Peralta Community College District

Project Manual for:

Bid No. 17-18/32

LANEY COLLEGE SMART CLASSROOMS PH. 2
Project Number: 2486

Located at:
900 Fallon Street, Oakland, CA 94607
April 20, 2018

Peralta Community College District
Department of General Services
Antoine Mehoulley
Director of Network Services, Project Manager
(510) 587-7871

TEE COM
1333 Broadway Suite 601
Oakland, California 94612

Bid No.: 17-18/32
Advertisement Date: 4-20-18 & 4-27-18
Bid Date: May 11, 2018 2pm
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END OF DOCUMENT
**Notice Inviting Bids**

1.01 **Notice Inviting Bids:** Owner will receive sealed Bids at Peralta Community College District, in the lobby of the Purchasing Department, 501 5th Avenue, Oakland, CA 94606 until **2 p.m. on May 11, 2018** for the following public work:

**Laney College Smart Classrooms Ph. 2**  
900 Fallon Street, Oakland, CA 94607

**Project Description:**

Provide and install new classroom audiovisual systems in accordance with the Construction Documents prepared by TEECOM. The system is designed around Extron to match existing systems already installed on the campus. Exact requirements vary depending on classroom type but typical components include (but are not limited to) the following: one short throw interactive projector and one short throw non-interactive projector per room, document camera, audiovisual cabinets, assistive listening system, wireless microphone system, DVD/VCR, speakers and pan/tilt/zoom cameras for video conferencing and lecture archiving. The scope of work also includes installation of all low-voltage and High-voltage cabling and projectors.

The project shall be completed within **120 Calendar days (final completion)** from the Notice to Proceed (NTP).

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

*(Available for purchase)*

East Bay Blue Print 1745 14th Ave, Oakland, CA 94606 (510)261-2990
www.eastbayblueprint.com

*(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
1.02 **Bid shall be received** at 501 5th Avenue. For information pertaining to the Bidding Documents, please contact **John Hiebert**, District Buyer.

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

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

1.03 **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.

1.04 **Mandatory Pre-Bid Site Visit:** PCCDD will conduct a Mandatory Pre-Bid Conference and Site Visit at 1:00 PM on April 30, 2018 in room T-850 at Laney College, 900 Fallon Street, Oakland 94607. The Pre-Bid Conference and Site Visit will last approximately two hours.

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

1.06 **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 “C-10” and “C-7” 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 **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.

2.03 **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.

2.04 **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.

END OF DOCUMENT
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
- 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.
- 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
- 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.
- 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 Antoine Mehouelley, (510) 587-7871 to schedule an appointment.

1.03 Bidder Questions and Answers
- Bidders must direct all questions about the meaning or intent of Bidding Documents to Owner in writing, via email to John Hiebert (jhibert@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.
- 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
- 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
- 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

Instructions to Bidders  00 2113 - 3
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 6 325 (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
LANEY COLLEGE SMART CLASSROOMS PH. 2

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: Laney College Smart Classrooms Ph. 2, at 900 Fallon Street, Oakland, CA 94607, Project No. 2486, Bid No. 17-18/32

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>
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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:
# BID PRICE

Bid items are described in Section 01 1100 (Summary of Work).

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>ESTIMATED QUANTITY</th>
<th>UNIT PRICE</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>All Work of Contract Documents other than Work separately provided for under other Bid items</td>
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<td>3.</td>
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<td><strong>TOTAL</strong></td>
<td></td>
<td>TOTAL BID PRICE</td>
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</table>

Total Bid Price:

_______________________________________________________________________________

(Total Bid Price in 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
NAME OF BIDDER: ____________________________________________________________

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

____________________________________________________________________________________

(Place of Incorporation, if Applicable) (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)
Officers Authorized to Sign Contracts
__________________________________________ (Name/Title)
__________________________________________ (Name/Title)
__________________________________________ (Name/Title)

Telephone Number(s):
__________________________________________ (Area Code) (Number)
__________________________________________ (Area Code) (Number)

Fax Number(s):
__________________________________________ (Area Code) (Number)
__________________________________________ (Area Code) (Number)

Date of Bid:
__________________________________________

END OF DOCUMENT
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. 2486, Bid No. 17-18/32 Laney College Smart Classrooms Ph. 2

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 20 00 (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

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).

**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:**

Bidder Registration Form
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: _________________________________________________

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

Carrier: _____________________________________________________________
Address: ____________________________________________________________
Phone and Fax: _______________________________________________________
Policy Number: _______________________________________________________
Policy Limits: $ ____________________________
A.M. Best Rating: ____________________________________________________

BIDDER CERTIFIES, UNDER PENALTY OF PERJURY, THAT THE FOREGOING INFORMAION 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>
<th>PWC Registration No.</th>
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(Bidder to attach additional sheets if necessary)

END OF DOCUMENT
STATEMENT OF QUALIFICATIONS FOR CONSTRUCTION WORK

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 Qualification 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 consort 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 bold), 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 _____
   - 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
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>
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</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: ____________________________
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
LANEY COLLEGE SMART CLASSROOMS PH. 2

DOCUMENT 00 4519

NON-COLLUSION AFFIDAVIT

PUBLIC CONTRACT CODE §7106

NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

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
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)

END OF DOCUMENT
LANEY COLLEGE SMART CLASSROOMS PH. 2

DOCUMENT 00 5100

NOTICE OF AWARD

Dated ________________________________

TO: ________________________________

ADDRESS: ________________________________

CONTRACT NO.: ________________________________

CONTRACT FOR: Peralta Community College District,
Laney College Smart Classrooms Ph. 2
900 Fallon Street, Oakland, CA 94607

The Contract Sum of your contract is ________________________________Dollars ($____________________).

1. Three 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 three 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 three 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 2 copies of the Project Manual (including Specifications and Drawings) and 2 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 Antoine Mehouelly, (510) 587-7871. Questions regarding bonds and insurance may be directed to Antoine Mehouelly.
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
THIS AGREEMENT, dated this [date] day of [Month], [201____], by and between [Name of Contractor] whose place of business is located at [Address of Contractor] (“Contractor”), and Peralta Community College District acting under and by virtue of the authority vested in Owner by the laws of the State of California.

