mains and/or services the Contractor shall, as necessary, perform initial exploratory excavations to determine their exact depth and location. Payment for exploratory excavation shall be included in the various items of work needed to complete the excavation work. Extreme care shall be exercised to avoid damage, and it will be the Contractor’s sole responsibility to have repairs made to existing facilities at his/her expense in the event of damage.

C. The Contractor is advised of the possible existence of certain underground facilities that may require special precautions to protect the health, safety and welfare of the workmen and of the public. These facilities include, but are not limited to: irrigation lines and peripherals; street lighting electric supply system conductors or conduits; telephone and cable service lines, either directly buried or in duct or conduit and; underground water, gas, and electrical distribution systems.

D. The Contractor shall not be entitled to any right of way delays associated with the relocation or repair of these utilities and other facilities and shall cooperate fully with the owners of these utilities and other facilities for their relocation and repair work.

E. Schedule constraints will be discussed at the preconstruction conference and the Contractor shall incorporate such adjustments in their contract scheduling as necessary.
F. All existing facilities in conflict with the proposed improvements shall be relocated by the Contractor.

1.1 TEMPORARY FACILITIES AND UTILITIES

A. Contractor’s Offices

1. If applicable, Contractor shall maintain on site a suitable office completely furnished to house the administrative staff of the Contractor to the satisfaction of the Owner.

2. The facility shall have sufficient telephone and data cabling to maintain telephone service, fax service and computer connections to run all software and operations required to satisfactorily communicate with the project team.

3. Contractor shall submit to the Owner the intended office and equipment configuration for approval prior to placement and installation.

B. Electric Power and Lighting

1. The Contractor will furnish and pay for power during the course of the work to the extent power is available on the Site. The Contractor shall be responsible for providing and maintaining temporary facilities required to deliver that power service from its existing location on the Site to points of use.

2. Contractor shall verify characteristics of power available on the Site. Contractor shall take all actions required to make modifications where power of higher voltage or different phases of current are required. Contractor shall be fully responsible for providing that service and shall pay all costs required therefore.

3. The Contractor shall furnish, wire, install, and maintain temporary electrical lights wherever it is necessary to provide illumination for the proper performance and/or observation of the Work. If portable or temporary lights are used, all light must be located so as not to direct light into neighboring properties.

C. Water

1. The Contractor will furnish and pay for water during the course of the work to the extent water is then available on the Site. The Contractor shall be responsible for providing and maintaining temporary facilities required to deliver such utility service from its existing location on the Site to points of use.
2. Contractor shall use backflow preventers on water lines at point of connection to outside water supply. Backflow preventers shall comply with requirements of Uniform Plumbing Code.

3. Contractor shall make potable drinking water available for human consumption. Drinking water shall be potable, and drinking water facilities shall be clean and sanitary.

D. Sanitary Facilities

1. Provide adequate temporary toilet conveniences, and washing facilities, for use of all employees and persons engaged on or about the Work, including subcontractors and their employees.

2. Locate sanitary facilities where approved by Owner, Inspector and/or authorities having jurisdiction and maintain in a clean and sanitary condition during the course of the Work. Keep such facilities adequately supplied with toilet paper, paper toweling, paper cups, and related supplies as required.

3. Use of toilet facilities in the Work under construction shall not be permitted except by consent of the Inspector and the Owner.

4. At completion of the Work, sanitary facilities shall be properly disinfected and all evidence of same removed from the site.

E. Telephone Service

1. Contractor shall arrange with local telephone service company for telephone service for the performance of the Work. Contractor shall, at a minimum, provide in its field office one line for telephone, computer and one line for fax machine.

2. Contractor shall pay the costs for telephone and fax lines installation, maintenance, service, and removal.

F. Fire Protection

1. Contractor shall provide and maintain fire extinguishers and other equipment for fire protection. Such equipment shall be designated for use for fire protection only and shall comply with all requirements of the California Fire, State Fire Marshall and/or its designee.

2. Where on-site welding and burning of steel is unavoidable, Contractor shall provide protection for adjacent surfaces and fire watches until 30 minutes past the conclusion of the event.

G. Trash Removal
1. Contractor shall provide and maintain sufficient debris boxes and shall segregate debris as required elsewhere in this document for recycling as not to become a public nuisance. Capacity of boxes and bins shall be sufficient as to accept all trash created until removed from site.

1.12 ENCLOSED STORAGE AND SHOPS

A. Provide all temporary storage and shop rooms that may be required at the site for safe and proper storage of tools, materials, and equipment. Construct such rooms only in locations indicated or as approved by the District Representative, and so as not to interfere with the proper installation and completion of other work.

B. Remove such rooms within three days of receipt of notices from the District that removal is necessary, and incur all expenses for such removal.

C. Storage of gasoline or similar fuels shall conform with NFPA regulations and local fire department regulations and shall be confined within definite boundaries apart from buildings as approved by the District Representative and jurisdictional fire marshall.

1.13 PROTECTIVE BARRICADES AND SAFETY PRECAUTIONS

A. Construct and maintain barricades, lights, shoring, warning signs, and flashing lights as required by Federal and State safety ordinances and as required to protect the District’s property from injury or loss and as necessary to protect the public and adjacent properties from harm and damage. Provide walks around obstructions made in a public place for prosecuting the Work. Leave all protection in place and maintain until removal is authorized.

B. Guard and protect all workers, pedestrians, vehicles, structures, fencing, landscaping and the public from excavations, construction equipment, obstructions, and other dangers with adequate railings, guard rails, k-rails, temporary walks, barricades, warning signs, directional signs, overhead protection, planking, decking, danger lights, and other suitable safeguards.

1.14 TEMPORARY FENCING

A. Furnish, construct, maintain, and later remove temporary fencing around the project site perimeter as indicated.

B. Except as otherwise specified herein, temporary fencing shall conform to the Standard Drawings and Specifications Standards for permanent fences.

C. Used materials may be employed for temporary fencing, provided such used materials are good, sound, and are suitable for the purpose intended.

D. Fencing materials may be commercial quality, provided the dimensions and sizes of said materials are equal to, or greater than, the dimensions and sizes indicated on the
Standard Drawings or specified in the Contract Specifications. Additional fencing options include the following:

1. Posts may be either metal or wood.
2. Galvanizing and painting of steel items will not be required.
3. Treating wood with wood preservatives will not be required.
4. Concrete footings for metal posts will not be required, except where portable footings are required for temporary anchorage of posts.

E. Temporary fencing which is damaged from any cause during the progress of the Work shall be repaired or replaced by the Contractor at no additional cost to the District.

F. When no longer required for the Work, temporary fencing shall be removed. Removed fencing and related materials shall become the property of the Contractor and shall be removed from the site of the Work, except as otherwise provided herein.

G. Holes and other damages caused by the removal of temporary fences shall be properly filled to match adjacent surfaces.

1.15 SECURITY

A. Provide for security of the Work and the site until final inspection and acceptance of the Work. Storage areas shall be suitably fenced and lighted and routinely patrolled by security guards.

B. The District assumes no responsibility for protection of structures and finished work or for loss of materials and equipment from the time that Contract operations have commenced until final acceptance of the Work.

C. If watchman service is deemed necessary by the Contractor, such protection shall be provided by the Contractor, and all costs therefor shall be paid for by the Contractor.

D. Damaged, lost, or stolen materials and equipment, whether or not stored or already installed, shall be replaced by the Contractor with new specified materials and equipment, including reinstallation expenses where applicable, at no additional cost to the District.

1.17 PUBLICITY RELEASES

A. Contractor shall not release any information, story, photograph, plan, or drawing relating information about the Project to anyone, including press and other public communications medium, including, without limitation, on website(s).
1.18  REMOVAL OF TEMPORARY FACILITIES AND CONTROLS

A. Remove temporary utilities, equipment, facilities, and materials prior to final inspection.

B. Remove underground installations to a minimum depth of two feet.

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

END OF SECTION
PART 1 — GENERAL

1.01 BACKGROUND

A. Discharge of pollutants (any substance, material, or waste other than uncontaminated storm water) from this project into the storm drain system is strictly prohibited by the California Regional Water Quality Control Board’s (RWQCB) Water Quality Control Plan (Basin Plan).

1.02 GENERAL CONTRACTOR SCOPE

A. Provide all material, labor, equipment, for installation, implementation, and maintenance of all surface-water pollution prevention measures throughout the full extent of the project.

B. This work includes the following:

1. Furnishing, placing, and installing effective measures for preventing erosion and runoff of soil, silts, gravel, hazardous chemicals or other materials prohibited by the City of Oakland and San Francisco Bay Region Water Quality Control Board from entering the storm water drainage system.

2. Management of on-site construction materials and non-storm water in such a manner as to prevent said materials from contacting storm water or wash water and running off into the storm drain system.

3. Complying with applicable standards and regulations per Paragraph 1.03.

4. If part of the project, include post-construction storm water pollution prevention structures in the storm water pollution prevention plan, Contractor shall use construction drawings as the reference for post-construction BMPs.

C. In this section, the term "storm drain system" shall include permanent storm water treatment areas and devices, storm water conduits, storm drain inlets and other storm drain structures, street gutters, channels, watercourses, creeks, lakes, and the San Francisco Bay.

D. Contractor shall have storm drain pollution prevention measures in place and follow this specification during the rainy season (October 1 through May 1) and anytime
rain is predicted in the San Francisco Bay Area. It is the responsibility of the Contractor to be prepared for a rain event in the non-rainy season, and to be aware of weather predictions. The Owner is not responsible for informing the contractor of rain predictions.

E. Contractor shall not allow any non-storm water to enter the storm drain system. Non-storm water includes domestic supply water used to wash streets, painting and drywall equipment, tools, equipment, or vehicles.

1.03 REGULATIONS AND STANDARDS

A. Contractor shall comply with the following applicable regulations:


3. City of Oakland Stormwater Management and Discharge Ordinance and Construction Site Runoff Pollution Prevention Procedures

B. Contractor shall comply with the following standards and guidelines on storm drain pollution prevention:

1. “Manual of Standards for Erosion and Sediment Control”, Association of Bay Area Governments
Order From: ABAG
P.O. Box 2050
Oakland, CA 94604
(510) 464-7900


1.04 ENVIRONMENTAL ENFORCEMENT

The RWQCB and the local governing agency have the authority to enforce, through codified regulations, any portions of this Section that if not implemented may violate applicable regulations. Agency enforcement may include but is not limited to: citations, orders to abate, bills for cleanup costs and administration, civil suits, and/or criminal charges.

PART 2.0 — MATERIALS

2.01 GENERAL

A. Provide materials as required for execution of the work.

PART 3.0 — EXECUTION

3.01 AREAS OF EXISTING VEGETATION

A. Contractor shall protect existing vegetation that is to be preserved on the site from mechanical or other injury during the project. Areas of existing vegetation shall be clearly delineated on the site map.

3.02 DUST-SUPPRESSION-WATER MANAGEMENT

A. Contractor shall use best available dust suppression equipment and methods to control dust so that the dust does not cause discomfort or nuisance to occupants of the project site neighboring property. Contractor shall control dust suppression water so that it is effective in controlling dust, but does not enter the storm drain system.

3.03 FIRE HYDRANT PROTECTION

A. Contractor shall protect fire hydrants on and near the project site from damage. If the project personnel cause damage that results in a release of fire suppression water, the Contractor shall implement the procedures described in subpart 3.20.

3.04 DE-WATERING AND SEDIMENT MANAGEMENT

A. If stormwater or groundwater in site excavations or drilled holes, (e.g., trenches, pits, pier holes, footings), needs to be removed, it shall be made clean by filtering, settling, or other method capable of removing solids and suspended particles from this water prior to discharge to the storm drain system. The Contractor shall ensure that this discharge complies with all applicable provisions of the Basin Plan (see Paragraph 1.01 of this Section).

B. If excavation water is domestic supply water, or the water is contaminated with a hazardous substance, then the contractor shall dispose of according to guidance from the Owner. For disposal authorization, the contractor shall contact the Owner to determine the discharge requirement. The Owner will work with the Office of
Environment, Health & Safety (EH&S) who will establish the discharge requirements.

If the Contractor suspects the presence of contaminated groundwater, or domestic supply water, the Contractor shall immediately notify Owner representative or local Fire Department. The Contractor shall not attempt to pump out or treat any material suspected of containing a hazardous material or petroleum product.

3.05 ON-SITE SOILS MOVEMENT AND STORAGE

A. The Contractor shall implement proven methods to prevent erosion from soils stored on site.

3.06 SITE INGRESS AND EGRESS MANAGEMENT MUD TRACKING PREVENTION

A. The Contractor shall ensure that mud is not tracked from the site onto public or campus roads. Contractor shall select the most appropriate BMP to accomplish this requirement.

3.07 STORM DRAIN INLET PROTECTION

A. The Contractor shall protect storm drain inlets from receiving sediment, hazardous chemicals, gasoline, diesel, oil or grease, trash, debris or other pollutants from the construction site.

3.08 CONSTRUCTION MATERIALS STORAGE

A. Storage and exposure of raw materials, byproducts, finished products, and hazardous materials containers shall be controlled as described below:

1. All construction materials shall be stored at least ten feet away from storm drain system inlets, catch basins, and curb returns.

2. The Contractor shall not allow any material to enter the storm drain system.

3. At the end of each working day, the Contractor shall collect and prepare for disposal all scrap, debris, and waste material generated by project activities.

4. During wet weather or when rain is in the forecast, the Contractor shall store materials, (that can flow or be transported by storm water), inside a building or under a secured waterproof covering to prevent accidental release to the storm drain system. Examples: use sealed debris bins in rainy weather; store fuel containers out of the weather; cover soil, sand, or debris piles with tarps.

5. The Contractor is responsible for ensuring that storage and disposal of all hazardous materials brought on site for this project (e.g., coatings, thinners, solvents, and fuels), and all hazardous waste generated during project
activities (e.g., waste oil) is in compliance with all applicable federal, state, and local standards and requirements.

6. Liquid materials shall be stored in secondary containment. The containment shall be designed to hold at least 110% of the volume of the largest stored container.

3.09 CONCRETE, MORTAR, SAWCUTTING

A. For concrete or mortar application to be performed on site (if any), the Contractor shall comply with the following provisions:

1. Washing sweepings of exposed aggregate concrete into the street or storm drain system [as defined in paragraph 1.02 (C)] is prohibited. Collect and return sweepings to aggregate base stockpile, or dispose of as construction debris.

2. Do not wash out concrete trucks and equipment into the storm drain system. Whenever possible, perform washout of concrete trucks (if any) and equipment off-site where discharge is controlled.

3. If on-site washout of trucks and equipment is necessary, then the Contractor shall comply with the following procedures:

   a. Locate washout area at least 50 feet from storm drains, open ditches or water bodies, preferably in a dirt area.

   b. Do not allow storm water run-off from the washout area.

   c. Construct a temporary pit or bermed area large enough to contain the wash-water and surplus concrete waste.

   d. Wash out concrete waste into the temporary pit where the concrete can set, be broken up, and then disposed of as construction debris. If the volume of water is greater than what will allow concrete to set, allow the wash water to concentrate and/or evaporate, if possible. Otherwise, allow water to settle before filtering it, and then pump to the sanitary sewer (as long as the pH is less than hazardous waste limit of 12.5).

3. Wash-water from tools used for mixing mortar, in sheet rock work, plaster, drywall, mortar work or similar work shall be settled before disposal to the sanitary sewer. Solids shall be disposed to the debris bin. This wash-water is prohibited from stormwater discharge.

5. Concrete sawing or drill cutting lubricating/cooling water or shall be collected using a wet-vacuum. The lubricating/cooling water shall be settled before disposal to the sanitary sewer. Solids shall be disposed to the debris bin. This lubricant/cooling water is prohibited from stormwater discharge.

3.10 SANITARY SEWER DISCHARGE POINT IDENTIFICATION
A. If the Contractor will be disposing of water from a settling operation, or any other water approved by the local Sanitation Agency for disposal, the Contractor will verify with that agency the manhole used for disposal is a sanitary sewer and not a storm drain. (Note: Do not assume that a manhole is a sanitary sewer, even if the words “sanitary sewer” are embossed on it. Sometimes utility maps and manhole cover designations are incorrect.)