WHEREAS, Owner, by its Resolution No. [insert number] adopted on the [date] day of [Month, Year] awarded to Contractor the following Contract:

Project No. 2486, Bid No. 17-18/32

Laney College Smart Classrooms Ph. 2
at
900 Fallon Street, Oakland, CA 94607

NOW, THEREFORE, in consideration of the mutual covenants hereinafter set forth, Contractor and Owner agree as follows:

ARTICLE 1 - SCOPE OF WORK OF THE CONTRACT

1.01 Work of the Contract
A. Contractor shall complete all Work specified in the Contract Documents, in accordance with the Specifications, Drawings, and all other terms and conditions of the Contract Documents.

1.02 Price for Completion of the Work
A. Owner shall pay Contractor the following Contract Sum (Contract Sum) for completion of Work in accordance with Contract Documents as set forth in Contractor’s Bid, attached hereto.
B. The Contract Sum includes all allowances (if any).

ARTICLE 2 - COMMENCEMENT AND COMPLETION OF WORK

2.01 Commencement of Work
A. Contractor shall commence Work on the date established in the Notice to Proceed.
B. Owner reserves the right to modify or alter the Commencement Date.

2.02 Completion of Work
A. Contractor shall achieve Substantial Completion of the entire Work within 90 Days from the Commencement Date.
B. Contractor shall achieve Final Completion of the entire Work 120 Days from the Commencement Date.

ARTICLE 3 - PROJECT REPRESENTATIVES

3.01 Owner’s Project Manager
The Chancellor (or his/her designee) shall act as Owner’s Representative in all matters relating to the Contract Documents.

3.02 Owner’s Chancellor on behalf of its Board of Trustees, and in accordance with District Board Policies and Administrative Procedures, shall have final authority over all matters pertaining to the Contract Documents and shall have sole authority to modify the Contract Documents on behalf of
Owner, to accept work, and to make decisions or actions binding on Owner, and shall have sole signature authority on behalf of Owner. The Chancellor, at his/her discretion, may delegate some portion of Chancellor’s authority to Owner’s Vice Chancellor of General Services or other representative.

3.03 Contractor’s Project Manager
A. Contractor has designated [_______ or other] as its Project Manager to act as Contractor’s Representative in all matters relating to the Contract Documents.

3.04 Architect/Engineer
A. TEECOM furnished the Plans and Specifications and shall have the rights assigned to Architect/Engineer in the Contract Documents.
B. Architect/Engineer has designated ___________________________ as its project manager, to act as its representative for receiving and making communications authorized under the Contract Documents.

ARTICLE 4 - LIQUIDATED DAMAGES FOR DELAY IN COMPLETION OF WORK

4.01 Liquidated Damage Amounts
A. As liquidated damages for delay Contractor shall pay Owner five hundred dollars ($500.00) for each Day that expires after the time specified herein for Contractor to achieve Substantial Completion of the entire Work, until achieved.
B. As liquidated damages for delay Contractor shall pay Owner five hundred dollars ($500.00) for each Day that expires after the time specified herein for Contractor to achieve Final Completion of the entire Work, until achieved.

4.02 Scope of Liquidated Damages
A. Measures of liquidated damages shall apply cumulatively.
B. Limitations and stipulations regarding liquidated damages are set forth in Document 00 7200 (General Conditions).

ARTICLE 5 - CONTRACT DOCUMENTS

5.01 Contract Documents consist of the following documents, including all changes, Addenda, and Modifications thereto:

<table>
<thead>
<tr>
<th>Division</th>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTRODUCTORY INFORMATION</td>
<td>00 01 01</td>
<td>Title Page</td>
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<tr>
<td></td>
<td>00 01 10</td>
<td>Table of Contents</td>
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<td>00 01 15</td>
<td>Drawing List</td>
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<td>BIDDING REQUIREMENTS</td>
<td>00 11 13</td>
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<td>00 21 13</td>
<td>Instructions to Bidders</td>
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<tr>
<td>BID FORMS AND BID SUBMITTALS</td>
<td>00 41 13</td>
<td>Bid Form</td>
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<td></td>
<td>00 43 13</td>
<td>Bond Accompanying Bid</td>
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<td>00 43 14</td>
<td>Bidder Registration Form</td>
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<td>00 43 30</td>
<td>Subcontractors List</td>
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<tr>
<td></td>
<td>00 45 13</td>
<td>Statement of Qualifications</td>
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<td></td>
<td>00 45 19</td>
<td>Non-Collusion Affidavit</td>
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<td></td>
<td>00 45 46</td>
<td>Bidder Certifications</td>
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### CONTRACT FORMS

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<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>00 51</td>
<td>Notice of Award</td>
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<tr>
<td>00 52</td>
<td>Agreement</td>
</tr>
<tr>
<td>00 61 13.13</td>
<td>Construction Performance Bond</td>
</tr>
<tr>
<td>00 61 13.16</td>
<td>Construction Labor and Material Payment Bond</td>
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<tr>
<td>00 62 90</td>
<td>Escrow Agreement for Security Deposits in Lieu of Retention</td>
</tr>
<tr>
<td>00 63 25</td>
<td>Substitution Request Form</td>
</tr>
<tr>
<td>00 65 00</td>
<td>Release of Claims</td>
</tr>
<tr>
<td>00 65 36</td>
<td>Guaranty</td>
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### CONDITIONS OF THE CONTRACT

<table>
<thead>
<tr>
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<tr>
<td>00 72</td>
<td>General Conditions</td>
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<td>00 73</td>
<td>Labor Compliance Program</td>
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<tr>
<td>00 7316</td>
<td>Supplementary Conditions</td>
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<td>00 73 39</td>
<td>Small Local Business Enterprise</td>
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<td>00 73 80</td>
<td>Apprenticeship Program</td>
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<tr>
<td>00 82 50</td>
<td>Project Labor Agreement</td>
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<tr>
<td>00 91 13</td>
<td>Addenda</td>
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### DIVISION 01 - GENERAL REQUIREMENTS