3.11 FUELING, WASHING AND EQUIPMENT CLEANING

A. The Contractor shall not perform vehicle cleaning on site, unless a properly designed wash area prevents run-off from entering the storm drain system. Domestic water supply is prohibited from entering the storm drain because it contains chloramines. It can go to the sanitary sewer if the sediment is allowed to settle before discharge and it meets the standards of the local sanitary sewer agency.

B. If fueling must occur on-site, use designated areas away from drainage. Locate on-site fuel storage tanks within a bermed area designed to hold the tank volume. The area should be covered so that rain water will not get into the bermed area. The bermed area shall be lined so that leaks, spills or drips will not contaminate the soil. Use secondary containment while fueling or changing fluids to catch drips or small spills.

C. The Contractor shall dispose of wash water from the cleaning of non-hazardous water-based coating equipment (such as latex paints or drywall compounds) and tools to the sanitary sewer. Unused latex paint, oil based paint, used or new paint thinner and solvents are prohibited from disposal to the sanitary sewer and the storm drain system. The Contractor shall dispose of these wastes in accordance with federal, state, and local hazardous waste and solid waste regulations.

3.12 BUILDING WASH OR HYDRO-BLASTING WATER MANAGEMENT

A. Construct a containment system to eliminate wash-water from draining to the storm drain or the sanitary sewer system.

B. Pour, pump or drain the wash-water into a containment tank.

C. Use a filter system (e.g., cartridge filters) to remove suspended paint solids. Use settling methods to minimize the amount of solids entering the filter system. This will prevent filter saturation.

D. Sample the filtered water before it is discharge to the sanitary sewer. Have the sample analyzed for the 13 priority pollutant metals (antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, zinc) and any other chemicals of concern that could be present to determine whether or not the water is suitable for sanitary sewer discharge. Send a copy of the analytical results to the local Sanitation Agency for disposal method determination.

3.13 INSPECTION, MONITORING AND MAINTANCE OF POLLUTION CONTROL SYSTEMS

Storm Water Pollution Prevention
Merritt College Science Building Site Paving
A. Inspect the site before, after, storm events, or during a 24-hour storm event. Inspections shall be done during the storm water observation period (October 1 through April 1) to ensure that storm drain pollution prevention controls are in place.

3.14 SPILL PREVENTION AND CONTROL

The Contractor shall take precautions to prevent accidental spills of pollutants, including hazardous materials brought onsite by the Contractor. However, in the event of a spill, the Contractor shall be held responsible for the following:

A. Immediately contain and prevent leaks and spills of prohibited pollutants from entering the storm drain system. Clean up the spill and label the container. Store the container in a safe place and contact the Owner to arrange disposal of the waste. The Contractor shall keep a spill kit on site at all times for this purpose.

B. Contractor shall comply with all federal, state, and local hazardous waste requirements and ensure that no spilled materials are washed into the stormwater or non-stormwater systems.

C. Report any hazardous or unknown material spills immediately to the Fire Department. After contacting the Fire Department contact the Owner.

The Contractor is responsible for ensuring that its employees and subcontractors (if any) working on site are aware of the location of a phone nearest the project site.

3.15 HOUSE KEEPING PRACTICE

The Contractor shall implement the following applicable good housekeeping practices:

- Store materials that have the potential to be transported to the storm drain system by storm runoff or spillage away from areas of heavy traffic and under cover in a contained area or in sealed waterproof containers.
- Use tarps on the ground to collect fallen debris or splatters that could contribute to storm water pollution.
- Secure opened bags of powdered materials (if any) that could contribute to storm water pollution and visible dust emissions.
- Pick up litter, construction debris, and other waste generated by project activities daily from adjacent areas, including the sidewalk area, gutter, street pavement, and storm drains impacted by the project. All wastes shall be stored in covered containers, disposed of, or recycled immediately.
- Clean sidewalks, driveways, or other paved areas within the construction site to eliminate or prevent mud-tracking conditions. Vacuuming, power sweeping, or manual sweeping is acceptable. Dispose of sweepings in a place that will not pollute the storm drain system. Domestic water may be used but it shall be contained and directed to landscapes or the sanitary sewer. The discharge of wash-water to the storm drain system is prohibited.
• Inspect vehicles and equipment arriving on-site for leaking fluids, and promptly repair leaking vehicles and equipment. Use drip pans to catch leaks until repairs are made.
• Avoid spills by handling materials carefully. Keep a stockpile of appropriate spill clean-up materials, such as rags or absorbent materials, readily accessible on site. Clean up all spills of materials brought on site for project activities according to Sub-part 3.19.
• Train employees regularly on good housekeeping practices and procedures. Assign responsibility to specific employees for inspecting good housekeeping, and responding to spills.

END OF SECTION
PART 1 - GENERAL

1.01 SUMMARY

A. Section describes requirements and procedures for:
   1. Project cleaning
   2. Testing of equipment and systems
   3. Substantial Completion
   4. Final Completion
   5. Close Out
   6. Warranties

1.02 SUBSTANTIAL COMPLETION

A. Removal of Temporary Construction Facilities and Project Cleaning.

1. Prior to Substantial Completion inspection: remove temporary materials, equipment, services, and construction; clean all areas affected by the Work; clean and repair damage caused by installation or use of temporary facilities; restore permanent facilities used during construction to specified condition.

B. Equipment and Systems.

1. Prior to Substantial Completion, Contractor shall start up, run for periods prescribed by Owner, operate, adjust and balance all manufactured equipment and Project systems, including but not limited to, mechanical, electrical, safety, fire, and controls.
2. Demonstrate that such equipment and systems conform to contract standards and manufacturer’s guarantees. Where applicable, use testing protocols specified, and if the contract is silent, then consistent with manufacturer’s recommendations and industry standards.

C. Procedure for Substantial Completion

1. When Contractor considers Work or designated portion of the Work as Substantially Complete, submit written notice to Owner, with list of items remaining to be completed or corrected and explanation of why such items do not prevent Owner’s beneficial use and occupancy of the Work for its intended purposes. Within reasonable time, Owner will inspect to determine status of completion.
2. Should Owner determine that Work is not Substantially Complete, Owner will promptly notify Contractor in writing, listing all defects and omissions. Contractor shall remedy deficiencies and send a second written notice of Substantial Completion. Owner will reinspect the Work. If deficiencies previously noted are not corrected on reinspection, then pay the cost of the reinspection.
3. When Owner concurs that Work is Substantially Complete, Owner will issue a written notice or certificate of Substantial Completion, accompanied by Contractor's list of items to be completed or corrected as verified by Owner.
4. Manufactured units, equipment and systems that require startup must have been started up and before a notice or certificate of Substantial Completion will be issued.
5. A punch list examination will be performed upon Substantial Completion. One follow-up review of punch list items for each discipline will be provided. If further Site visits are
required to review punch list items due to incompleteness of the Work by Contractor, Contractor will reimburse Owner for costs associated with these visits.

1.03 **FINAL COMPLETION**

A. **Requirements**

1. Final Completion occurs when Work meets requirements for Owner’s Final Acceptance.

B. **Procedure**

1. When Contractor considers Work is Finally Complete, submit written certification that:
   a. Contractor has inspected Work for compliance with Contract Documents, and all requirements for Final Acceptance have been met.
   b. Except for Contractor maintenance after Final Acceptance, Work has been completed in accordance with Contract Documents and deficiencies listed with Certificate of Substantial Completion have been corrected. Equipment and systems have been tested in the presence of Owner, and are operative.
   c. Project Record Documents are completed and turned over to Owner, and Work is complete and ready for final inspection.

2. In addition to submittals required by Contract Documents, provide submittals required by governing authorities and submit final statement of accounting giving total adjusted Contract Sum, previous payments, and sum remaining due.

3. Should Owner determine that Work is incomplete or Defective, Owner promptly will so notify Contractor, in writing, listing the incomplete or Defective items. Contractor shall promptly remedy the deficiencies and notify the Owner when it is ready for re-inspection.

C. **Final Adjustments of Accounts:**

1. Submit a final statement of accounting to Owner, showing all adjustments to the Contract Sum and complete and execute Document 00 6530 (Agreement and Release of Claims).

2. If so required, Owner shall prepare a final Change Order for submittal to Contractor, showing adjustments to the Contract Sum that were not previously made into a Contract Modification.

D. **Warranties**

1. Execute Contractor’s Submittals and assemble warranty documents, and Installation, Operation, and Maintenance Manuals, executed or supplied by Subcontractors, suppliers, and manufacturers. Provide table of contents and assemble in 8½ inches by 11 inches three-ring binder with durable plastic cover, appropriately separated and organized. Assemble in Specification Section order.

2. Submit material prior to final Application for Payment. For equipment put into use with Owner’s permission during construction, submit within 14 Days after first operation. For items of Work delayed materially beyond Date of Substantial Completion, provide updated Submittal within 14 Days after acceptance, listing date of acceptance as start of warranty period.

3. Warranty Forms: Submit drafts to Owner for approval prior to execution. Forms shall not detract from or confuse requirements or interpretations of Contract Documents. Warranty shall be countersigned by manufacturers. Where specified, warranty shall be countersigned by Subcontractors and installers.

4. Rejection of Warranties: Owner reserves right to reject unsolicited and coincidental product warranties that detract from or confuse requirements or interpretations of Contract Documents.

5. Term of Warranties: For materials, equipment, systems, and workmanship, warranty period shall be one year minimum from date of Final Completion of entire Work except where:
a. Detailed Specifications for certain materials, equipment or systems require longer warranty periods.
b. Materials, equipment or systems are put into beneficial use of Owner prior to Final Completion as agreed to in writing by Owner.

E. Warranty of Title:
1. No material, supplies, or equipment for Work under Contract shall be purchased subject to any chattel mortgage, security agreement, or under a conditional sale or other agreement by which an interest therein or any part thereof is retained by seller or supplier. Contractor warrants good title to all material, supplies, and equipment installed or incorporated in Work and agrees upon completion of all Work to deliver premises, together with improvements and appurtenances constructed or placed thereon by Contractor, to Owner free from any claim, liens, security interest, or charges, and further agrees that neither Contractor nor any person, firm, or corporation furnishing any materials or labor for any Work covered by Contract shall have right to lien upon premises or improvement or appurtenances thereon. Nothing contained in this paragraph, however, shall defeat or impair right of persons furnishing materials or labor under bond given by Contractor for their protection or any rights under law permitting persons to look to funds due Contractor in hands of Owner.

F. Turn-In. Contract Documents will not be closed out and final payment will not be made until all keys issued to Contractor during prosecution of Work and letters from property owners, pursuant to Contract Documents, are turned in to Owner.

G. Release of Claims. Contract Documents will not be closed out and final payment will not be due or made until Document 00 6530 (Agreement and Release of Claims) is completed and executed by Contractor and Owner.

H. Fire Inspection Coordination. Coordinate fire inspection and secure sufficient notice to Owner to permit convenient scheduling (if applicable).

I. Building Inspection Coordination. Coordinate with Owner a final inspection for the purpose of obtaining an occupancy certificate (if applicable).

PART 2 - PRODUCTS – NOT USED

PART 3 - EXECUTION – NOT USED

END OF SECTION
Peralta Community College District

ENVIRONMENTALLY SUSTAINABLE PROCUREMENT--CONSTRUCTION

It is the policy of the Peralta Community College District (Board Policy 2.40, Environmental Sustainability), to purchase products or services that help to minimize the adverse effects on human health and the environment, when compared to other products and services that serve the same purpose with comparable efficacy. The District recognizes that environmentally responsible purchasing will help create and sustain markets for environmentally sustainable products, and is committed to encouraging the procurement of products with high recycled content, FSC certified lumber, Energy Star rated equipment, low and no VOC paints, low-toxicity cleaning supplies and Green Seal approved chemicals, and will promote contracting with businesses in close proximity, to reduce our carbon footprint and to promote the District’s SLBE program.

For Operation and Construction services the District is committed to:

- **Utilizing LEED (Leadership in Energy and Environmental Design) or equivalent certification criteria as follows:**
  - All new building projects shall qualify for *at least* LEED NC Silver certification and shall strive for higher levels of certification, especially where overall long-term building operations, student learning, and worker productivity savings can be realized through doing so.
  - All renovation projects over 10,000 square feet shall meet basic “LEED Existing Building” certification standards.
- **Maximizing energy efficiency** throughout the District, in particular, heating, cooling, lighting, information technology, mechanical, and water systems. It is the goal of the District to reduce dramatically our energy consumption for existing buildings and for all new buildings to exceed the State of California Building Code Title 24 energy efficiency requirements by no less than 35%.
- **Reduction of water consumption** for all uses, including for irrigation and domestic purposes.
- **Waste source reduction** and the re-use of materials. The District encourages all contractors to re-use and recycle as much construction and demolition debris as possible, and only when it is not feasible to do so, dispose of it in a landfill. All contractors must adhere to the District’s Construction Debris Reporting Requirements.
- **Sustainable landscaping and grounds design**, construction and maintenance practices which promote integrated pest management and use of drought tolerant, fire safe, and native vegetation types.

All public work projects must adhere to the District Environmental Sustainability Policy 2.40. The formal policy is available for download at [www.peralta.edu](http://www.peralta.edu); click on the District Services Center tab and then Purchasing to view the environmentally sustainable purchasing policy.

**Signature**

I acknowledge and agree to adhere to the District’s Environmental Sustainability policy.

Contractor Name: ________________________  Title: _______________________________

Authorized Signature: _______________________________  Date:
1. PART 1 - GENERAL

1.1. SECTION INCLUDE

1.1.1. Miscellaneous fabricated ferrous metal items, galvanized, plated, and prime painted.
1.1.2. Handrails and Guardrails

1.2. PRODUCTS FURNISHED BUT NOT INSTALLED UNDER THIS SECTION

1.2.1. Section 32 13 13 – Concrete Paving.

1.3. LEED REQUIREMENTS

1.3.1. The Owner has established that the project will achieve LEED certification per the requirements outlined in Section 01 35 44.

1.3.2. The requirements of the following LEED credits are mandatory for the work included in this section in order to achieve LEED certification:

1.3.2.1. Materials and Resources credit 4 – Recycled Content
1.3.2.2. Indoor Environmental Quality credit 4.2 – Low-emitting materials: Paints and Coatings

1.3.3. The product(s) in this section contribute(s) to meeting the requirements of the following LEED credits for the work included in this section. In turn, the following LEED credits contribute toward the targeted LEED certification of the project:

1.3.3.1. Materials and Resources credit 5 – Regional Materials

1.4. REFERENCES

1.4.1. 2010 California Building Code (CBC), with State of California Amendments.
1.4.2. American Society for Testing and Materials (ASTM) Specifications as listed in the section.
1.4.3. AISC: American Institute of Steel Construction (Steel Manual).
1.4.4. Steel Structures Painting Council (SSPC)

1.5. SUBMITTALS

1.5.1. Submit under provisions of Section 01 33 00.
1.5.2. Product Data: Provide data on material, finishes and attachment.

1.5.3. Manufacturer’s Installation Instructions: Submit criteria for preparation and application.

1.5.4. Shop Drawings: Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories. Include erection drawings, elevations, and details where applicable.

1.5.4.1. Provide shop drawings and calculations for steel stair assemblies. See structural drawings for additional information and criteria.

1.5.5. Indicate welded connections using standard AWS A2.0 welding symbols. Indicate net weld lengths.

1.5.6. LEED Submittal: Submit all required LEED documentation for mandatory and contributing credits noted in paragraph 1.4 per the submittal requirements outlined in Section 01 35 44.

1.5.6.1. Credit MR 4.1 and Credit MR 4.2: Product data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content. Include statement indicating costs for each product having recycled content.

1.5.6.2. Credit EQ 4.1: Product data for adhesives and sealants used inside the weatherproofing system indicating VOC content of each product used and the corresponding VOC maximum. Indicate VOC content in g/L calculated according to 40 CFR 59, Subpart D.

1.5.6.3. Credit EQ 4.2: Product data for paints and coatings used inside the weatherproofing system indicating VOC content of each product used and the corresponding VOC maximum. Indicate VOC content in g/L calculated according to 40 CFR 59, Subpart D.

1.6. QUALITY ASSURANCE

1.6.1. Manufacturer: Manufacturer shall have produced the specified system or 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.

1.6.2. Staff:

1.6.2.1. Use only personnel who are thoroughly trained and experienced in the skills required and have installed similar applications of the specified products within five years prior to beginning work of this section.

1.6.2.2. Use only staff who are completely familiar with the manufacturers’ recommended methods of installation as well as the requirements of this work.

1.6.3. Welders’ Certificates: Submit under provisions of Section 01 33 00, certifying welders employed on the Work, verifying AWS qualification within the previous 12 months.

1.7. FIELD MEASUREMENTS

1.7.1. Verify that field measurements are as indicated on shop drawings.
2. PART 2 – PRODUCTS

2.1. MANUFACTURERS

2.1.1. Basis of Design: Characteristics of specific products, where named in this Section, are indicated to establish required level of quality, appearance, and performance. Architect will consider requests for substitutions, under the provisions of Section 01 25 00.

2.2. MATERIALS

2.2.1. Plates and Bars: ASTM A283, Grade D or approved equal.

2.2.2. Pipe: ASTM A53, Type E or S, Grade B Schedule 40, (pressure test not required), unless noted otherwise.

2.2.3. Tube: ASTM A 500, Grade B.

2.2.4. Sheet Steel: ASTM A 653, gage and profile indicated, galvanized to G90 finish in accordance with ASTM A 653.


2.2.6. Welding Materials: AWS D1.1; type required for materials being welded.


2.2.7.1. Primer VOC to comply with Section 01 35 44 LEED Requirements.

2.2.8. Galvanizing: Hot-dip process ASTM A123 typical and ASTM A153 for threaded fasteners performed after fabrication into largest practical section. Weight of coating not less than 2 oz. per sq. ft. of surface. Where damaged, repair surface with one coat of hot process galvanizing repair compound, "Galvalloy", Galvweldalloy", or approved equal.

2.2.9. Copper: ASTM B370, temper H00 (cold rolled) or 060 (soft), 16 ounce unless noted otherwise.

2.2.10. Solder: 50% pig lead and 50% block tin.

2.2.11. Flux: Rosin, muriatic acid neutralized with zinc or an approved soldering paste.

2.2.12. Fastening Devices for Copper: Hard copper, brass or bronze. Screws shall be round headed with lead washers.

2.2.13. Dissimilar Materials: Separate dissimilar surfaces in contact with or in close proximity to non-compatible metals, concrete masonry, or plaster with neoprene gasket; or other approved means.


2.2.15. Non-shrink Grout: Master builders 928 or equal.
2.3. STEEL HANDRAILS RAILING AND GUARD SYSTEMS

2.3.1. General: In engineering handrails and railings to withstand structural loads indicated, determine allowable design working stresses of materials based on the following:

2.3.1.1. Stainless Steel: ASCE 8, "Specification for the Design of Cold-Formed Stainless Steel Structural Members."

2.3.2. Structural Performance of Handrails and Railings: Provide handrails and railings capable of withstanding the following structural loads without exceeding allowable design working stress of materials for handrails, railings, anchors, and connections:

2.3.2.1. Top Rail of Guards: Capable of withstanding the following loads applied as indicated:

2.3.2.2. Concentrated load of 200 lbf applied at any point and in any direction.

2.3.2.2.1. Uniform load of 50 lbf/ft. applied horizontally and concurrently with uniform load of 100 lbf/ft. applied vertically downward.

2.3.2.2.2. Concentrated and uniform loads above need not be assumed to act concurrently.

2.3.2.3. Infill Area of Guards: Capable of withstanding a horizontal concentrated load of 200 lbf applied at any point in system, including panels, intermediate rails, balusters, or other elements composing infill area.

2.3.2.3.1. Load above need not be assumed to act concurrently with loads on top rails in determining stress on guard.

2.3.3. Thermal Movements: Provide handrails and railings that allow for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures by preventing buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

2.3.3.1. Temperature Change (Range): 120 deg F, ambient; 180 deg F, material surfaces.

2.3.4. Control of Corrosion: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.

2.3.5. Steel Pipe: ASTM A53, Grade B.

2.3.6. Rails and Posts: Size, shape and spacing as shown on the Drawings, welded joints.

2.3.6.1. Handrail: 1 inch NPS (1.33 inch OD), Schedule 80, welded joints.

2.3.6.2. Horizontal members: 1-1/2 inch OD w/ 0.120 inch wall thickness.

2.3.6.3. Vertical members: 1-1/2 inch OD w/ 0.188 inch wall thickness.

2.3.7. Fittings: Elbows, T-shapes, wall brackets; bent or mitered tube steel.
2.3.8. Mounting: Adjustable brackets and flanges, with steel inserts for casting in concrete. Prepare backing plate for mounting in framed wall construction. Modify bracket as required to provide 1-1/2 inch clear dimension from face of wall surface to railing inside surface.

2.3.9. Fasteners for Anchoring Handrails, Guard and Railings to Other Construction: Select fasteners of type, grade, and class required to produce connections suitable for anchoring handrails and railings to other types of construction indicated and capable of withstanding design loads.

2.3.10. Fasteners for Interconnecting Handrail and Railing Components: Use fasteners fabricated from same basic metal as fastened metal, unless otherwise indicated. Do not use metals that are corrosive or incompatible with materials joined.

2.3.10.1. Provide concealed fasteners for interconnecting railing components and for attaching them to other Work, unless exposed fasteners are unavoidable or are standard fastening method for handrail and railing indicated.

2.3.10.2. Provide Phillips flat-head machine screws for exposed fasteners, unless otherwise indicated.

2.3.11. Splice Connectors: Steel welding inserts.


2.4. FABRICATION

2.4.1. Verify dimensions on site prior to shop fabrication.

2.4.2. Fit and shop assemble in each item in largest practical sections, for delivery to site.

2.4.3. Fabricate items with joints tightly fitted and secured.

2.4.4. Continuously seal joined members by continuous welds.

2.4.5. Grind exposed joints flush and smooth with adjacent finish surface. Make exposed joints butt tight, flush, and hairline. Ease exposed edges to small uniform radius.

2.4.6. Exposed Mechanical Fastenings: Flush countersunk screws or bolts; unobtrusively located; consistent with design of component, except where specifically noted otherwise.

2.4.7. Supply components required for anchorage of fabrications. Fabricate anchors and related components of same material and finish as fabrication, except where specifically noted otherwise.

2.4.8. Fabricate radiused components by cold-rolled process, using equipment and techniques resulting in crimp free surfaces. Verify component wall thickness is suitable for rolling without flattening or crimping.

2.4.9. In addition to above criteria, fabricate railing, guard and trellis components for exposed architectural appearance conditions.

2.4.9.1. Remove all weld splatter, grind and sand all weld joints uniformly smooth, without visible scratches, gouges, or patch marks. Conform to Finish #2 of National Ornamental and Miscellaneous Metals Association “Joint Finish Guidelines.”
2.4.9.2. All visible welds shall be continuous; bead or spot welding not acceptable.

2.4.9.3. Provide tube closures at all tube and pipe components.

2.4.9.4. Grind edges of all bent and fabricated components smooth to a 1/4 inch radius.

2.5. FINISHES

2.5.1. Galvanize all exterior components, after fabrication, in accordance with ASTM A123 or A386. Provide minimum 2.00 oz/sq ft galvanized coating. Fill vent holes after galvanizing.

2.5.1.1. Where steel is designated as painted in finished project, do not water quench or apply chromate conversion coatings as a part of the galvanizing process. Contractor shall notify steel galvanizing fabricator of all steel designated as painted.

2.5.2. Prime paint interior items with one coat rust inhibitive VOC approved primer compatible with finish specified in Section 09 91 00.

2.5.2.1. Prepare surfaces to be primed in accordance with SSPC SP 2.

2.5.2.2. Do not prime surfaces in direct contact with concrete or where field welding is required.

2.6. MISCELLANEOUS METAL FABRICATIONS AND ACCESSORIES

2.6.1. Unistrut: Provide Unistrut assemblies as shown on drawings.

2.7. OTHER MATERIALS

2.7.1. 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 of 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. PREPARATION

3.2.1. Clean and strip primed steel items to bare metal where site welding is required.

3.2.2. Supply items required to be cast into concrete or embedded in masonry with setting templates, to appropriate sections.

3.3. INSTALLATION

3.3.1. Install items plumb and level, accurately fitted, free from distortion or defects.

3.3.2. Allow for erection loads, and for sufficient temporary bracing to maintain true alignment until completion of erection and installation of permanent attachments.

3.3.3. Perform field welding in accordance with AWS D1.1.

3.3.4. After erection, prime welds, abrasions, and surfaces not shop primed or galvanized, except surfaces to be in contact with concrete.

3.3.4.1. Use primer as specified in above for interior steel fabrications.

3.3.4.2. Use Galvalloy galvanizing coating in accordance with manufacturer’s instructions for exterior steel fabrications.

3.3.5. Install all railing and guards in accordance with applicable codes and regulations. Maintain all required clearance and dimensions, including the following:

3.3.5.1. Maintain continuous 1-1/2 inch clear dimension between handrail and adjacent wall.

3.3.5.2. Maintain railing, guardrail, and adjacent surface configuration so that a sphere 4 inches in diameter cannot pass through any opening or gap created.

3.3.5.3. Do not permit railing fabrication and installation to extend into required exit dimension at stairway.

3.4. ERECTION TOLERANCES

3.4.1. Maximum Variation From Plumb: 1/4 inch per story, non-cumulative.

3.4.2. Maximum Offset From True Alignment: 1/4 inch.

3.5. SCHEDULED FABRICATION

3.5.1. The following is a list of principal items only. Refer to Drawing details for items not specifically scheduled.

3.5.2. Railing, stair, guard and ladder: Fabricate as shown on drawings, with steel mounting brackets and attachments; prime paint at interior locations; galvanized finish for exterior locations.

3.5.3. Miscellaneous Anchorages: Anchor bolts, machine bolts, eye bolts, dowels, threaded rods, plates, inter, and other fastenings to be installed in concrete or masonry; provide as detailed or indicated.
SECTION 260526

GROUNDING AND BONDING

PART 1 - GENERAL

1.01 SUMMARY

A. Work included: Labor, materials and equipment necessary to complete the installation required for the item specified under this Division, including but not limited to:

1. Power system grounding.
2. Site lighting grounding.
3. Telecommunication system grounding.
4. Electrical equipment and raceway grounding and bonding.
5. Safety ground grid and/or mat.

B. Related Work: Consult all other Sections, determine the extent and character of related Work and properly coordinate Work specified herein with that specified elsewhere to produce a complete installation.

1. Division 05: Building Steel.
2. Division 22: Cold Water Piping.

1.02 REFERENCES

A. Comply with the latest edition of the following applicable Specifications and standards except as otherwise indicated or specified:

1. Underwriters Laboratories, Inc. (UL):
   UL 467; Grounding and Bonding Equipment.
2. Institute of Electrical and Electronics Engineers, Inc. (IEEE):
   IEEE No. 142; Recommended Practice for Grounding of industrial and Commercial Power Systems.

1.03 SYSTEM DESCRIPTION

A. Ground the electrical service system neutral at service entrance equipment as described herein and indicated on Drawings.

B. Ground each separately derived system neutral as described herein and indicated on Drawings.

C. Provide telecommunications system grounding conductor as described herein and indicate on Drawings.

D. Provide a safety ground grid and/or mat beneath all electrical switchgear operating at 1000 volts and above, and at emergency generator. Grid/mat shall be poured in the concrete floor slab and constructed as specified herein.

E. Except as otherwise indicated, the complete electrical installation including the neutral conductor, metallic conduits and raceways, cable trays, boxes, cabinets and equipment shall be completely and effectively grounded in accordance with all code requirements, whether or not such connections are specifically indicated or specified.

F. Resistance:
1. Resistance from the main switchboard ground bus through the ground electrode to earth shall not exceed 5 OHMS unless otherwise noted.
2. Resistance from the farthest panelboard, switchboard, etc. ground bus through the ground electrode to earth shall not exceed 20 OHMS

1.04 SUBMITTALS

A. Submit in accordance with the requirements of Section 260010: Basic Electrical Requirements, the following items:
   1. Data/catalog cuts for each product and component specified herein, listing all physical and electrical characteristics and ratings indicating compliance with all listed standards.
   2. Clearly mark on each data sheet the specific item(s) being submitted and the proposed application.
   3. Submit Manufacturer’s installation instructions.

1.05 QUALITY ASSURANCE

A. All materials, equipment and parts comprising the units specified herein shall be new, unused and currently under production.

B. Only products and applications listed in this Section may be used on the Project unless otherwise submitted.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Products furnished by the following Manufacturers shall be acceptable if in compliance with all features specified herein and indicated on the Drawings.
   1. Ground Rods:
      a. Weaver.
      b. Erico "Cadweld" Products, Inc.
   2. Ground Wells:
      a. Christy Concrete Products, Inc.
      b. Formi Corp.
   3. Ground Bushings, Connectors, Jumpers and Bus:
      a. O-Z/Gedney.
      b. Thomas & Betts Corp.

B. Substitutions: Under provisions of Section 260010: Basic Electrical Requirements.

2.02 GROUND CONDUCTORS

A. Refer to Specification Section 260519: Building Wire and Cable for conductor specifications.

B. General purpose insulated:
   1. UL approved and code sized copper conductor, with dual rated THHN/THWN insulation, color identified green.
   2. Where continuous color-coded conductors are not commercially available, provide a minimum 4" long color band with green, non-aging, plastic tape in accordance with NEC/CEC.

C. Bare conductors in direct contact with earth or encased in concrete: #2/0 AWG copper minimum, U.O.N.
D. Bonding pigtail: Insulated copper conductor, identified green, sized per code and provide with termination screw or lug. Provide solid conductors for #10 AWG or smaller and stranded conductors for #8 AWG or larger.

2.03 DRIVEN (GROUND) RODS

A. Copper clad steel, minimum 3/4-inch diameter by 8 feet long, unless otherwise noted.

2.04 GROUND WELL BOXES FOR GROUND RODS

A. Precast concrete box nominal 9" throat diameter x 14" deep with light duty concrete cover for non-traffic areas or steel plate for traffic areas. Cover shall be embossed or engraved with "GROUND ROD".

2.05 INSULATED GROUNDING BUSHINGS

A. Plated malleable iron or steel body with 150 degree Centigrade molded plastic insulating throat and lay-in grounding lug.

2.06 CONNECTIONS TO PIPE

A. For cable to pipe: UL and NEC/CEC approved bolted connection.

2.07 CONNECTIONS TO STRUCTURAL STEEL, GROUND RODS OR SPLICES

A. Where required by the Drawings, grounding conductors shall be spliced together, connected to ground rods or connected to structural steel using exothermic welds or high pressure compression type connectors.
   1. Exothermic welds shall be used for cable-to-cable and cable-to-ground rod and for cable to structural steel surfaces. Exothermic weld kits shall be as manufactured by Cadweld or equal. Each particular type of weld shall use a kit unique to that type of weld.
   2. High-pressure compression type connectors shall be used for cable-to-cable and cable-to-ground rod connections.

2.08 EXTRA FLEXIBLE, FLAT BONDING JUMPERS

A. Where required by Code, indicated on the Drawing, and specified herein.

2.09 BUILDING GROUND BUS REQUIREMENTS

A. Main building power system ground bus:
   1. Provide one 24" wide x 4" high x 1/4" thick copper bus bar as a minimum. Mount on wall in main electrical room utilizing insulating stand-offs at 18" above finished floor.
   2. Furnish complete with cast copper alloy body lugs for connecting grounding system conductors. Attach lugs to bus with appropriate size cadmium bronze bolt, flat washer and Belleville washer. Torque all lug connections.
   3. All holes shall be drilled and tapped for single-hole lugs. Provide 6 spare lugs and lug spaces.

B. Building power system reference ground bus:
   1. The reference ground bus is furnished as part of the main electrical switchboard for the building, along with neutral disconnect and bus, and is in addition to the main building power system ground bus outlined above. The building grounding electrode shall make a direct connection to the building referenced ground bus in the main switchboard.
   2. Provide a #2/0 AWG copper ground conductor connection between the building reference ground bus in switchboard and the main building ground bus wall mounted in main electrical room.