<table>
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<tr>
<th>Code</th>
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<tr>
<td>01 11</td>
<td>Summary of the Work</td>
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<tr>
<td>01 20</td>
<td>Measurement and Payment</td>
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<td>01 26</td>
<td>Modification Procedures</td>
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<tr>
<td>01 31 19</td>
<td>Project Meetings</td>
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<tr>
<td>01 32 30</td>
<td>Progress Schedules and Submittals</td>
</tr>
<tr>
<td>01 33 00</td>
<td>Submittals</td>
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<td>01 42</td>
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<td>Temp Facilities and Controls</td>
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<td>01 77</td>
<td>Commissioning and Contract Closeout</td>
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<td>01 81 13</td>
<td>Environmentally Sustainable Procurement Construction</td>
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### DIVISION 27 – AUDIO VIDEO

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<tr>
<th>Code</th>
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<tr>
<td>27 41</td>
<td>Integrated Audiovisual Systems</td>
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### ATTACHMENTS

<table>
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<tr>
<th>Attachment</th>
<th>Description</th>
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<tbody>
<tr>
<td>A</td>
<td>Laney Survey Report</td>
</tr>
</tbody>
</table>

### LIST OF DRAWINGS

- **SMART CLASSROOM AV SYSTEMS PH 2 FORUM** AV1.5
- **SMART CLASSROOM AV SYSTEMS PH 2 TECH LABS** AV1.7
- **SMART CLASSROOM AV SYSTEMS PH 2 THEATER** AV1.6
- **SMART CLASSROOM AV SYSTEMS PH 2 TYPE 1 LAYOUT** AV1.1
- **SMART CLASSROOM AV SYSTEMS PH 2 TYPE 2 LAYOUT** AV1.2
- **SMART CLASSROOM AV SYSTEMS PH 2 TYPE 3 LAYOUT** AV1.3
- **SMART CLASSROOM AV SYSTEMS PH 2 TYPE 4 LAYOUT** AV1.4
5.02 There are no Contract Documents other than those listed above. The Contract Documents may only be amended, modified or supplemented as provided in Document 00 7200 (General Conditions).

ARTICLE 6 - MISCELLANEOUS

6.01 Terms and abbreviations used in this Agreement are defined in Document 00 7200 (General Conditions) and Section 01 4200 (References and Definitions) and will have the meaning indicated therein.

6.02 It is understood and agreed that in no instance are the persons signing this Agreement for or on behalf of Owner or acting as an employee, agent, or representative of Owner, liable on this Agreement or any of the Contract Documents, or upon any warranty of authority, or otherwise, and it is further understood and agreed that liability of Owner is limited and confined to such liability as authorized or imposed by the Contract Documents or applicable law.

6.03 In entering into a public works contract or a subcontract to supply goods, services or materials pursuant to a public works contract, Contractor or Subcontractor offers and agrees to assign to the awarding body all rights, title and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. §15) or under the Cartwright Act (Chapter 2 (commencing with §16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services or materials pursuant to the public works contract or the subcontract. This assignment shall be made and become effective at the time Owner tenders final payment to Contractor, without further acknowledgment by the parties.

6.04 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, are deemed included in the Contract Documents and on file at Owner's Office, and shall be made available to any interested party on request. Pursuant to California Labor Code §§ 1860 and 1861, in accordance with the provisions of Section 3700 of the Labor Code, every contractor will be required to secure the payment of compensation to his employees. Contractor represents that it is aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and Contractor shall comply with such provisions before commencing the performance of the Work of the Contract Documents.

6.05 This Agreement and the Contract Documents shall be deemed to have been entered into in the County of [___], State of California, and governed in all respects by California law (excluding choice of law rules). The exclusive venue for all disputes or litigation hereunder shall be in the Superior Court for the County of [____].

IN WITNESS WHEREOF the parties have executed this Agreement in quadruplicate the day and year first above written.

CONTRACTOR: [CONTRACTOR'S NAME]

By: ______________________________ (Signature)

Its: _______________________________

Title (If Corporation: Chairman, President or Vice President)

By: ______________________________ (Signature)

Its: _______________________________

Title (If Corporation: Secretary, Chief Financial Officer or Assistant Treasurer)
OWNER:  Peralta Community College District

By:__________________________
    (Signature)

__________________________
    (Print Name)

__________________________
    (Title)
Attest:__________________________
    Secretary

__________________________
    (Print Name)

APPROVED AS TO FORM AND LEGALITY
THIS ____ DAY OF ________, 20____

By:__________________________
    Attorney for Owner

__________________________
    (Print Name)

RESOLUTION NO. _____________________

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

Company:  (Corp. Seal)
Signature:________________________
Name and Title:____________________
Address:__________________________

SURETY

Company:  (Corp. Seal)
Signature:________________________
Name and Title:____________________
Address:__________________________

END OF DOCUMENT
KNOW ALL PERSONS BY THESE PRESENTS:

1.01 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:

Laney College Smart Classrooms Ph. 2

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. The intent of this bond is to comply with the California Mechanic's Lien Law.

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

<table>
<thead>
<tr>
<th>Company:</th>
<th>(Corp. Seal)</th>
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<tbody>
<tr>
<td>Signature</td>
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<tr>
<td>Name</td>
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<tr>
<td>Title</td>
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<tr>
<td>Street Address</td>
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<tr>
<td>City, State, Zip Code</td>
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## SURETY

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END OF DOCUMENT
LANEY COLLEGE SMART CLASSROOMS PH. 2

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) ________________, ("Contractor"), whose place of business is located at ________________________________, and [ ] Owner, as escrow agent OR [ ] (Name of 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 located at Laney College Smart Classrooms Ph. 2, 900 Fallon Street, Oakland, CA 94607 in the amount of $________, dated __________________, 201__ (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 Contract 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.

Escrow Agreement for Security Deposits in Lieu of Retention

00 6290 - 1
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:**

<table>
<thead>
<tr>
<th>Title</th>
<th>Name</th>
<th>Signature</th>
<th>Address</th>
<th>City/State/Zip Code</th>
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</thead>
</table>

**ON BEHALF OF CONTRACTOR:**

<table>
<thead>
<tr>
<th>Title</th>
<th>Name</th>
<th>Signature</th>
<th>Address</th>
<th>City/State/Zip Code</th>
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</thead>
</table>

**ON BEHALF OF ESCROW AGENT:**

<table>
<thead>
<tr>
<th>Title</th>
<th>Name</th>
<th>Signature</th>
<th>Address</th>
<th>City/State/Zip Code</th>
</tr>
</thead>
</table>

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

**OWNER**

<table>
<thead>
<tr>
<th>Title</th>
<th>Name</th>
</tr>
</thead>
</table>

**CONTRACTOR**

<table>
<thead>
<tr>
<th>Title</th>
<th>Name</th>
</tr>
</thead>
</table>
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
PERALTA COMMUNITY COLLEGE DISTRICT
LANEY COLLEGE SMART CLASSROOMS PH. 2

DOCUMENT 00 6325

SUBSTITUTION REQUEST FORM

To: The Peralta Community College District, Owner

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

Substitution Request By: Firm:

<table>
<thead>
<tr>
<th>Transmittal Record</th>
<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>
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<tr>
<td>Contractor to Architect</td>
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<tr>
<td>Owner / Architect to Consultant</td>
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<tr>
<td>Architect to Owner Representative</td>
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<tr>
<td>Owner Representative to Contractor</td>
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</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>
<tbody>
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</tbody>
</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>A.</th>
<th>Does the substitution affect dimensions shown on Drawings? Yes __ / No __. If No, please explain proposed mitigation and why substitution is equivalent to originally specified item:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>B.</th>
<th>Will the undersigned pay for changes to the building design, including engineering and detailing costs caused by the requested substitution? Yes __ / No __. If No, please state reasons explain why substitution is equivalent to originally specified item:</th>
</tr>
</thead>
</table>

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<thead>
<tr>
<th>C.</th>
<th>What effect does the substitution have on other trades? No effect: __ / Some effect __. If substitution will affect other trades, please explain the effect and why substitution is equivalent to originally specified item:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>D.</th>
<th>Will substitution cause change to Project Schedule, or to critical delivery dates? Add? Shorten? If the substitution will add to schedule dates or affect critical activities, please explain why substitution is equivalent to originally specified item:</th>
</tr>
</thead>
</table>

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<thead>
<tr>
<th>E.</th>
<th>Please describe differences between proposed substitution and specified item? Please explain and identify any and all differences, and please explain why substitution is equivalent to originally specified item:</th>
</tr>
</thead>
</table>

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<thead>
<tr>
<th>F.</th>
<th>What is the Cost Differential to Contractor in original specified item and proposed substitution including all mark-ups? [If substitution requested during bid period, skip this question.]</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>G.</th>
<th>Are Manufacturer's guarantees for the proposed item the same as for item specified? Yes <strong><strong>; No</strong></strong>_. If No, please explain why substitution is equivalent to originally specified item:</th>
</tr>
</thead>
</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:______________________________________________________________

Consultant Response:  Owner Representative Response:
o Accepted  o Accepted
o Not Accepted  o Not Accepted
o Accepted As Noted  o Accepted As Noted
o Received Too Late  o Received Too Late

Remarks:___________________________  Remarks:___________________________
By:_______________________________  By:_______________________________

END OF DOCUMENT
LANEY COLLEGE SMART CLASSROOMS PH. 2

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], [20__], 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>
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<tbody>
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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
LANEY COLLEGE SMART CLASSROOMS PH. 2

DOCUMENT 00 6536

GUARANTY

TO: The Peralta Community College District ("Owner"), for construction of the Laney College Smart Classrooms Ph. 2, 900 Fallon Street, Oakland, CA 94607.

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

Guaranty

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<table>
<thead>
<tr>
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<tr>
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<td>2.02 Limited Reliance Permitted On Owner’s Existing Conditions Data</td>
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<td>5.02 Commencement Date Of Contract Time</td>
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<td>6.01 Contractor’s Legal Address</td>
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<td>6.02 Contractor’s Superintendents Or Forepersons</td>
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<td>6.03 Proficiency In English</td>
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<td>6.04 Contractor’s And Subcontractors’ Employees</td>
<td>5</td>
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<td>6.05 Contractor’s Use Of The Site</td>
<td>5</td>
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<td>6.06 Contractor’s Site Office</td>
<td>6</td>
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<tr>
<td>ARTICLE 7 - OWNER’S ADMINISTRATION OF WORK</td>
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<td>7.02 Owner’s Observation Of The Work</td>
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<tr>
<td>8.01 Contractor To Supervise The Work</td>
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<tr>
<td>8.02 Contractor To Maintain Cost Data</td>
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<td>8.03 Contractor To Supply Sufficient Workers And Materials</td>
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<td>8.04 Contractor To Maintain Project Record Documents</td>
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<td>8.06 Contractor To Provide Temporary Facilities And Controls</td>
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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 indentified, 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 to 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, 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.
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 moneys 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.
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 72 00 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 made 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.

C. Contractor shall remedy all damage, injury or loss to any property referred to above in this Article, caused, directly or indirectly, in whole or in part, by Contractor, any Subcontractor, supplier, or any other person or organization directly or indirectly employed by any of them to perform or furnish any Work or anyone for whose acts any of them may be liable. Contractor's duties and responsibility for safety and for protection of Work shall continue until such time as all the Work is completed and Final Acceptance of the Work. Owner and its agents do not assume any responsibility for collecting any indemnity from any person or persons causing damage to Contractor's Work.

D. Contractor shall designate a qualified and experienced safety representative at the Site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs.

E. 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 shall be settled and Owner receives satisfactory evidence to that effect.

F. 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.

15.03 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 thereto, 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.
15.05 Use Of Roadways And Walkways
A. Contractor shall not unnecessarily interfere with use of any roadway, walkway or other facility for vehicular or pedestrian traffic. Before beginning any interference and only with Owner’s prior concurrence, Contractor may provide detour or temporary bridge for traffic to pass around or over the interference, which Contractor shall maintain in satisfactory condition as long as interference continues. Unless otherwise provided in the Contract Documents, Contractor shall bear the cost of these temporary facilities.