C. Telecommunication system ground bus requirements:
1. Main telecommunication system ground bus: Provide one 18" wide x 4" high x 1/4" thick copper bus bar as a minimum. Mount on wall in MDF room utilizing insulating stand-offs at 18" above finished floor.

2. Telecommunication system ground bus: Provide one 12" wide x 4" high x 1/4" thick copper bus bar as a minimum. Mount on wall in each IDF room and in the MPOE room utilizing insulating stand-offs at 18" above finished floor.

3. Furnish complete with cast copper alloy body lugs for connecting grounding system conductors. Attach lugs to bus with appropriate size cadmium bronze bolt, flat washer and Belleville washer. Torque all lug connections.

4. All holes shall be drilled and tapped for single-hole lugs. Provide 3 spare lugs and lug spaces.

2.10 SAFETY GROUND GRID AND/OR MAT

A. Provide prefabricated or field constructed wire mesh consisting of #6 AWG bare copper conductors forming a 24" x 24" grid. Prefabricated wire mesh shall be constructed with silver brazing at all cross intersections. Field constructed wire mesh shall utilize either exothermic welds or high pressure compression connectors at all cross intersections.

B. Provide #4/0 AWG bare copper conductor installed in the center of grid and run parallel the length of the mesh, leaving 8 foot pigtailed at both ends for bonding with electrical switchgear.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Contractor shall thoroughly examine Project site conditions for acceptance of grounding system installation to verify conformance with Manufacturer and Specification tolerances. Do not commence with installation until all conditions are made satisfactory.

3.02 INSTALLATION

A. Grounding electrodes:

1. Metal underground water pipe: Cold water metal piping system: Where the underground cold water service line is metal, indirect contact with the earth for 10 feet or more, the Contractor shall install a grounding electrode conductor from the main incoming cold water line ahead of the meter and extend to the main building reference ground bus in the main electrical room. The electrode shall be sized per NEC/CEC Article 250. Electrode connection should be accessible.

2. Concrete encased grounding electrode (UFER ground): Provide a #2/0 AWG minimum bare copper conductor encased along the bottom of concrete foundation orfootings which are in direct contact with the earth and where there is no impervious water-proofing membrane between the footing and the soil. The electrode shall extend through a horizontal length of 30 feet minimum and shall be encased in not less than 2 or more than 5 inches of concrete separating it from surrounding soils. The electrode shall emerge from the concrete slab through a protective non-metallic sleeve and shall be extended to the main building reference ground bus.

3. Supplementary grounding electrode (ground ring, grid and driven rods): Provide, as indicated on the Drawings, driven ground rod(s) installed in listed ground well box(s) and filled with gravel after connection is made. Interconnect ground rod with structural steel and adjacent rods with minimum #4 AWG bare copper conductor. Ground rod shall not be less than 10 foot from any other electrode of another electrical system or from adjacent ground rod(s).

B. Grounding electrode conductor: Provide grounding electrode conductor as indicated on the Drawings or sized per NEC/CEC Article 250, whichever is greater.

C. Power system grounding:
1. Provide, unless otherwise indicated, a main building power system ground bus mounted on the wall in the main electrical room. Connect the following items using NEC/CEC sized copper grounding conductors to lugs on the main building ground bus:
   a. Grounding conductor from building reference ground bus in main service switchboard.
   b. Bonding conductor to metallic cold water piping system.
   c. Bonding conductor to building structural steel.
   d. Separately derived system grounding conductors in same room.

2. At the building power system reference ground bus in the main service switchboard, connect the grounding electrode conductor from concrete encased UFER ground or other grounding electrode systems as indicated on the Drawing or herein.

D. Separately derived electrical system grounding:
   1. Ground each separately derived system per requirements in NEC/CEC Article 250 as a minimum, unless greater requirements are required elsewhere in the Contract Documents.
   2. Transformers: Provide a dual rated four or six-barrel grounding lug with a 5/8"-11 threaded hole. Drill enclosure with 11/16" bit and attach lug to enclosure utilizing a torque bolt and a dragon tooth transition washer or equal. Connect the following when present:
      a. Grounding electrode conductor from supplemental ground rods.
      b. Building steel.
      c. Cold water pipe.
      d. Primary feeder ground.
      e. Secondary feeder ground.
      f. Main bond jumper.
      g. Isolated ground conductor.
   3. Where construction of the building does not allow for easy connections to building steel, i.e. concrete constructed building structural system, a separate ground riser system shall be installed within the building. System shall consist of the following:
      a. From main building power system ground bus provide a #2/0 THHN ground conductor in a 1-1/4" conduit to each electrical riser closet and extend up through building to top floor electrical rooms.
      b. At each floor within each electrical room, provide a wall mounted pullbox at 7'6" above finished floor to terminate and extend the ground riser conduit and conductor.
      c. Pullbox shall be a minimum of 14" x 14" x 6" deep and shall house a 12" wide x 4" high x 3/4" thick bus bar on stand-off, mounted to back of pullbox. Furnish complete with cast copper alloy body lugs for connecting grounding system conductors. Attach lugs to bus with appropriate size cadmium bronze bolt, flat washer and Belleville washer. Torque all lug connections.

E. Equipment bonding/grounding:
   1. Provide a NEC/CEC sized insulated copper ground conductor in all 120VAC through 600 VAC feeder and branch circuit distribution conduits and cables.
   2. Provide a separate grounding bus at panelboards, switchboards. Connect all metallic enclosed equipment so that with maximum fault current flowing, shall be maintained at not more than 35 volts above ground.
3. Conduit terminating in concentric, eccentric or oversized knockouts at panelboards, cabinets, gutters, etc. shall have grounding bushings and bonding jumpers installed interconnecting all such conduits.

4. Provide bonding jumpers across expansion and deflection couplings in conduit runs, pipe connections to water meters, dielectric couplings in metallic cold water piping system.

5. Provide internal ground wire in flexible conduit connected at each end via grounding bushing.

6. Provide external ground wire wrapped around flexible conduit and terminate to connectors designed for the purpose.

F. Site lighting grounding: Bond all metallic light poles and bollards. Provide ground rods where indicated on the Drawings.

G. Telecommunication system grounding:

1. In addition to grounding noted on the Drawings for the power systems, provide a telecommunication system ground riser for interconnecting the MDF, MPOE and all of the IDF rooms in the building.

2. Riser shall consist of the following:
   a. Provide a main telecommunication system ground bus wall mounted in the MDF room at the ground floor of building.
   b. Provide telecommunication system ground bus wall mounted in each IDF room and at MPOE room.
   c. From the main telecommunication system ground bus provide one #1/0 THHN in 1-1/4” conduit to the main electrical room and terminate conductor at the main building power system ground bus.
   d. Additionally, from the main telecommunication system ground bus provide one #1/0 THHN in 1-1/4” conduit to the MPOE room and terminate conductor at the telecommunication system ground bus.
   e. If IDF rooms exist on the ground floor of building, provide one #1/0 THHN in 1-1/4” conduit from the telecommunication system ground bus in each room to the main telecommunication system ground bus in the MDF room. If there are no IDF rooms at ground floor, provide one #1/0 THHN in 1-1/4” conduit from the telecommunication system ground bus in each IDF room at second floor and route to the main telecommunication system ground bus in the MDF room at ground floor.
   f. From each of the telecommunication system ground buses at the IDF rooms on ground or second floor, route one #1/0 THHN in 1-1/4” conduit as a riser up the building to intertie all the telecommunication system ground buses in each IDF room.

H. Switchgear operating at over 1000 volts, unit substations and generators:

1. Provide a safety grid and/or mat encased in the middle of the concrete pad or floor beneath the switchgear or equipment with bare copper conductor pigtails extending up through slab at both ends of switchgear/equipment, within footprint of gear.

2. The grid/mat shall extend a minimum of 48” beyond the footprint of the equipment on both ends and at the back side of switchgear.

3. The grid/mat shall extend a minimum of 72” beyond the footprint on the equipment on the front side of switchgear.

4. Terminate the safety grid/mat #1/0 AWG bare copper conductor pigtails to the electrical equipment ground bus within sections at each end of equipment lineup.

3.03 FIELD QUALITY CONTROL

A. Refer to Specification Section 260800: Electrical Commissioning.
B. Independent Testing: Contractor shall arrange and pay for the services of an independent Testing Agency to perform all quality control electrical testing required herein.

C. Prefunctional testing:

1. Provide Testing Agency with Contract Documents for their review prior to the commencement of ground testing.

2. Visual and mechanical inspection:
   a. The Testing Agency shall inspect the grounding electrode and connections prior to concrete encasement, burial or concealment.
   b. Check tightness and welds of all ground conductor terminations.
   c. Verify installation complies with the intent of the Contract Documents

3. Obtain and record ground resistance measurements both from electrical equipment ground bus to the ground electrode and from the ground electrode to earth. Furnish and install additional bonding and add grounding electrodes as required complying with resistance limits specified under this Section of the Specification.

4. A typewritten record of measured resistance values shall be submitted for review and included with the operation and maintenance manual furnished to the Owner at the time of Project closeout and before certificate of final payment is issued.

END OF SECTION
SECTION 260531

CONDUIT

PART 1 - GENERAL

1.01 SUMMARY

A. Work included: Labor, materials and equipment necessary to complete the installation required for the item specified under this Division, including but not limited to:

1. Rigid steel conduit and fittings.
2. PVC insulated rigid steel conduit and fittings.
3. Intermediate metal conduit and fittings.
4. Electrical metallic tubing and fittings.
5. Flexible metallic conduit and fittings.
6. Liquidtight flexible metallic conduit and fittings.
7. Miscellaneous conduit fittings and products.

B. Related Work: Consult all other Sections, determine the extent and character of related Work and properly coordinate Work specified herein with that specified elsewhere to produce a complete installation.

1. Division 01: Cutting and patching.
2. Division 07: Sheet metal flashing and trim.

1.02 REFERENCES

A. Comply with the latest edition of the following applicable Specifications and standards except as otherwise indicated or specified:

1. Federal Specifications (FS):
   FS WW-C-563; Electrical Metallic Tubing.
   FS WW-C-566; Specification for Flexible Metal Conduit.
   FS WW-C-581; Specification for Galvanized Rigid Conduit.
   FS W-C-1094A; Conduit and Conduit Fittings Plastic, Rigid.

2. American National Standards Institute, Inc. (ANSI):
   ANSI C80.1; Rigid Steel Conduit, Zinc-Coated.
   ANSI C80.3; Electrical Metallic Tubing, Zinc Coated.

3. Underwriters Laboratories, Inc. (UL):
   UL 1; Flexible Metal Conduit.
   UL 6; Rigid Metal Conduit.
   UL 360; Liquid-Tight Flexible Steel Conduit.
   UL 514B; Conduit, Tubing and Cable Fittings.
   UL 635; Insulating Bushings.
   UL 797; Electrical Metallic Tubing - Steel.
   UL 1242; Intermediate Metal Conduit - Steel.
4. National Electrical Manufacturer Association (NEMA):
   NEMA RN1; PVC Externally coated Galvanized Rigid Steel Conduit.

1.03 SUBMITTALS
A. Submit in accordance with the requirements of Section 260010: Basic Electrical
   Requirements the following items:
   1. Data/catalog cuts for each product and component specified herein, listing all physical
      and electrical characteristics and ratings indicating compliance with all listed standards.
   2. Clearly mark on each data sheet the specific item(s) being submitted and the proposed
      application.
   3. Submit Manufacturer’s installation instruction. Provide written instructions for raceway
      products requiring glues, special tools or specific installation techniques.

1.04 QUALITY ASSURANCE
A. All materials, equipment and parts comprising the units specified herein shall be new, unused
   and currently under production.
B. Only products and applications listed in this Section may be used on the Project unless
   otherwise submitted and approved.

PART 2 - PRODUCTS

2.01 MANUFACTURERS
A. Products furnished by the following Manufacturers shall be acceptable if in compliance with
   all features specified herein and indicated on the Drawings.
   1. Metal conduit:
      a. Allied Tube and Conduit Co.
      b. Triang'e PWC, Inc.
      c. Western Tube and Conduit Corp.
      d. Spring City Electrical Manufacturing Co.
      e. Occidental Coating Co. (OCAL).
      f. Alflex Corp.
      g. American Flexible Metal Conduit Co.
      h. Anaconda.
   2. Fittings:
      a. Appleton Electric Co.
      b. OZ/Gedney.
      c. Thomas & Betts Corp.
      d. Spring City Electrical Manufacturing Co.
      e. Occidental Coating Co. (OCAL).
      f. Carlon.
B. Substitutions: Under provisions of Section 260010: Basic Electrical Requirements.

2.02 GALVANIZED RIGID STEEL CONDUIT (GRS)
A. Conduit: Full weight, threaded, hot-dip galvanized steel, conforming to ANSI C80.1 and UL
   6.
B. Standard threaded couplings, locknuts, bushings and elbows: Only materials of steel or malleable iron are acceptable. Locknuts shall be bonding type with sharp edges for digging into the metal wall of an enclosure.

C. Three piece couplings: Electroplated, cast malleable iron.

D. Insulating bushings: Threaded polypropylene or thermosetting phenolic rated 150 degree C minimum.

E. Insulated grounding bushings: Threaded cast malleable iron body with insulated throat and steel "lay-in" ground lug with compression screw.

F. Insulated metallic bushings: Threaded cast malleable iron body with plastic insulated throat rated 150 degrees C.

G. All fittings and connectors shall be threaded.

2.03 PVC INSULATED GALVANIZED RIGID STEEL CONDUIT (PVC GRS)

A. Conduit: Full weight, threaded, hot-dip galvanized steel, conforming to ANSI C80.1 and NEMA RN-1 with nominal 20 or 40 mil thermoplastic vinyl coating, heat fused and bonded to the exterior of the conduit.

B. Fittings: Conduit couplings and connectors shall be as specified for galvanized rigid steel conduit and shall be factory PVC coated with an insulating jacket equivalent to that of the coated material.

2.04 INTERMEDIATE METAL CONDUIT (IMC)

A. Conduit: Hot dip galvanized steel meeting the requirements of NEC Article 345 and conforming to ANSI C80.6 and UL 1242.

B. Fittings: Conduit couplings, connector and bushing shall be as specified for galvanized rigid steel conduit. Integral retractable type IMC couplings are also acceptable.

2.05 ELECTRICAL METALLIC TUBING (EMT)

A. Conduit: Shall be formed of cold rolled strip steel, electrical resistance welded continuously along the longitudinal seam and hot dip galvanized after fabrication. Conduit shall conform to ANSI C80.3 Specifications and shall meet UL requirements.

B. Set screw type couplings: Electroplated, steel or cast malleable iron, UL listed concrete tight. Use set screw type couplings with four setscrews each of conduit sizes over 2 inches. Setscrews shall be of case hardened steel with hex head and cup point to firmly seat in wall of conduit for positive grounding.

C. Set screw type connectors: Electroplated steel or cast malleable iron UL listed concrete tight with male hub and insulated plastic throat, 150 degree C temperature rated. Setscrew shall be same as for couplings.

D. Raintight couplings: Electroplate steel or cast malleable iron; UL listed raintight and concrete tight, using gland and ring compression type construction.

E. Raintight connectors: Electroplated steel or cast malleable iron, UL listed raintight and concrete tight, with insulated throat, using gland and ring compression type construction.

2.06 FLEXIBLE METALLIC CONDUIT (FMC)

A. Conduit: Shall be fabricated in continuous lengths from galvanized steel strip, spirally wound and formed to provide an interlocking design and conforming to UL 1.

B. Fittings: Connectors shall be of the single screw clamp variety with steel or cast malleable iron bodies and threaded male hubs with insulated throats. Exception: Pressure cast screw-in connectors shall be acceptable for fixture connection in suspended ceilings and cut-in outlet boxes within existing furred walls.

2.07 LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT (LFMC)
A. Conduit: Shall be fabricated in continuous lengths from galvanized steel strips, interlocking spirally wound, covered with extruded liquid tight jacket of polyvinyl chloride (PVC) and conforming to UL 360. Provide conduit with a continuous copper bonding conductor wound spirally between the convolutions.