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 72 00 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 September 1, 2011.

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 the Department of Industrial Relations. The telephone number is 1-844-522-6734. 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 10am on December 16, 2014 at Conference Room R23, Building R, 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
LANEY COLLEGE SMART CLASSROOMS PH. 2

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

Supplementary Conditions
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 contract 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 SLBE/SELBE</td>
<td>4% of lowest bid</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: ________________________________

_________________________________________  ____________________________
Signed                                        Date

_________________________________________  ____________________________
Printed or typed name                          Title

_________________________________________
Name of Company

Telephone  Fax

00 7339 - 3

Small Local Business Enterprise
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
LANEY COLLEGE SMART CLASSROOMS PH. 2

DOCUMENT 00 8250

PROJECT LABOR AGREEMENT

The full document can be found here:
http://web.peralta.edu/purchasing/files/2012/06/00-8251-PLA-Agreement.pdf

END OF DOCUMENT
LANEY COLLEGE SMART CLASSROOMS PH. 2

DOCUMENT 00 9113

ADDENDA

BID NO. 17-18/32

Peralta Community College District

Laney College Smart Classrooms Ph. 2
900 Fallon Street, Oakland, CA 94607

[DOCUMENT TO BE COMPLETED AS ADDENDA DURING BID PERIOD]

END OF DOCUMENT
LANEY COLLEGE SMART CLASSROOMS PH. 2

SECTION 01 1100
SUMMARY OF WORK

PART 1 – GENERAL

1.01 SUMMARY
A. Section includes Summary of Work and Work Restrictions including:
   1. List of Sections
   2. Work Covered By Contract Documents
   3. Bid Item, Allowances and Alternates
   4. Work Days and Hours
   5. Contractor Use of Site

1.02 WORK COVERED BY CONTRACT DOCUMENTS
A. Work comprises of the installation of smart classroom components at Laney College, 900 Fallon Street, Oakland CA 94607.
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 40 00 [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 BID ITEMS, ALLOWANCES AND ALTERNATES
A. Descriptions of Items on Bid Form 00 4113 (listed by Bid item numbers):
   Bid Item 1 – Base Bid Item #1 is the total for installation of smart classroom components at Laney College
   Bid Item 2 – (Not Used)
B. Bid Alternates (listed by Bid item numbers):
   Bid Item 3 – (Not Used)
C. Bid Allowances (listed by Bid item numbers):
   (Not Used)
1.04 WORK DAYS AND HOURS
A. Work Days and hours: See paragraph B and C.
B. Work at the Site on weekends, holidays, or other than normal business hours is permitted with approval by Owner.
C. Any activity, especially demolition that produces loud disruptive noise shall not be performed between the hours of 8am and 8pm on Monday-Friday. Contractor shall consult with Campus and District staff prior to commencement of potential disruptive noise activities. All other work can be performed during normal working hours. Daytime Saturday and Sunday work is acceptable with permission by the District. Early morning demolition work and cleanup must be completed prior to 8 am.

1.05 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.

PART 2 – PRODUCTS- NOT USED

PART 3 – EXECUTION – NOT USED
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 completion of the item.
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 retainerage 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
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 RFI’s 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 Contact Change Order. If the parties do not agree on the price or time for a CPR, Owner may either issue a CD 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.
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.

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:
   2. 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.
   3. For materials salvaged upon completion of Work, salvage value of materials shall be deducted from cost, less discounts, of materials.
   4. 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.
   5. 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-comforming 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; extra security 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): __________________________________________________________
____________________________________________________________________________________

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REQUESTED CHANGE IN CONTRACT TIME (DAYS)  
(Time Impact Evaluation Enclosed)

By Contractor: ____________________  
Signature: ____________________  
Date: ____________________

Modification Procedures  
01 2600 - 11
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. Contractors 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
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
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 (2007 Edition or latest applicable code) as amended by applicable local ordinances for all construction work.

c. California Plumbing Code (2007 Edition or latest applicable code) as amended by applicable local ordinances for plumbing, sewage disposal and health requirements.

d. California Mechanical Code (2007 Edition or latest applicable code) as amended by applicable local ordinances for all construction work.

e. International Fire Code (2006 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.


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 biphenyls.

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.

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
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.

Temporary Facilities and Controls
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 andpatching 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 matte, 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 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:

<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 residential areas, including hospitals</td>
<td>65</td>
<td>55</td>
</tr>
<tr>
<td>In semi-residential/commercial areas, including hotels</td>
<td>70</td>
<td>60</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, including schools</td>
<td>65</td>
</tr>
<tr>
<td>In commercial areas with no nighttime residency</td>
<td>65</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Affected Industrial Areas</th>
<th>At All Times</th>
</tr>
</thead>
</table>

| All locations | 65 |
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 residential areas, including hospitals</td>
<td>75</td>
<td>65</td>
</tr>
<tr>
<td>In semi-residential/commercial areas, including hotels</td>
<td>75</td>
<td>70</td>
</tr>
<tr>
<td>Affected Commercial Area</td>
<td>At All Times</td>
<td></td>
</tr>
<tr>
<td>In semi-residential/commercial areas, including schools</td>
<td>80</td>
<td></td>
</tr>
<tr>
<td>In commercial areas with no nighttime residency</td>
<td>85</td>
<td></td>
</tr>
<tr>
<td>Affected Industrial Area</td>
<td>At All Times</td>
<td></td>
</tr>
<tr>
<td>All locations</td>
<td>90</td>
<td></td>
</tr>
</tbody>
</table>

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.

1.11 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.

Temporary Facilities and Controls
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
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).

J. Guaranty. Document 00 6536 must be completed and turned into the District Project Manager.

PART 2 - PRODUCTS – NOT USED

PART 3 - EXECUTION – NOT USED

END OF SECTION
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; 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:
SECTION 274116
INTEGRATED AUDIOVISUAL SYSTEMS

PART 1 - GENERAL

1.01 SUMMARY

A. Section includes: Audiovisual systems – presentation systems, control systems, and interface with outer systems. Refer to article 1.04 “System Description” for more information.

B. Base bid work

1. Provide equipment and materials, whether specifically mentioned herein or not, needed for a complete and operating audiovisual systems to satisfy the requirements of this section and related drawings. This specification lists major equipment but not every wire, connector, extender, converter, fastener, etc., needed to complete the work.

2. Provide coordination with electrical work necessary to provision AV equipment with power in areas where equipment is relocated. The work may require relocation of power outlets, or extending power outlets to alternate locations within the same room. Refer to the attached campus survey for overall field conditions.

3. Equipment racks or enclosures:
   a. Plenum enclosures: Provide plenum-rated equipment enclosures, including frame, side panels, top panels, access doors, anchorage and seismic bracing, integrated power outlets and cooling provisions as required.
   b. Provide standard or custom accessories and mount adapters for equipment installed in equipment racks or enclosures as needed to properly mount equipment, power supplies, accessories, components, and the like. Provide cable management to properly route and mind wires, cables, and cords.
   c. Provide power receptacle strips in quantities needed to supply power to the equipment within the rack.
   d. Provide spare rack mounting screws. Determine based on rack mount units (RUs) – 1 spare screw per 2 RU installed, minimum.
   e. Provide bonding for racks, cabinets, equipment, equipment support and cable/wire management to an approved grounding point.

4. Cooling provisions
   a. Provide cooling provisions (means to move heat out of enclosed spaces to prevent temperatures from exceeding equipment manufacturer’s specified maximums). Ensure equipment operates within manufacturer’s cooling guidelines. Provide only code-compliant cooling provisions (e.g., exhausting from one space to another).
   b. In racks, enclosures, millwork, cabinets, and other spaces where equipment will be installed and prone to heat buildup, provide thermostatically-controlled active cooling devices to create adequate airflow through the enclosed space. Examples of active cooling devices include vent fans. At a minimum, ensure airflow by installing active cooling devices or systems such as fans.

5. Provide power controllers (such as an IP power strip connected to the network or controllable through the room control system) to devices that cannot inherently be remotely controlled for power cycling. Verify functional operation for specified control operations.

6. Labeling: Provide labeling for audiovisual system components. The components include, but are not limited to, the following:
   a. Equipment racks and equipment enclosures
b. Rack-mounted equipment and devices: Provide a label on the back of each piece of equipment. If a serial number (of a given piece of equipment) is not visible in a final installed condition, provide a label on the equipment on a visible location duplicating the serial number.

c. Wall-mounted equipment and devices: Provide an equipment label on the back of each piece of equipment. If a serial number (of a given piece of equipment) is not visible in a final installed condition, provide a label on the equipment on a visible location duplicating the serial number.

d. Provide an equipment plate for each piece of equipment.

e. Provide a label for each control that is not inherently labeled, such as those in racks and user spaces.

f. Wires and cables: Provide a cable label at each end of each piece of wire, cable, and cord.

7. Coordination requirements

a. Coordinate with the construction team at large to ensure that equipment and other system components will be installed properly, and that there will be no compromises due to, among other aspects, spatial conflicts or power service incompatibilities.

b. Coordinate with the electrical contractor for power requirements and service connection to the System’s equipment.

c. Coordinate with the telecom contractor and other trades/contractors (as needed) placement of cables and wires when sharing pathways (such as cable tray) with other low voltage systems. Do not place cables and wires into pathways provided by others without permission.

d. Coordinate with the telecom contractor (or Owner) for locations within racks for installing equipment.

e. Coordinate with the Owner (or Owner’s network provider) for network configurations and/or settings required for the System’s proper or correct operation.

C. Related divisions and sections: Consult other divisions where applicable, determine the extent and character of related work. Coordinate the work of this section with, at least but not limited to, the following divisions and sections:

1. Division 0 (for Bidding Requirements, Contract Forms, and Conditions of Contract) and Division 1 (for General Requirements) – provisions listed or specified therein apply to work under this section.

2. Section 270000, “Communications Basic Requirements”

3. Division 26, “Electrical Systems”


D. Products furnished but not installed under this section

1. None

E. Products installed but not furnished by contractor

1. Telephone instruments for classrooms – OFE
   a. The contractor is responsible for providing a 2-post network outlet for an OFE telephone for each classroom.
   b. The contractor is responsible for installing the telephone instrument.
   c. Network switches, with Power over Ethernet (PoE)

2. Telephone patch cable
F. Products specified but not installed under this section

None

G. Products furnished and installed by this contractor, either directly or by subcontracting to a qualified licensed 3rd party:
   1. Rough-in (device boxes, conduits, and related accessories)
   2. Relocation or provision of electrical service (e.g., 120 VAC)
   3. Telecommunication cabling

H. Alternates: Submit a written request for modification to an installation practice desired or required which is contrary to these specifications or drawings. Obtain written approval from the Owner prior to performing modifications.

I. Unit Prices: Submit unit prices, as derived from the quotations in the Schedule of Values, for adjustments to the contract price. Include in unit prices, material, both explicitly specified, as well as additional components required for a complete and functional installation, labor, shipping, tax, markups (overhead, profit, job expenses, bond), labeling, records, and as-built drawing production costs.

1.02 REFERENCES

A. General

1. Codes, standards, and industry manuals/guidelines listed by reference, including revisions by issuing authority, form a part of this specification section to extent indicated. Consider such codes and/or standards a part of this specification as though fully repeated herein.

2. Standards listed are identified by issuing authority, authority abbreviation, designation number, title or other designation established by issuing authority. Standards subsequently referenced herein are referred to by issuing authority abbreviation and standard designation.

3. Reference to codes, standards, specifications and recommendations of technical societies, trade organizations and governmental agencies shall mean that latest edition of such publications adopted and published prior to submittal of the bid unless otherwise specifically stated.