B. Fittings: Connector body and gland nut shall be of cadmium plated steel or cast malleable iron, with tapered, male, threaded hub; insulated throat and neoprene “O” ring gasket recessed into the face of the stop nut. The clamping gland shall be of molded nylon with an integral brass push-in ferrule.

2.08 MISCELLANEOUS CONDUIT FITTINGS AND PRODUCTS

A. Watertight conduit entrance seals: Steel or cast malleable iron bodies and pressure clamps with PVC sleeve, neoprene sealing grommets and PVC coated steel pressure rings. Fittings shall be supplied with neoprene sealing rings between the body and PVC sleeve.

B. Watertight cable sealing bushings: One piece, compression molded sealing ring with PVC coated steel pressure disks, stainless steel sealing screws and zinc plated cast malleable iron locking collar.

C. Expansion fittings: Multi-piece unit comprised of a hot dip galvanized malleable iron or steel body and outside pressure bushing designed to allow a maximum of 4” conduit movement (2” in either direction). Furnish with external braid tinned copper bonding jumper. Unit shall be UL listed for wet or dry locations.

D. Expansion/deflection couplings: Multi-piece unit comprised of a neoprene sleeve with internal flexible tinned copper braid attached to bronze end couplings with stainless steel bands. Coupling shall accommodate .75-inch deflection, expansion or contraction in any direction and allow 30-degree angular deflections. Flexible, corrosion-resistant, watertight, moisture and heat resistant molded rubber jacket and stainless steel jacket clamps. Unit shall comply with UL467 and UL514. Manufacturer shall be OZ/Gedney Type DX, Steel City Type EDF or equal.

E. Fire rated penetration seals:
   1. UL building materials directory classified.
   2. Conduit penetrations in fire rated separation shall be sealed with a UL classified fill, void or cavity material.
   3. The fire rated sealant material shall be the product best suited for each type of penetration and may be a caulk, putty, composite sheet or wrap/stripe.

F. Standard products not herein specified:
   1. Provide listing of standard electrical conduit hardware and fittings not herein specified for approval prior to use or installation, i.e. locknuts, bushings, etc.
   2. Listing shall include Manufacturer’s name, part numbers and a written description of the item indicating type of material and construction.
   3. Miscellaneous components shall be equal in quality, material and construction to similar items herein specified.

G. Hazardous area fittings: UL listed for the application.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Contractor shall thoroughly examine Project site conditions for acceptance of conduit system installation to verify conformance with Manufacturer and Specification tolerances. Do not commence with installation until all conditions are made satisfactory.

3.02 APPLICATION
A. Galvanized rigid steel conduit (GRS) shall be used in the following applications:
   1. For feeders and branch circuits located indoors, concealed or exposed above suspended ceilings, in damp/wet locations, in crawl spaces, in attics, chases, furred spaces, equipment rooms, loading docks or in hazardous locations in accordance with NEC and local Codes.
   2. For feeders and branch circuits concealed in concrete floors and walls when not in contact with earth.
B. PVC insulated galvanized rigid steel conduit shall be used in the following applications:
   1. Use 40-mil coating for feeders and branch circuits in damp or wet locations.
   2. Use 20 or 40 mil for feeders and branch circuits concealed in concrete walls or slabs in contact with earth.
   3. Use 20 or 40-mil for runs beneath floor slabs on grade.
   4. Use 40-mil for all below grade penetrations through floor slabs on grade or exterior walls.
C. Intermediate metal conduit (IMC): Shall be used for the same application as galvanized rigid steel conduit as specified herein, except for hazardous locations prohibited by CEC, NEC or Local Codes.
D. Electrical metallic tubing (EMT): Shall be used exposed or concealed for interior electrical feeders 4" and smaller, interior power and lighting branch circuits and low tension distribution system where run above suspended ceilings, in concrete slabs and walls not in contact with earth; in stud walls, furred spaces and crawl spaces. EMT shall not be installed exposed below 6 feet above the finish floor except within electrical, communication or signal rooms or closets.
E. Flexible metallic conduit (FMC): Shall be used only in dry locations for connections from an adjacent outlet box or conduit to all motors, transformers, vibrating equipment or machinery, controllers, solenoid valves, float and flow switches or similar devices and to lighting fixtures installed in suspended ceilings, minimum sizes shall be 3/8" for lighting fixtures and control wiring and 1/2" for motor and transformer connections. U.O.N.
F. Liquidtight flexible metallic conduit (LFMC): Shall be used in wet or damp locations for connections from adjacent outlet box or conduit to all motors, transformers, vibrating equipment or machinery, controllers, solenoid valves, float and flow switches or similar devices. These areas are typically food preparation and dishwashing areas, sump wells, loading docks, pump rooms, exterior areas, etc. Minimum sizes shall be 1/2".

3.03 PREPARATION

A. Locations of conduit runs shall be planned in advance of the installation and coordinated with ductwork, plumbing, ceiling and wall construction in the same areas and shall not unnecessarily cross other conduits or pipe, nor prevent removal of ceiling tiles or panels, nor block access to mechanical or electrical equipment.
B. Where practical, install conduits in groups in parallel vertical or horizontal runs and at elevations that avoid unnecessary offsets.
C. All conduits shall be run parallel or at right angles to the centerlines of columns and beams, whether routed exposed, concealed above suspended ceiling or in concrete slabs.
D. Conduits shall not be placed closer than 12 inches to a flue, parallel hot water, steam line or other heat producing source or three inches from such lines when crossing perpendicular to the runs.
E. Exposed conduit installation shall not encroach into the ceiling height headroom of walkways or doorways. Where possible, install horizontal raceway runs above water and below steam piping.
F. The largest trade size conduits in concrete floor and wall slabs shall not exceed 1/3 the floor or wall thickness and conduits shall be spaced a minimum of three conduit diameters apart unless otherwise noted on the Drawings. All conduits shall be installed in the center of concrete slabs or wall and shall not be placed between reinforcing steel and the bottom of floor slabs.

G. In long runs of conduit, provide sufficient pull boxes inside buildings to facilitate pulling wires and cables, with spacing not to exceed 150 feet. Support pull boxes from structure independent of conduit supports. These pull boxes are not indicated on the Drawings.

H. Provide all reasonably inferred standard conduits fitting and products required to complete conduit installation to meet the intended application whether noted, indicated or specified in the Contract Documents or not.

I. Connect recessed lighting fixtures to conduit runs with maximum six feet of flexible metal conduit or MC cable extending from a junction box to the fixture or manufactured wiring system.

3.04 INSTALLATION

A. Install conduit in accordance with Manufacturer's written instructions, as indicated on Drawings and as specified herein.

B. Minimum Conduit Size: Unless otherwise noted herein or on Drawings, minimum conduit size shall be 1/2" for interior applications and 3/4" for exterior and underground applications.

C. All conduit sizes indicated on the Drawings are sized for copper conductors with THHN/THWN insulation. If conductor type or size is changed the Contractor shall be responsible for resizing conduits upward to meet Code.

D. In general, all conduit work shall be concealed where possible. Exceptions shall be electrical, communication and mechanical rooms, exposed ceiling areas, and parking garages.

E. Conduit connections to motors and surface cabinets shall be concealed, with the exception of electrical, communication and mechanical rooms, or unless exposed Work is clearly called for on the Drawings.

F. Install conduits in complete runs before pulling in cables or wires.

G. Install conduit free from dented, bruises or deformations. Remove and replace any damaged conduits with new undamaged material.

H. Conduits shall be well protected and tightly covered during construction using metallic bushings and bushing "Pennies" to seal open ends.

I. In making joints in rigid steel conduit, ream conduit smooth after cutting and threading. Coat all field-threaded joints with UL approved conductive type compound to ensure low resistance ground continuity through conduit and to prevent seizing and corrosion.

J. Clean any conduit in which moisture or any foreign matter has collected before pulling in conductors. Paint all field-threaded joints to prevent corrosion.

K. In all empty conduits or ducts, install a "True Tape" conduit measuring tape line to provide overall conduit length for determining length of cables/conductors for future use.

L. Conduit systems shall be mechanically and electrically continuous throughout. Install code size, insulated, copper, green-grounding conductors in all conduit runs for branch circuits and feeders. This conductor is not indicated on the Drawings. Refer to Section 260526: Grounding and Bonding.

M. Metallic conduit shall not be in contact with other dissimilar metal pipes (i.e. plumbing).

N. Make bends with standard conduit bending hand tool or machines. The use of any item not specifically designed for the bending of electrical conduit is strictly prohibited.
O. A run of conduit between terminations at wire pulling points shall not contain more than the equivalent of four quarter bends (360 degrees, total).

P. Emergency power raceway system: Install entirely independent of other raceway systems, except where specifically allowed by NEC Article 517.

Q. Conduit for conductors above 600 volts use rigid steel.

3.05 PENETRATIONS

A. Locate penetrations and holes in advance where they are proposed in the structural sections such as footings, beams, wall, etc. Penetrations are acceptable only when the following occurs:

1. Where indicated on the Structural Drawings.
2. As approved by the Structural Engineer prior to construction and after submittal of Drawing showing location, size and position of each penetration.

B. Cutting or holes:

1. Cut holes through concrete, masonry block or brick floors and floors of structure with a diamond core drill or concrete saw. Pneumatic hammer, impact electric, hand or manual hammer type drills are not allowed, except where permitted by the Structural Engineer as required by limited working space. Obtain the approval of the Structural Engineer prior to drilling through structural sections.
2. Provide sleeves or “can outs” for cast-in-place concrete floors and walls. Following conduit installation, seal all penetrations using non-iron bearing, chloride free, non-shrinking, dry-pack grouting compounds; or fire rated penetration-sealing materials.
3. Cut holes for conduit penetrations through non-concrete and non-masonry walls, partitions or floors with a hole saw. The hole shall be only as large as required to accommodate the size of the conduit.
4. Provide single piece escutcheon plates around all exposed conduit penetrations in public places.

C. Sealing:

1. Non-rated penetrations: Pack opening around conduits with non-flammable insulating material and seal with gypsum wallboard taping compound.
2. Fire stop: Where conduits, wireways and other electrical raceways pass through fire rated partitions, walls, smoke partitions or floor; install a UL classified fire stop material to provide an effective barrier against the spread of fire, smoke and gases. Completely fill and seal clearances between raceways and openings with the fire stop material.

D. Waterproofing: At floor, exterior wall and roof conduit penetrations, completely seal clearances around the conduit and make watertight as specified in Division 07: Sealants and Caulking.

1. Install specified watertight conduit entrance seals at all below grade wall and floor penetrations. Conduits penetrating exterior building walls and building floor slab shall be PVC coated rigid galvanized steel.
2. For roof penetrations furnish and install roof flashing, counter flashing and pitch-pockets as specified under Roofing and Sheet Metal Sections of the Specifications.
3. Provide membrane clamps and cable sealing fittings for any conduit that horizontally penetrates the waterproof membrane.
4. Conduits that horizontally penetrate a waterproof membrane shall fall away from and below the penetration on the exterior side a minimum of two times the conduit diameters.

3.06 CONCEALED IN CONCRETE
A. Install conduits approximately in the center of the slab so that there will be a minimum of 3/4-inch of concrete around the conduits.

B. Installation of conduit in structural concrete that is less than three inches thick is prohibited. Topping slabs, maintenance pads and curbs are exempted.

C. Tie conduits to reinforcing rods or otherwise secure them to prevent sagging or shifting during concrete placement. Run conduit larger than 1-inch trade size, parallel with or at right angles to the main reinforcement; where at right angles to the reinforcement, the conduit shall be close to one of the supports of the slab.

D. Where nonmetallic conduit or tubing is used, raceways must be converted to PVC coated rigid steel conduit before rising above floor.

E. Make couplings and connections watertight.

F. Protect stub-ups from damage where conduits rise from floor slabs. Arrange so curved portion of bends is not visible above the finished slab.

3.07 TERMINATIONS AND JOINTS

A. Use raceway fittings that are of types compatible with the associated raceway and suitable for the use and location. For intermediate steel conduit, use threaded rigid steel conduit fittings except as otherwise indicated.

B. Raceways shall be joined using specified couplings or transition couplings where dissimilar raceway systems are joined.

C. Conduits shall be securely fastened to cabinets, boxes and gutters using two locknuts and an insulating bushing or specified insulated connectors. Where joints cannot be made tight, use bonding jumpers to provide electrical continuity of the raceway system. Where terminations are subject to vibration, use bonding bushings or wedges to assure electrical continuity. Where subject to vibration or dampness, use insulating bushings to protect conductors. Install grounding bushings or bonding jumpers on all conduits terminating at concentric or eccentric knockouts.

D. Conduit terminations exposed at weatherproof enclosures and cast outlet boxes shall be made watertight using specified connectors and hubs.

E. Stub-up connections: Extend conduits through concrete floor for connection to freestanding equipment with an adjustable top or coupling threaded inside for plugs and set flush with the finished floor. Extend conductors to equipment with rigid steel conduit: flexible metal conduit may be used 6 inches above the floor. Where equipment connections are not made under this contract, install screwdriver operated threaded flush plugs with floor.

F. Install specified cable sealing bushings on all conduits originating outside the building walls and terminating in switchgear, cabinets or gutters inside the building. Install cable sealing bushings or raceway seal for conduit terminations in all grade level or below grade exterior pull, junction or outlet boxes.

G. Raceway seal: Inject into wire filled raceways, a pre-formulated rigid 2 lbs. density polyurethane foam which expands a minimum 35 times its original bulk. Foam shall have the physical properties of water vapor transmission of 1.2 to 3.0 perms; water absorption less than 2% by volume, fungus and bacterial resistant. Foam shall permanent seal against water, moisture, insects and rodents. Install raceway sealing foam at the following points:

1. Where conduits pass from warm locations to cold locations to prevent passage of water vapor (such as refrigerated spaces, constant temperature rooms, air-conditioned spaces, etc.).

2. Where conduits enter buildings from below grade.

3. Where conduits enter or leave animal rooms or research labs.
H. Install expansion couplings where any conduit crosses a building separation or expansion joint as follows:

1. Conduits three inches and larger, shall be rigidly secured to the building structure on opposite sides of a building expansion joint and provided with expansion or deflection couplings. Install the couplings in accordance with the Manufacturer’s recommendations.

2. Conduits smaller than three inches shall be rigidly secured to the building structure on opposite sides of a building expansion joint with junction boxes on both sides of the joint. Connect conduits to junction boxes with 15 inches of slack flexible conduit. Flexible conduit shall have a copper green ground-bonding jumper installed. For concrete embedded conduit, use expansion and deflection couplings as specified above for three inches and larger conduits.

I. Use short length (maximum of 6ft) of the appropriate FMC or LFMC conduit for connections to motors and other electrical equipment subject to movement, vibration, misalignment, cramped quarters or noise transmission. Provide liquidtight flexible metal conduit for installation in exterior locations, moisture or humidity-laden atmosphere, corrosive atmosphere, water hose or spray wash-down operations and locations subject to seepage or dripping of oil, grease or water. Provide a green ground wire with FMC or LFMC conduit.

3.08 SUPPORTS

A. Provide supports for raceways as specified in Section 260529: Electrical Hangers and Supports.

B. All raceways systems shall be secured to building structures using specified fasteners, clamps and hangers spaced according to the NEC.

C. Support single runs of conduit using one-hole pipe straps. Where run horizontally on walls in damp or wet locations, install "clamp backs" to space conduit off the surface.

D. Multiple conduit runs shall be supported using "trapeze" hangers fabricated from specified construction channel, mounted to 3/8-inch diameter, threaded steel rods secured to building structures. Fasten conduit to construction channel with standard one-hole pipe clamps or the equivalent. Provide lateral seismic bracing for hangers.

E. Individual 1/2" and 3/4" conduits installed above suspended ceilings may be attached to the ceiling's hanger wire using spring steel support clips provided that not more than two conduits are attached to any single support wire.

F. Support exposed vertical conduit runs at each floor level, independent of cabinets or switches to which they run, by means of acceptable supports.

G. Fasteners and supports in solid masonry and concrete:

1. Use steel or malleable iron concrete inserts set in place prior to placing the concrete.

2. After concrete installation:
   a. Steel expansion anchors not less than 1/4 inch bolt size and not less than 1-1/8 inch embedment.
   b. Power set fasteners not less than 1/4 inch diameter with depth of penetration not less than three inches.
   c. Use vibration and shock resistant anchors and fasteners for attaching to concrete ceilings.