B. Codes: Perform work and furnish materials and equipment under Division 27 in accordance with applicable requirements of the latest edition of governing codes, rules and regulations including but not limited to the following minimum standards, whether statutory or not:

1. California Code of Regulations (CCR):
   a. Title 8, “Industrial Relations”
      1) Chapter 3.22, “California Occupational Safety and Health Regulations (CAL/OSHA)”
   b. Title 24, “California Building Standards Code”
      2) Part 2, “California Building Code” (CBC)
      3) Part 3, “California Electrical Code” (CEC)
      4) Part 11, “California Green Building Standards Code” (CALGeen)"

2. National Fire Protection Agency (NFPA)
   a. NFPA 75, “Protection of Information Technology Equipment”

3. United States Department of Labor (DOL) Occupational Safety and Health Administration (OSHA) Regulations (Standards - 29 CFR)
   a. Part 1910, “Occupational Safety and Health Standards”
   b. Part 1926, “Safety and Health Regulations for Construction”
   b. Part 27, “Miscellaneous Wireless Communications Services”  
   c. Part 68, “Connection of Terminal Equipment to the Telephone Network”  
   d. Part 90, “Private Land Mobile Radio Services”  
5. Other applicable national, state, and local binding building and fire codes  

C. Standards: Perform work and furnish materials and equipment under Division 27 in accordance with the latest editions of the following standards as applicable:  
1. Building Industry Consulting Services International (BICSI):  
   a. Telecommunications Distribution Methods Manual (TDMM)  
   c. Wireless Design Reference Manual (WDRM)  
2. EIA testing standards  
3. National Electrical Contractors Association (NECA):  
4. Telecommunications Industry Association (TIA):  
   a. ANSI/TIA-568-C.0, “Generic Telecommunications Cabling for Customer Premises”  
   b. ANSI/TIA-568-C.1, “Commercial Building Telecommunications Cabling Standards - Part 1 General Requirements”  
   c. ANSI/TIA-568-C.2, “Balanced Twisted Pair Telecommunications Cabling and Components”  
   e. ANSI/TIA-569-B, “Commercial Building Standard for Telecommunications Pathways and Spaces”  
   f. ANSI/TIA/EIA-598-B, “Optical Fiber Cable Color Coding”  
   g. ANSI/TIA-606-B, “Administration Standard for Telecommunications Infrastructure”  
   h. ANSI-TIA-607-B, “Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises”  
   i. ANSI/TIA-758-A, “Customer-Owned Outside Plant Telecommunications Infrastructure Standard”  
   a. NFPA 262, “Standard Method of Test for Flame Travel and Smoke of Wires and Cables for Use in Air-Handling Spaces”  
6. Underwriters Laboratories (UL)  
   a. UL 969, “Marking and Labeling Systems”  
   b. UL 1419, “Professional Video and Audio Equipment”  
   c. UL 60065, “Audio, Video and Similar Electronic Apparatus – Safety Requirements”  
7. InfoComm  
   a. InfoComm 1M, “Audio Coverage Uniformity in Enclosed Listener Areas”  
   c. InfoComm 3M, “Projected Image System Contrast Ratio”  
   d. InfoComm F501 01, “Cable Labeling for Audiovisual Systems”
1.03 DEFINITIONS

A. The definitions of Divisions 00 and 01 shall apply to Division 27 sections.

B. In addition to those definitions of Divisions 00 and 01, the following list of terms as used in this specification defined as follows:

1. “AFF”: Above Finished Floor
2. “As directed”: As directed or instructed by the Owner, or their authorized representative
3. “AHJ”: Authority Having Jurisdiction
4. “Cabling”: installed media ready for electronic or optical signal circuit use; a complete media connection comprised of cables, termination apparatus (patch panels, blocks, connectors), outlets, connecting media (path cord, crossconnects), labeling
5. “CBC”: California Building Code (CCR Title 24 Part 2)
6. “CCR”: California Code of Regulations
7. “CEC”: California Electrical Code (CCR Title 24 Part 3)
8. “Connect”: To install patch cords, equipment cords, crossconnect wire, etc. to complete an electronic or optical signal circuit
9. “Cord”: a length of cordage having connectors at each end. The term “Cord” is synonymous with the term “Jumper” and “Lead”
10. “Engineer”: TEECOM
11. “Furnish”: To purchase, procure, acquire, and deliver complete with related accessories
12. “General Contractor”: Devcon
13. “Identifier”: A unique code assigned to an element of the Telecommunications infrastructure that links it to its corresponding record
14. “Install”: To set in place, join, unite, fasten, link, attach, set up or otherwise connect together and test before turning over to the Owner, parts, items, or equipment supplied by contractor or others. Make installation complete and ready for regular operation
15. “IOR”: Inspector Of Record
16. “ISP”: Inside Plant
17. “LED”: Light Emitting Diode
18. “MSDS”: Material Safety Data Sheets
19. “NEC”: National Electrical Code (NFPA 70)
20. “NEMA”: National Electrical Manufacturers Association
22. “NIC”: Not In Contract (work or equipment)
23. “OFCI”: Owner-furnished contractor-installed; coordinate the integration of components furnished by the Owner; provide mounting hardware, cable, connectors, etc. to ensure proper integration of OFCI equipment
24. “OFE”: Owner Furnished Equipment
25. “OSP”: Outside Plant
27. “Owner’s Representative”: Tracy Martin
29. “Pigtail”: a length of cordage having connectors at one end
30. “Provide”: To furnish, transport, install, erect, connect, test and turn over to the Owner, complete and ready for regular operation
31. “UL”: Underwriters Laboratories:
32. “ACEG”: alternating current equipment ground (an example of this is a ground bus within an electrical panel)
33. “Approved Grounding Point”: an approved grounding point is one that satisfies the applicable electrical code and provides a low impedance path to earth. Examples include the following though may manifest in different means: a telecommunications grounding busbar (such as for bonding an equipment rack within a telecom room), the ACEG of the electrical panel serving the equipment requiring bonding to ground (such as for bonding a credenza rack within a conference room), or the ground conductor of a branch circuit (such as for bonding a single piece of equipment).
34. “A/R”: Indicates that the quantity of an item is as required to meet the design criteria indicated in the audiovisual drawings.
35. “A/S”: Indicates that the quantity of an item is as shown on the drawings.
36. “Audience Area”: the portion of a presentation space intended to be occupied by an audience. An audience area includes the primary seating and standing spaces and may include the adjacent circulation spaces. An audience area generally excludes spaces reserved for presenters.
37. “Custom” indicates systems or components the Contractor fabricates based on these specifications and drawings
38. “EDID”: Extended display identification data
39. “HDCP”: High-bandwidth digital content protection
40. “HDMI”: High-definition multimedia interface
41. “OFE”: Owner Furnished Equipment
42. “Or equal” indicates an item that is equal in function and performance to the specified device or system
43. “RU”: rack unit, as defined in EIA/ECA-310
44. “Shall” denotes a mandatory requirement
45. “Should” denotes an advisory statement
46. “SPL”: sound pressure level
47. “THD”: total harmonic distortion
48. “Will” denotes an informative statement
49. “Project”: The scope of work defined by this specification and its related drawings
50. “Software”: Any executable programs, parameter files, user interfaces, or other coded content that are required to operate, control, or maintain the audiovisual systems in this Project
51. “Custom Created Software”: Any software, parameter files, user interfaces, or other coded content created for the control or operation of the audiovisual systems in this Project
52. “Third-party software:” Any programming developed by a party other than the AV Contractor and the Owner to be used to operate, control, or maintain the audiovisual systems in this Project.