H. Hollow masonry: Toggle bolts are permitted. Bolts supported only by masonry block are not acceptable.

I. Metal structures: Use machine screw fasteners or other devices specifically designed and approved for the application.
END OF SECTION
SECTION 260543

UNDERGROUND DUCTS AND STRUCTURES

PART 1 - GENERAL

1.01 SUMMARY

A. Work included: Labor, materials and equipment necessary to complete the installation required for the item specified under this Division, including but not limited to:
   1. Underground conduits and ducts.
   2. Duct banks.
   3. Handhole and pullboxes.
   4. Excavation, trenching and backfill.

B. Related Work: Consult all other Sections, determine the extent and character of related Work and properly coordinate Work specified herein with that specified elsewhere to produce a complete installation.
   1. Division 31 - Earthwork: General requirements for Excavation and Backfill and related items for ducts, manholes, pullboxes and handholes.

1.02 REFERENCES

A. Comply with the latest edition of the following applicable Specifications and standards except as otherwise indicated or specified:
   1. Federal Specifications (FS):
      FS SS-S-210A; Sealing Compound, Preformed Plastic for Expansion Joints and Pipe Joints.
      FS W-C-1094A; Conduit and Conduit Fittings Plastic, Rigid.
   2. American National Standards Institute, Inc. (ANSI):
   3. Underwriters Laboratories, Inc. (UL):
      UL 651; Schedule 40 and 80 Rigid PVC Conduit.
      UL 651A; Type EB and A Rigid PVC Conduit and HDPE Conduit.
   4. National Electrical Manufacturer Association (NEMA):
      NEMA RN1; PVC Externally-coated Galvanized Rigid Steel Conduit.
      NEMA TC 2; Electrical Plastic Tubing and Conduit.
      NEMA TC 3; PVC Fittings for use with Rigid PVC Conduit.
      NEMA TC6; PVC Plastic Utilities Duct (EB and BD Type).
   5. American Concrete Institute (ACI):
      ACI 318; Building Code Requirements for Reinforced Concrete.

1.03 DEFINITIONS

A. Duct: Electrical conduit and other raceway, either metallic or nonmetallic, used underground embedded in earth or concrete.

B. Duct bank: Two or more conduits or other raceway installed underground in same trench or concrete envelope.
C. Handhole: An underground junction box in a duct or duct bank.

D. Vault: An underground utility structure, large enough for a person to enter, connecting with ducts to afford facilities for installing, operating and maintaining equipment and wiring.

1.04 SUBMITTALS

A. Submit in accordance with the requirements of Section 260010: Basic Electrical Requirements, the following items:
   1. Data/catalog cuts for each product and component specified herein, listing all physical and electrical characteristics and ratings indicating compliance with all listed standards.
   2. Clearly mark on each data sheet the specific item(s) being submitted and the proposed application.
   3. Shop Drawings showing details and design calculations for precast handholes, including reinforced steel.
   4. Submit Manufacturer’s installation instructions.
   5. Complete bill of material listing all components.

1.05 QUALITY ASSURANCE

A. All materials, equipment and parts comprising the units specified herein shall be new, unused and currently under production.

B. Only products and applications listed in this Section may be used on the Project unless otherwise submitted and approved.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Products furnished by the following Manufacturers shall be acceptable if in compliance with all features specified herein and indicated on the Drawings.
   1. Underground precast concrete utility structures:
      a. Christy Concrete Products, Inc.
      b. Brooks Products, Inc.
      c. Forni Corp.
      d. Utility Vault Co.
      e. Wausau Concrete Co.
   2. Conduits, ducts and fittings:
      a. Carlon Electrical Products.
      b. Occidental Coating Company (OCAL).
      c. PW Pipe Company.

B. Substitution: Under provisions of Section 260010: Basic Electrical Requirements.

2.02 CONDUIT AND DUCT

A. PVC insulated galvanized rigid steel conduit (PVC GRS):
   1. Conduit: Full weight, threaded, hot-dip galvanized steel, conforming to ANSI C80.1 and NEMA RN-1 with nominal 20 or 40 mil thermoplastic vinyl coating, heat fused and bonded to the exterior of the conduit.
   2. Fittings: Conduit couplings and connectors shall be steel or malleable iron as required with factory PVC coating and insulated jacket equivalent to that of the coated material.
B. Rigid non-metallic conduit (PVC):

1. Conduit:
   a. Rigid polyvinylchloride, schedule 40 or 80 conforming to NEMA TC2 and UL 651. UL listed for exposed and direct-burial applications and for 90 degrees C conductor insulation. Conduit shall include an integral bell fitting at one end.
   b. Rigid polyvinylchloride, type EB or DB conforming to NEMA TC 6 and UL 651. UL listed for concrete encased burial and direct burial applications and for 90 degree C conductor insulation. Conduit shall include an integral bell fitting at one end.

2. Fittings: Couplings, adaptors, transition fittings, bell ends, etc., shall be molded PVC, slip on and solvent weld type. Schedule 40 or 80 conforming to NEMA TC 3 and type EB or DB conforming to NEMA TC 9.

3. Factory elbows: Minimum radius bends shall be 36 inches.

C. Duct supports: Rigid PVC spacers selected to provide minimum duct spacing and concrete cover depths, while supporting ducts during concrete pour.

D. Duct sealing compound: Non-hardening, safe for human skin contact, not deleterious to cable insulation, workable at temperatures as low as 35 degree F, withstands temperature of 300 degrees F without slump and adheres to clean surfaces of plastic ducts, metallic conduits, conduit coatings, concrete, cable sheaths and jackets, etc.

2.03 PULLBOXES AND HANDBOLES

A. Construction: High densities precast reinforced concrete box, extension, base and cover. Furnish box with end and side knockouts and non-settling shoulders. Cover shall have hold-down bolts and two lifting eyes.

B. Size: As indicated on the Drawings.

C. Cover markings: Covers shall read “ELECTRICAL” or “SIGNAL” as appropriate.

D. Rated covers: Use cast iron lid with H20 traffic rating when subject to vehicular traffic.

2.04 CONSTRUCTION MATERIALS

A. Mortar: Conform to ASTM C270, Type M, except for quantities less than 2.0 Cu. Ft., where packaged mix complying with ASTM C387, Type M may be used.

B. Concrete: Conform to Division 03: Cast-in-place concrete for concrete and reinforcing.
   1. Strength: 3,000-PSI minimum 28-day compressive strength.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Contractor shall thoroughly examine Project site conditions for acceptance of duct and manhole installation to verify conformance with Manufacturer and Specification tolerances. Do not commence with installation until all conditions are made satisfactory.

3.02 EARTHWORK

A. Excavation and backfill: Conform to Division 31, Earthwork.

B. Excavation for underground electrical structures: Conform to elevations and dimensions indicated within a tolerance of plus or minus 0.10 foot; plus a sufficient distance to permit placing and removal of concrete formwork, installation or services, other construction and for inspection.

1. Excavate, by hand, areas within drip-line of large trees. Protect the root system for damage and dry-out. Maintain moist conditions for root system and over exposed roots.
with burlap. Paint root cuts of 1 inch in diameter and larger with emulsified asphalt tree paint.

2. Take care not to disturb bottom of excavation. Excavate by hand to final grade just before concrete reinforcement is placed.

C. Trenching: Excavate trenches for electrical installation as follows:
1. Excavate trenches to the uniform width, sufficiently wide to provide ample working room and a minimum of 6 to 9 inches clearances on both sides of raceways and equipment.
2. Excavate trenches to depth indicated or required.
3. Limit the length of open trench to that in which installations can be made and the trench backfilled within the same day.
4. Where rock is encountered, carry excavation below required elevation and backfill with a layer of crushed stone or gravel prior to installation of raceways and equipment. Provide a minimum of 6 inches of stone or gravel cushion between rock bearing surface and electrical installations.

D. Trenching for concrete encased ducts:
1. After excavation of the trench, stakes shall be driven in the bottom of the trench at 4-foot intervals to establish the grade and routing of the duct bank.
2. Pitch the trench uniformly towards manholes or both ways from high points between manholes for the required duct line drainage. Avoid pitching the ducts toward building wherever possible.
3. The walls of the trench may be used to form the sidewalls of the duct bank provided that the soil is self-supporting and that concrete envelope can be poured without soil inclusions. Forms are required where the soil is not self-supporting.
4. After the concrete encased duct has sufficiently cured, the trench shall be backfilled to grade with earth.

E. Backfilling and filling: Place soil materials in layers to required sub-grade elevations for each area classification, using materials and methods specified in Division 31: Earthwork.
1. Under building slabs, use drainage fill materials.

3.03 CONDUIT AND DUCT INSTALLATION

A. Install duct lines in accordance with Manufacturer's written instructions, as indicated on the Drawings and as specified herein.

B. Application:
1. Direct burial ducts: Schedule 40, minimum 24-inches below finished grade.
2. Concrete encased ducts: Type EB or DB, minimum 30 inches below finished grade.
3. Below building slab-on-grade: Schedule 40, minimum 4-inches below bottom of slab except that bends and penetrates through floor slab shall be PVC coated galvanized rigid steel.
4. Below roads and paved surfaces:
   a. Schedule 80, minimum 36-inches below finished grade.
   b. Concrete encased type EB or DB, minimum 30 inches below finished grade.
5. Penetrations of building and equipment slabs: Schedule 80.

C. Slope duct to drain towards manholes and away from building and equipment entrances. Pitch not less than 4-inches per 100-feet. Curved sections in duct lines shall consist of long
sweep bends with a minimum radius of 25-feet in the horizontal and vertical directions. The use of manufactured bends is limited to building entrances and equipment stub-ups.

D. Underground conduit stub-ups to inside of building and exterior equipment shall be PVC insulated rigid steel.

E. Make joints in ducts and fittings watertight according to Manufacturer’s instructions. Stagger couplings so those of adjacent ducts do not lie in the same plane.

F. Terminate duct lines at handholes with end bells spaced 10-inches on center for 5-inch ducts and varied proportionately for other duct sizes. Change from regular spacing to end-bell spacing 10-feet from the end bell without reducing duct line slope and without forming trap in the line. Grout end bells into manhole walls from both sides to provide watertight entrance.

G. Separation between direct buried duct lines shall be 3-inches minimum for like systems and 12 inches minimum between power and signal ducts.

H. Concrete encased ducts:
   1. Duct lines shall consist of single or multiple duct assemblies encased in concrete. Ducts material throughout the installation.
   2. Rigid PVC spacers shall securely support and maintain uniform spacing of the duct assembly a minimum of 3-inches above bottom of trench during the concrete pour. Spacer spacing shall not exceed 5-feet.
   3. Provide non-ferrous tie wires to prevent displacement of the ducts during pouring of concrete.
   4. Separate ducts 3-inches for like systems and 6-inches between power and signal ducts.

I. For direct burial installations install continuous warning strip of heavy gage plastic imprinted “electrical ducts below”, approximately 12-inch wide at 12-inches above ducts.

J. Mandrel all ducts upon completion of installation and prior to pulling cables.

3.04 HANDHOLE AND PULL BOX INSTALLATION

A. Install handholes in accordance with Manufacturer’s written instructions, as indicated on Drawings and as specified herein.

B. Handholes shall be installed flush with finished grade or surface. Install on a level 6-inch bed of well-tamped gravel or crushed stone.

C. Orientation of handholes shall be coordinated in advance with Landscape Architect and arranged to minimize connecting duct bends and deflections.

3.05 FIELD QUALITY CONTROL

A. Testing: Demonstrate capability and compliance with requirements upon completion of installation of underground duct and structures.
   1. Duct integrity: Rod ducts with a mandrel 1/4-inch smaller in diameter than internal diameter of ducts. Where rodding indicates obstructions in ducts, remove the obstructions and retest.

3.06 CLEANING

A. Pull brush through full length of ducts. Use round bristle brush with a diameter 1/2-inch greater than internal diameter of duct.

B. Clean internal surfaces of handholes. Remove foreign material.

END OF SECTION
SECTION 32 12 16
PART 1 - GENERAL

1.1. SECTION INCLUDES

1.1.1. Asphalt concrete pavement.
1.1.2. Aggregate base course.
1.1.3. Paving accessories as specified.

1.2. REFERENCES

1.2.1. State of California, Department of Transportation (CalTrans), Standard Specifications.
1.2.2. ASTM D 1188 - Test Method for Bulk Specific Gravity and Density of Compacted Bituminous Mixtures
1.2.3. ASTM D1557 - Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³).
1.2.4. ASTM D 2170 - Test Method for Kinematic Viscosity of Asphalts (Bituminous)
1.2.5. ASTM D 2172 - Test Method for Quantitative Extraction of Bitumen from Bituminous Paving Mixtures

1.3. SUBMITTALS

1.3.1. Mix Design: Submit asphalt mix design prepared by a certified laboratory, selected by Owner and acceptable to Owner, for review and approval.
1.3.2. Accompanying mix design, submit materials certificates signed by material producer and Contractor, certifying that each material item complies with, or exceeds, specified requirements.

2. PART 2 - PRODUCTS

2.1. AGGREGATE BASE COURSE MATERIAL

2.1.1. Provide "Class 2 Crushed Aggregate Base" per Section 26, CalTrans Standard Specifications.

2.2. ASPHALTIC CONCRETE PAVEMENT MATERIALS

2.2.1. Asphaltic Concrete Pavement Mixture:

2.2.1.1. Mix Characteristics:

2.2.1.1.1. Vehicular Paving: Type A, 1/2 inch maximum, medium, per Sections 39 and 92, CalTrans Standard Specifications.

2.2.1.2. Asphaltic concrete pavement shall be produced at a commercial central mixing plant.
2.2.2. Tack Coat: ASTM D 977 Emulsified Asphalt.

2.2.3. Herbicide: Provide approved herbicide, tinted for visual identification, non-flammable formulation, and complying with all current California and EPA environmental regulations.


2.2.5. Crack filler:

2.2.5.1. Cracks less than 1/2 inch in width: GuardTop Crackfiller or equal.

2.2.5.2. Cracks 1/2 inch or greater in width: #4 Sheet mix asphalt.

2.3. OTHER MATERIALS

2.3.1. 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 of the Architect.

2.4. DESIGN CRITERIA

2.4.1. General:

2.4.1.1. All improvements shall be constructed per the referenced standards, the contract documents, and as specified in this section.

2.4.1.2. Where criteria shown on drawings or specified in this specification exceed that of the referenced standards, the more stringent criteria shall apply.

3. PART 3 - EXECUTION

3.1. SURFACE CONDITIONS AND PREPARATION

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.

3.1.1.2.1. Verify subgrade is compacted as specified in Section 31 00 00 and 31 23 33.

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.

3.1.2. Preparation:

3.1.2.1. Provide all staking and field engineering required to implement the work as shown on the drawings.
3.1.2.2. Protect all stakes and benchmarks. Replace all stakes and benchmarks damaged during the course of construction at no cost to Owner.

3.1.2.3. Set grade stakes using instrument technology, at maximum 50 foot grid interval at areas with gradients greater than 2 percent.

3.1.2.4. Set grade stakes, using instrument technology, at maximum 25 foot grid interval at areas with gradients less than 2 percent.

3.1.2.5. Provide all equipment of such type, function and design as required to achieve specified values.

3.2. APPLICATION OF SOIL TREATMENTS

3.2.1. Herbicide Treatment:

3.2.1.1. Apply in strict accordance with Manufacturer's recommendations.

3.2.1.2. Conform to all applicable and current regulations, including CAL-OSHA, air quality and environmental requirements.

3.2.1.3. Do not apply herbicide within a minimum distance of two feet from planted areas.

3.2.1.4. If requested by Architect, provide written certification of purchase and application of herbicide.

3.3. PLACEMENT OF AGGREGATE BASE COURSE

3.3.1. Deliver base course to site as uniform mixtures.

3.3.2. Spread each layer in one operation, free from pockets of coarse or fine material, and in compliance with Section 39, CalTrans Standard Specifications.

3.3.2.1. Where asphalt paving is installed to replace existing on-site locations, match existing base thickness.

3.3.3. Application:

3.3.3.1. Where the required thickness is 0.5 foot or less, spread and compact base in one layer.

3.3.3.2. Where the required thickness is more than 0.5 foot, spread and compact base material in two or more layers of approximately equal thickness. The maximum compacted thickness of any one layer shall not exceed 0.5 foot, or less if compaction cannot be obtained with 0.5 lift.

3.3.4. Each layer shall be spread and compacted in a similar manner. When vibrating or other acceptable types of special compacting equipment are used, the entire course may be placed in one layer, provided the ability of such equipment to achieve acceptable compaction to the full layer depth is demonstrated.

3.3.5. No thin layers of fine materials shall be added to the top layer of the subbase or base course in order to meet the grade.
3.4. BASE COURSE COMPACTION AND PROTECTION

3.4.1. Compact base course material to not less than 95 of the maximum laboratory density as determined by ASTM D-1557.

3.4.2. Remove damaged base course to subgrade and place, grade and compact new base course in settled, eroded, and wetted areas to specified tolerances.

3.4.3. Where completed base course areas are disturbed by subsequent construction operations or adverse weather, remove base course in damaged areas to subgrade, and place and compact new base course to required density prior to further construction.

3.5. PREPARATION FOR PAVING

3.5.1. Apply tack coat to vertical faces of existing or previously constructed bituminous pavement, curbs, gutters, slab edges, and all structures to be in actual contact with the bituminous pavement.

3.5.2. Coat surfaces of catch basin frames with oil to prevent bond with asphalt pavement. Do not tack coat these surfaces.

3.5.3. Prior to applying the tack coat, sweep or otherwise clean surface free of dust or other foreign material.

3.5.4. Protect all surfaces not required to receive tack coat from any inadvertent application.

3.5.5. Do not place tack coat when air temperature in the shade or the roadbed temperature is below 50 degrees F, or during rain, fog, or other adverse weather conditions.

3.5.6. After application of tack coat, allow sufficient time for complete separation of asphalt and water before paving operations begin. Do not leave tack coat exposed overnight. Apply tack coat to only those surfaces as will be paved in the same day.

3.5.7. Asphalt Pavement Crack Preparation:

3.5.7.1. All asphalt cracks shall be cleaned, prepared and filled prior to application of tack coat.

3.5.7.2. All vegetation shall be removed from cracks and blown clean with compressed air.

3.5.7.3. Cracks shall be treated with specified soil sterilizer prior to placement of filler material.

3.5.7.4. Cracks shall be completely free of any moisture before application of filler. Sufficient amount of crack filler shall be used to ensure a level surface after filler is cured.

3.5.7.5. Multiple coats may be required, within Manufacturer’s recommendations.

3.5.7.6. Asphalt pavement cracks less than 1/2 inch wide shall be filled with rubberized crack filler as specified.

3.5.7.7. Asphalt pavement cracks 1/2 inch wide or larger shall be filled with #4 sheet mix asphalt.
3.6. PLACEMENT OF ASPHALTIC CONCRETE PAVEMENT


3.6.2. Do not place asphaltic concrete paving when the air temperature in the shade or the roadbed temperature is below 50 degrees F, or during rain, when the base course surface is wet, or during other adverse weather conditions.

3.6.3. Place asphalt pavement as required to provide compacted depth as indicated on the plans, in a continuous operation. Place inaccessible and small areas by hand.

3.6.3.1. Where asphalt paving is installed to replace existing on-site locations, install in compacted thickness to match existing paving, or a minimum of 3-inches.

3.6.4. Place asphalt in single or multiple lifts per Section 39-6, CalTrans Standard Specifications.

3.6.5. Ensure joints made during paving operations are straight, clean, vertical and free of broken or loose material. Carefully make joints to insure a continuous bond between old and new pavement, or between successive day's work. Provide a continuous bond between adjoining work.

3.7. ROLLING

3.7.1. Monitor temperatures of the asphalt concrete mixture as delivered to the site and during laydown to insure conformance with Section 39-6, CalTrans Standard Specifications.

3.7.2. Roll and compact to specified density in accordance with Section 39-6, CalTrans Standard Specifications.

3.7.3. Compact asphalt paving course to 95 percent of the maximum laboratory density, as obtained with the California Kneading Compactor, per California Test 304.

3.7.4. Perform hand tamping in areas not accessible to rolling equipment.

3.8. FIELD QUALITY CONTROL

3.8.1. Testing and inspection of asphaltic concrete mix and asphalt pavement will be performed at Contractors cost by a testing laboratory retained by the Contractor and acceptable to the Owner. The testing laboratory, except for the contract relationship required for this project, shall have no financial or fiduciary relationship with Contractor or paving installer.

3.8.2. Thickness Cores:

3.8.2.1. Provide 1 core test per each 5,000 square feet to verify compacted thickness.

3.8.3. Density Tests:

3.8.3.1. Provide field density tests indicating compliance with Section 39, CalTrans Standard Specifications based on use of properly calibrated nuclear asphalt testing device.

3.8.3.2. Provide density tests based on ASTM D 1188 for laboratory analysis of asphalt cores.
3.8.3.3. In the event of disputes over in-place density, conduct tests based on ASTM D 1188 with test samples taken at such frequency as directed by Architect.

3.8.4. Surface smoothness, thickness and level.

3.8.4.1. Maintain surface free of gouges, ridges and ruts, with a uniform and consistent finish.

3.8.4.2. Maintain line and profile shown to tolerance of 1/4 inch plus/minus, in any 10 feet, non-cumulative.

3.8.4.3. Maintain asphalt pavement free from depressions exceeding 1/8 inch when measured with a 10 foot straight-edge.

3.8.5. Flood Test:

3.8.5.1. Flood test paving prior to application of seal coat.

3.8.5.2. Where water ponds in excess of 1/8 inch in an area greater than 2 feet in any direction, repair or replace as directed by Architect to provide proper drainage.

3.9. PAINT STRIPING AND MARKING

3.9.1. Conform to Section 32 17 23 of this Project Manual.

3.10. PROTECTION

3.10.1. After final rolling, do not permit vehicular traffic on pavement until it has cooled to atmospheric temperature and hardened, but in no case less than 8 hours.

3.10.2. Erect barricades in accordance with requirements of Division 1 to protect paving from traffic until mixture has cooled in accordance with the specifications.

3.10.3. Do not use completed paving surface for storage of construction vehicles or construction materials.

END OF SECTION
1. **PART 1 - GENERAL**

1.1. **SECTION INCLUDES**

1.1.1. Concrete paving and walkways.

1.1.2. Curbing/gutters, and related concrete improvements.

1.2. **REFERENCES**

1.2.1. Organization and Trade Standards

1.2.2. Standard Specifications for Public Works Construction, latest edition, //State of California, Department of Transportation (CalTrans), Standard Specifications,// as adopted by local jurisdictional authority, including amendments.


1.2.4. Local jurisdictional and agency engineering and public works regulations and standards.

1.2.5. Regional Standard Drawings, current edition, with all local agency amendments.

1.2. **SUBMITTALS**

1.2.1. Mix Design/Materials List:

1.2.1.1. Submit concrete mix design prepared by a certified batch plant or laboratory, selected by Contractor and acceptable to Owner, for review and approval.

1.2.1.2. Accompanying mix design, submit materials certificates signed by material producer and Contractor, certifying that each material item complies with, or exceeds, specified requirements.

1.2.2. **Mock-up:**

1.2.2.1. Prior to installing any concrete paving, construct, at an approved location on-site, an individual mock-up showing each concrete paving finish specified and shown on drawings. Mock-up shall include sealant joint preparation. Each finish shall be 4’ x 4’ minimum. Obtain Architect’s approval of mock-up.

1.2.2.2. All concrete paving shall match approved mock-up.

1.2.2.3. Remove mock-up after completion of work and dispose off-site.

1.3. **PUBLIC AGENCY STANDARDS**

1.3.1. Perform all paving and related structures and devices indicated as public agency standards in accordance with the standard plans and specifications of that agency.
1.3.2. Where paving is constructed in public streets or rights of way, construct in accordance with the standard plans and specifications of the authority having jurisdictions and in the presence of a representative of that agency.

1.3.3. Secure and pay for all necessary permits for work performed under conditions which exist in 1.5.2 above. The Owner will pay for associated inspection fees.

1.3.4. Upon completion of the work, provide the Architect with written certification of acceptance of work by the governing agency having jurisdiction.

2. PART 2 - PRODUCTS

2.1. DESIGN CRITERIA

2.1.1. General:

2.1.1.1. All improvements shall be constructed per the referenced standards, the contract documents, and as specified in this section.

2.1.1.2. Where criteria shown on drawings or specified in this specification exceed that of the referenced standards, the more stringent criteria shall apply.

2.2. CAST-IN-PLACE CONCRETE

2.2.1. General:

2.2.1.1. All concrete shall be transit mixed, complying with ATSM C94.

2.2.1.2. All concrete shall be supplied from a single source, using a single cement supplier.

2.2.1.3. All cement shall be portland cement, Type II, low alkali per ASTM C150, and produced within the United States.

2.2.2. Product Characteristics: Paving/Flatwork/Ramps/Stairs:

2.2.2.1. Compressive Strength: 3250 psi. Strength selected for durability. Concrete is non-structural, and does not require special inspection.

2.2.2.2. Combined Aggregate Grading:

2.2.2.2.1. Class C per Standard Specification Section 201-1.3.2 //Sections 73 and 90, CalTrans Standard Specifications.

2.2.2.2.2. Aggregate shall be non-reactive per ASTM C 289, and shall comply with ASTM C33, Table 3, Class 4M.

2.2.2.3. Cement Content: 560 pounds per cubic yard concrete

2.2.2.4. Slump: 4 inch maximum

2.2.2.5. Water-Cement Ratio: 0.55 maximum.

2.2.2.6. Finish: Per Section 303-5.5.2 of "Standard Specifications," //Section 51, CalTrans Standard Specifications,// and with flatwork finishes as defined in this Section and per Drawings.
2.2.2.7. Flatwork Finish:

2.2.2.7.1. *Paving Type CP-1*: Broom finish per paragraph 3.2.3.5 of this Section.

2.2.2.7.2. *Paving Type CP-2*: Broom finish per paragraph 3.2.3.5 of this Section.

2.2.2.7.3. *Paving Type CP-3*: Imprinted finish per paragraph 3.2.3.5 of this Section.

2.2.2.7.4. *Paving Type CP-4*: Exposed Aggregate finish per 3.2.3.5 of this Section.

2.2.2.7.5. *Paving Type CP-5*: Exposed Aggregate finish per 3.2.3.5 of this Section.

2.2.2.8. Integral Color Admixture: Scofield Chromix or equal.

2.2.2.8.1. *Paving Color A*: Natural cement gray.

2.2.2.8.2. *Paving Color B*: Scofield Chromix XXXXXX admixture.

2.2.2.8.3. *Paving Color C*: Scofield Chromix XXXXXX admixture.

2.2.2.8.4. *Paving Color D*: Natural cement gray.

2.2.2.8.5. *Paving Color E*: Scofield Chromix XXXXXX admixture.

2.2.2.9. Color Hardener: Bomanite (No substitution), Heavy Duty, French Gray.

2.2.2.10. Release Agent: Bomachron (No substitution), Release Agent.

2.2.2.11. Surface Retarder: Scofield or equal Lithotex Top Surface Retarder."

2.2.3. Product Characteristics: Curbing, gutters, related drainage components.

2.2.3.1. Compressive Strength: 2500 psi

2.2.3.2. Combined Aggregate Grading:

2.2.3.2.1. Class C per Standard Specification Section 201-1.3.2 //Section 73 and 90, CalTrans Standard Specifications.

2.2.3.3. Cement Content: 520 pounds per cubic yard concrete

2.2.3.4. Slump: 4 inch maximum

2.2.3.5. Finish: Per Section 303-5.5.2 of "Standard Specifications," //Section 51, CalTrans Standard Specifications,// and with flatwork finishes as defined in this Section and per Drawings.

2.2.3.6. Water-Cement Ratio: 0.55 maximum.

2.2.4. Product Characteristics: Exposed Aggregate Paving/Flatwork:

2.2.4.1. Compressive Strength: 3000 psi
2.2.4.2. Aggregate:

2.2.4.2.1. As supplied by San Gabriel, Combined Grading D per Standard Specification Section 201-1.3.2, //Sections 73 and 90, CalTrans Standard Specifications//except modified to 90-100 percent passing 3/4 inch sieve.

2.2.4.2.2. Aggregate shall be non-reactive per ASTM C 289, and shall comply with ASTM C33, Table 3, Class 4M.

2.2.4.2.3. Sand: Clean, hard washed natural sand.

2.2.4.3. Cement Content: 520 pounds per cubic yard concrete.

2.2.4.4. Slump: 3 inch maximum.

2.2.4.5. Water-Cement Ratio: 0.55 maximum.

2.2.4.6. Finish: See 3.2 below.


2.2.4.8. Retarder: L.M. Scofield Lithotex Top Surface Retarder, no substitution.

2.3. CHEMICAL STAIN

2.3.1. Metallic salts in water based solution, with acidic properties; Patina Stain by QC Construction Products www.qcconprod.com.

2.4. PAVING BASE

2.4.1. Where shown on drawings, provide crushed aggregate base per Section 200-2.2.1 of the "Standard Specification" //Section 26, CalTrans Standard Specifications.

2.5. REINFORCING STEEL

2.5.1. Deformed bar: Comply with Section 03 20 00 and per Drawings.

2.5.2. Where deformed bar reinforcing not shown, provide welded wire fabric, flat sheet stock, 6x6-W2.9xW2.9 or approved equivalent, per ASTM A-185, at all concrete paving conditions.

2.5.3. Provide polyethylene closed end sleeve or approved alternate at expansion joint dowels.

2.6. EXPANSION JOINT MATERIAL

2.6.1. Expansion Joint Material: W. R. Meadows or equal, Sealtight Fiber filler, full depth of slab, matching profile, 1/2 inch thickness or as shown on drawings.

2.6.2. Expansion Joint Material - Radius Conditions: W. R. Meadows or equal, Sealtight Ceramar flexible foam resilient filler, full depth of slab, 3/8 inch thickness or as shown on drawings.

2.6.3. Joint Cap: W. R. Meadows or equal, SealTight Snap Cap, size required for expansion material.
2.7. WEAKENED PLANE JOINTS AND SCORELINES

2.7.1. Saw-cut, Sof-Cut, or tooled joint technique, with maximum tooled radius edge of 1/8”.

2.7.2. No “zip-strip joint” products and technique permitted.

2.8. CURING AND SEALING COMPOUNDS

2.8.1. Curing Compound:

2.8.1.1. Provide Burke Aqua Resin, with fugitive dye, and complying with ASTM C309, Type 1-D at all natural color concrete curbing and non-paving applications.

2.8.1.2. Provide Scofield Lithochrome Colorwax curing compound, VOC compliant formulation, at all integral colored and imprinted color hardened concrete paving.

2.8.2. Cure and Sealing Compound:

2.8.2.1. Provide Burke Spartan-Cote WB, complying with ASTM C309, Type 1-A and B, at natural color exterior concrete paving designated as CS-1.

2.9. SEALANTS

2.9.1. Provide sealants complying with Section 07 90 00, at locations specified or as shown on drawings.

2.10. STEP NOSING TREATMENT

2.10.1. Where cast in place groove nosing shown on drawings, provide Wooster, www.wooster-products.com, or equal, WP-70 slip resistant epoxy coating, contrasting color as selected by Architect from standard line.

2.10.2. Where cast in place aluminum nosing shown on drawings, provide Balco, www.balcousa.com, or equal, Series DXH-330, Type 1 anchor, contrasting color as selected by Architect from standard line, with factory stretch formed radius as shown on drawings.

2.11. SLIP RESISTANT FINISH

2.11.1. Provide Sonneborn, www.chemrex.com/sonneborn, or equal, FRICTEX NS aluminum oxide finish surfacer, at locations specified or as shown on drawings.

2.12. OTHER MATERIALS

2.12.1. 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 of the Architect.

3. PART 3 - EXECUTION

3.1. SURFACE CONDITIONS

3.1.1. Inspection:
3.1.1.1. Prior to all work of this section, carefully inspect the installed work of all other trades and verify that all such work is complete to the point where this installation may properly commence.

3.1.1.2. Verify that concrete pavement 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. CONCRETE PAVING INSTALLATION

3.2.1. Preparation:

3.2.1.1. Verify sub-grade, base material, conduit, and all other embedded items are properly located in relation to concrete paving. Secure all embedded items against displacement during pour.

3.2.1.2. Verify all grades for pitch and fall prior to pouring pavements.

3.2.1.3. Verify that all cross-fall and ramp criteria comply with all accessibility regulations, including Title 24 requirements.

3.2.1.4. Verify compaction of existing subgrade complies with criteria specified in Section 31 22 00 and 31 23 23.

3.2.1.5. Notify inspector 48 hours prior to placing concrete. Obtain inspectors approval of subgrade, forming and embedded items prior to placing.

3.2.2. Forming:

3.2.2.1. Install forms in accordance with specified tolerances.

3.2.2.2. Stake rigidly in place at maximum intervals of 4 feet on center. Secure so as to prevent displacement during pouring and finishing process.

3.2.2.3. Install stretched wires or other device to provide form displacement indication.

3.2.2.4. Thoroughly clean forms, removing debris, coatings and foreign matter. Coat forms with approved bond breaker, suitable for use on integral colored concrete without staining or discoloration. Place sand bed over existing paving receiving new concrete paving.

3.2.3. Placement:

3.2.3.1. Prepare subgrade as specified.

3.2.3.1.1. Scarify subgrade to a depth of 12 inches.

3.2.3.1.2. Water, mix and aerate as necessary to moisture condition within range of 1 percent below to 3 percent above optimum moisture content.
3.2.3.1.3. Compact upper 12 inches to a minimum relative compaction of 95 percent based on ASTM D 1557.

3.2.3.1.4. See Sections 02213 and 02223 for related compaction requirements.

3.2.3.1.5. Dampen sub-grade 24 hours prior to placing concrete.

3.2.3.1.6. Dampen forms as required to tighten joints and cracks in forming material.

3.2.3.2. Install concrete paving per Section 303-5 of the "Standard Specifications", //Section 40, CalTrans Standard Specifications,// as specified, and as shown on drawings.

3.2.3.2.1. Provide minimum slab thickness of 4 inches, unless noted otherwise,

3.2.3.2.2. Install natural color concrete in separate pour from imprinted color hardened concrete.

3.2.3.2.3. Install integral color concrete per Scofield recommendations.

3.2.3.2.4. Install imprinted color hardened concrete per Bomanite recommendations.

3.2.3.3. Install all curbing, cross gutters, and related improvements per Section 303-5 of the "Standard Specifications", //Section 40, CalTrans Standard Specifications,// as specified, and as shown on drawings. Where machine formed curbing is provided, tolerances and joint control specified for fixed form construction shall be met.

3.2.3.4. Provide reinforcing in accordance with Section 03 20 00 and 03 30 10.

3.2.3.4.1. Install deformed bar reinforcing on approved concrete or plastic supports. Install in accordance with Section 03 20 00.

3.2.3.4.2. Drill existing concrete as shown on drawings for dowel embeds.

3.2.3.4.3. Extend reinforcing bar at expansion joints on each side of joint. Sleeve one side.

3.2.3.4.4. Where deformed bar reinforcing not shown, provide wire mesh reinforcing on approved concrete or plastic supports. Use of "Hook and Pull" method of reinforcing placement not acceptable. Lap all mesh minimum 12" at edges.

3.2.3.5. Broom Finish – CP-1 and CP-2:

3.2.3.5.1. Float and steel trowel surface to required slopes and planes.

3.2.3.5.2. Apply broom texture, transverse to direction of pedestrian travel, and using a stiff wire or nylon bristle broom.
3.2.3.5.3. Unless specified otherwise, provide medium broom texture at locations shown on drawings. At ramp surfaces (surfaces exceeding 5 percent slope in direction of travel), provide heavy broom texture.

3.2.3.5.4. Obtain approval of finish texture by Architect for various applications.

3.2.3.6 Imprinted Color Hardened Concrete – CP-3:

3.2.3.6.1. Float and wood float surface to required slopes and planes.

3.2.3.6.2. Apply Bomanite Color Hardener evenly to plastic surface at rate recommended by manufacturer. Apply in minimum of two passes or shakes. Float after each pass, and steel trowel only after final floating.

3.2.3.6.3. Apply Bomachron release agent to steel troweled surface.

3.2.3.6.4. Imprint concrete surface in Bomanite Granite Setts pattern, 6 inch x 6 inch square. Align all continuous joints at pattern points. Limit imprint depth to 1/4 inch maximum amplitude. Where space limitations and abutting construction preclude use of pattern tool, hand tool and texture surface to match.

3.2.3.6.5. Apply specified curing compound as recommended by manufacturer.

3.2.3.7 Exposed Aggregate Finish Concrete – CP-4 and CP-5:

3.2.3.7.1. Place and consolidate concrete as required to fill all voids and form spaces. Do not use a grate tamper.

3.2.3.7.2. Float surface to required slopes and planes

3.2.3.7.3. Finish with steel trowel. After concrete has achieved initial set, score and edge as specified.

3.2.3.7.4. Apply surface retarder to all surfaces designated to receive exposed aggregate finish in accordance with manufacturers Application Instruction T-303-03.

3.2.3.7.5. Wash off retarder within 16 hours to expose aggregate. Remove sufficient surface to expose coarse aggregate to a depth of 1/8 inch.

3.2.3.7.6. Apply specified curing compound as recommended by manufacturer.

3.2.3.7.7. After minimum curing period as recommended by manufacturer, remove residual curing compound with approved products. Rinse surface, apply diluted Lithochrome Floor Cleaner, rinse and allow to dry.

3.2.3.8 Acid Etched Finish:

3.2.3.8.1. Float and steel trowel surface to required slopes and planes.
3.2.3.8.2. Protect surfaces not receiving acid finish.

3.2.3.8.3. Clean surface with bristle broom.

3.2.3.8.4. Apply diluted muriatic acid solution. Let stand on surface until desired texture is achieved.

3.2.3.8.5. Flood surface with clean water to remove solution and neutralize acid solution. Take care not to allow water to stand on areas not to receive acid finish.

3.2.3.8.6. Brush area with bristle broom to remove excess material and solution.

3.2.3.8.7. Re-treat areas as required to achieve uniform texture to match approved sample.

3.2.3.9. Stair Tread Nosing:

3.2.3.9.1. Install cast-in-place stair tread nosing treatment, as shown, at each tread. Extend the width of tread minus 2 inches each side.

3.2.3.9.2. Coat cast-in-place stair tread nosing treatment with specified epoxy coating, in accordance with manufacturers recommendations. Mask line to provide aligned edge. Do not fill joints.

3.2.3.10. Stained Concrete Finish:

3.2.3.10.1. Verify that concrete has cured at least 28 days and that non-compatible liquid curing materials were not used.

3.2.3.10.2. Thoroughly clean surfaces by sweeping, pressure washing or scrubbing using a rotary floor machine. Detergents approved by stain manufacturer may be used. Thoroughly rinse with clean water to remove all cleaning residue.

3.2.3.10.3. Protect surrounding landscaping and adjacent surfaces from overspray or residue run-off. Mask as required.

3.2.3.10.4. Organize work in small work sections to control coverage, wet edge, overlaps and to assure that surfaces wet with colorant are not tread upon.

3.2.3.10.5. Apply chemical stain a minimum of 2 coats at the rate of 200-400 SF per gallon using a pressurized sprayer, followed by working of the stain into the concrete using a stiff nylon bristle brush in a circular motion. Avoid puddling and lap marks. Allow 4 hours drying time between coats. Do not rinse between coats.

3.2.3.10.6. Wet scrub surface after second coat of stain to remove residue and salts. Thoroughly rinse with clean water.

3.2.3.10.7. After concrete has dried, apply sealer in accordance with manufacturer's recommendations.
3.2.3.11. Miscellaneous Finish:

3.2.3.11.1. Float and steel trowel surface to required slopes and planes.

3.2.3.11.2. At areas within pedestrian traffic paths, apply very light uniform sack or float finish texture, sufficient to remove surface paste. Do not expose aggregate.

3.2.3.11.3. Obtain approval of finish texture by Architect.

3.2.3.12. Tile Substrate Finish:

3.2.3.12.1. At areas designated to receive mortar bed for ceramic tile detectable warning surface, float and steel trowel surface to required slopes and planes.

3.2.3.12.2. Provide light float finish texture.

3.3. JOINT TREATMENT

3.3.1. Provide expansion joints at locations shown on drawings, and as follows:

3.3.1.1. Beginning and end of curves in curbs and curbs and gutter assemblies, and at 60 feet on center.

3.3.1.2. Where paving is adjacent to walls, bollard or column penetrations, or footings.

3.3.1.3. At pavement plazas and fields, approximately 20 feet on center each way, and as necessary to limit area to a maximum of 400 square feet.

3.3.1.4. At 25 feet on center in linear walkways.

3.3.1.5. Tool all edges adjacent to expansion material with maximum 1/8 inch radius tool.

3.3.1.6. Remove joint cap. Provide bondbreaker tape at surface of joint material cover cap.

3.3.1.7. Provide sealant and backer rod assembly per Section 07 90 00 and as shown on drawings.

3.3.1.8. Provide construction joints only at expansion joints.

3.3.2. Provide control (weakened plane) joints at locations shown on drawings, and as follows:

3.3.2.1. At curbs, curb and gutter assemblies, and cross gutters at 20 feet on center maximum. Where concrete pavement occurs adjacent to curb, align curb and pavement joints.

3.3.2.2. At pavement plazas and fields, approximately 10 feet on center each way, and as necessary to limit area to a maximum of 100 square feet.

3.3.2.3. At pavement areas at all re-entrant corners and at changes in direction.
3.3.2.4. Provide control (weakened plane) joints by saw cutting method, hand held jointing tools, or by use of SOF-CUT equipment. Use of zip-strip not acceptable.

3.3.2.5. Provide maximum 1/8 inch edge radius at all joints. Where saw-cut joint technique selected, grind cut edge to create 1/8 inch beveled edge.

3.3.2.6. Extend control joints a minimum of 1-1/4 inch below surface, or 1/4 the thickness of the curb or pavement, whichever is greatest. Provide hand-cutters, tooled joints or other approved tools for conditions where equipment cannot continue cutting to outside edge.

3.3.2.7. Schedule cutting control joints as necessary to avoid raveling edge, but as necessary to avoid shrinkage cracking of pavement.

3.4. CONCRETE CURING AND SEALING

3.4.1. General:


3.4.1.2. Provide wind barriers and other screening as necessary to avoid rapid drying.

3.4.1.3. Cure all integral color and imprinted color hardened concrete with Lithochrome curing wax, applied as directed by Scofield.

3.4.2. Alternate Method:

3.4.2.1. All natural colored slabs may be water cured by means of fine mist spray. Maintain in damp condition for a period of seven (7) days after pouring.

3.5. FIELD QUALITY CONTROL

3.5.1. Flood Test:

3.5.1.1. Provide flood test of all gutters and paving as directed by Architect.

3.5.1.2. Where ponding occurs, or where drainage rate is less than that established by original design, replace all defective concrete. Remove concrete to the nearest joint line.

3.5.2. Tolerances:

3.5.2.1. Level: 3/16 inch plus or minus, at any point, measured along a 10 foot straight edge.

3.5.2.2. Adjacent surfaces: 1/8 inch maximum difference at any point between adjacent concrete pours or between paving and adjacent paving materials.

3.5.2.3. Joint Alignment: 1/16 inch deviation from adjacent joint.

3.5.2.4. Line: 1/4 inch, plus or minus, deviation from a straight line in any 10 foot length, non-cumulative.
3.5.2.5. Final elevations shall comply with grades as shown on drawings, to a tolerance of plus or minus 0.25 inch.

3.5.2.6. Tolerances do not permit violation of dimensions or grade and slopes relationships required by code or jurisdictional authority. Adjust work as required to comply with such requirements.

3.5.3. Appearance:

3.5.3.1. Remove and replace concrete not matching approved mock-up, concrete not complying with specified tolerances, and concrete with the following defects.

3.5.3.1.1. Inconsistent texture.

3.5.3.1.2. Irregular or misaligned direction of texture.

3.5.3.1.3. Concrete with spalled or raveled control or expansion joints.

3.5.3.1.4. Concrete exhibiting splotching or discoloration in surface including discoloration due to "carbonation".

3.5.3.1.5. Concrete exhibiting cracking, including shrinkage cracking, where cracks are located between joint pattern.

3.5.3.2. Use of patching mortar for repair of edge defects is subject to acceptance of final color and texture by Architect. Use of patching mortar not acceptable for repair of defective exposed aggregate finished concrete.

END OF SECTION
SECTION 32 17 23

PAVEMENT MARKINGS

1. PART 1 - GENERAL

1.1. SECTION INCLUDES

1.1.1. Pavement marking for vehicular traffic control and direction on asphalt and concrete surfaces.

1.2. REFERENCES

1.2.1. State of California, Department of Transportation (CalTrans), Standard Specifications, latest edition.


1.3. SUBMITTALS

1.3.1. Submit in accordance with Section 01 33 00.

1.3.2. Product Data: Provide complete list of proposed materials including manufacturer's technical literature for Architect's review.

1.3.3. Shops Drawings: Provide Shop Drawing diagrams of graphics proposed for use in pavement marking, including proposed size and location.

2. PART 2 - PRODUCTS

2.1. DESIGN CRITERIA

2.1.1. All improvements shall be constructed per the referenced standards, the improvement drawings, and as specified in this section.

2.1.2. Where criteria shown on drawings or specified in this specification exceed that of the referenced standards, the more stringent criteria shall apply.

2.2. PAVEMENT MARKING PAINT

2.2.1. Product Characteristics:

2.2.1.1. Provide paint specifically formulated for use as pavement marking in automobile areas.

2.2.1.2. Provide striping in size and multiple colors as selected by Architect, and as follows:

2.2.1.2.1. At all pavement markings associated with accessibility for the disabled, provide Federal Blue 15090 per FS 595B color as defined in Title 24, Part 2, CCR, 4 inch width. Provide accessible aisle markings at 36 inches on center.
2.2.1.2.2. Provide red color at fire lane curbs and striping, with message "FIRE LANE - DO NOT BLOCK".

2.2.1.2.3. Provide white striping at parking space markings, 4 inch width.

2.2.1.2.4. Provide directional arrows, white color, size as shown on drawings.

2.2.1.2.5. Provide a minimum of four colors in deep saturated hues at play court paving graphics. Provide striping with 2 inch width, unless noted otherwise.

2.2.1.3. Paint products shall comply with Section 84, CalTrans Standard Specifications. Paint manufacturer shall provide written certification of conformance to standard.

3. **PART 3 - EXECUTION**

### 3.1. SURFACE CONDITIONS

3.1.1. Inspection:

3.1.1.1. Prior to all work of this section, carefully inspect the installed work of all other trades and verify that all such work is complete to the point where this installation may properly commence.

3.1.1.2. Verify pavement 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. PREPARATION

3.2.1. Secure the Architect's approval of graphics design and layout prior to start of application, including compliance with accessibility standards of Title 24.

3.2.2. Secure Fire Marshal approval of all striping and marking of curbs, pavement, and related signage.

3.2.3. Accessible parking spaces shall be marked according to CBC Section 1129B.4.

3.2.4. Verify that concrete curing compound and asphalt seal coat compound has become completely inert prior to painting. Remove by approved means for those areas where compound is still active.

### 3.3. INSTALLATION

3.3.1. Using proper masking, stencils, and application equipment recommended for the purpose by the manufacturer of the approved paint, apply the approved paint in strict accordance with its manufacturer's recommendations and Section 84, CalTrans Standard Specifications.
3.3.2. A minimum of ten (10) days shall elapse between seal coat application and pavement marking on asphaltic concrete.

3.3.3. Repaint markings damaged by construction traffic.

3.3.4. Install fire lane curb markings at locations required by Fire Marshal or at 20 feet on center, whichever is more restrictive.

3.3.5. Install markings within 1/2 inch tolerance. Maintain width to a tolerance of plus/minus 1/4 inch.

END OF SECTION