53. “System”: The audiovisual components, cabling, and programming incorporated in the descriptions and equipment lists herein.

1.04 SYSTEM DESCRIPTION AND PERFORMANCE REQUIREMENTS

A. General
   1. In circumstances where the specifications and drawings conflict, the drawings govern quantity and the specifications govern quality.
   2. The contract drawings and specifications convey design intent. They are not intended to be used in lieu of shop drawings.

B. ADA compliance: Provide the following:
   1. Accessible control systems
   2. Assistive listening systems -

C. Audio system
   1. Provide echo cancellation for microphones in audio and video conferencing systems.
   2. Program audio system:
      a. Frequency Response: 100 Hz to 12,000 Hz. 3 dB per octave roll off below 100Hz and above 12 kHz.
      b. Total Acoustical Harmonic Distortion: Less than 2% at 90 dBC (1 kHz reference) at four feet (1,220 mm) above finished floor in the middle of the room.
   3. Distributed audio system:
      a. Frequency Response: 125 Hz to 10,000 Hz. 3 dB per octave roll-off below 125 Hz and above 10 kHz.
      b. Total Acoustical Harmonic Distortion: Less than 2% at 85 dBC (1 kHz reference) at four feet (1,220 mm) above finished floor in the middle of the room.
   4. Signal to noise ratio (mixer input to amplifier output): 75 dB from 50 Hz to 15 kHz minimum.
   5. Frequency response with equalizers bypassed: less than ±1 dB from 50 Hz to 12 kHz.
   6. Distortion: less than 0.5% at 1 kHz at the equipment's rated input signal level.
   7. Output levels (in audience areas without objectionable distortion, rattles, or buzzes, employing as test signals several different samples of recorded music and microphones applied at each system input):
      a. Program audio: not less than 95 dB
      b. Speech reinforcement: not less than 85 dB
   8. Hum and Noise: inaudible (below the background noise level of the space) under normal operation observed in audience areas.

D. Video system resolutions
   1. Provide system components with a minimum resolution capability of 1920 X 1080
   2. Provide systems that support the following resolutions: 1,280 x 720, 1,920 x 1,080, 1,920 x 1,200, 3840 X 2160, and 4096 x 2160.
E. Direct-view display systems
   1. Provide displays that have no more than seven defective pixels per quadrant, or per manufacturer’s spec.

F. Wireless systems
   1. Ensure that wireless AV systems do not create radio frequency interference to other systems.
   2. Demonstrate at AV acceptance testing that wireless AV systems are not adversely affected by AV-related nor other radio frequency sources.

G. Control system
   1. Provide user interfaces, such as control panels, that respect ergonomics and varying levels of technical ability among users. Follow these guidelines:
      a. Avoid abbreviations
      b. Size lettering at 1/8" minimum
      c. Maintain background to lettering contrast
   2. Positive logic: Avoid conditions which may cause command synchronization conflicts (i.e., alternate action (toggling) on/off without power reset of feedback. Provide power sensors or other devices where necessary to ensure that positive logic conditions are maintained.
   3. Timing: Prevent two or more commands being sent simultaneously to the same piece of equipment.
   4. Linking: Provide linking of functions to require the fewest number of user actions to effectively control the equipment.
   5. Clearing: Ensure that each media selection clears the previous audio and visual selection (e.g., selecting COMPUTER clears the audio and video section of the previous Blu-ray disk selection).
   6. Defaults: Establish default power-up conditions for the system including device audio levels, warm-up routine, power conditions, switcher status and other default conditions as required by the Owner or Owner's representative.
   7. Volume Memory: Provide easy-to-use memory for volume settings associated with each source device. Unless directed otherwise in this document, provide programming that maintains these settings between alternate selections during each use – through power-on and power-off.
   8. Status indication: Program buttons for both touch panels and pushbutton panels to provide clear status indication using illumination when back-lighting is available or by changing color.
   9. Failsafe: Provide program that ensures that no operation or sequence of operations causes the control system to become inoperable or interferes with further processing, correct operations or execution of commands.

H. Centralized Management Procedure
   1. Provide server-based software for the management of the AV systems deployed in the facility and the District. Include the following:
      a. Help-desk functionality
      b. Enterprise-wide scheduling and monitoring
      c. Time-stamped AV systems data collection for reporting

I. Room types
   1. The audiovisual systems design and documentation are based on standard room types.
   2. Each room to receive audiovisual systems is shown on the drawings with a type designation.
3. For each room, adapt the audiovisual system to best suit the architectural layout such that each room of a certain type is similar to others of its type, with minor layout differences to accommodate architecture.

4. Refer to the drawings and survey for the quantities of each type of room and for specific audiovisual interface information per room.

5. Standards Classroom Types
   a. Type 1 – Flexible, dual projection, extended desktop
   b. Type 2 – Lecture style, dual projection, unified desktop
   c. Type 3 – Lecture style, single projector
   d. Type 4 – Flexible style, single projector

6. Special Classrooms
   a. Forum – Large Venue
   b. Theater – Large Venue
   c. Tech Labs

J. It is possible that certain portions of the system described herein will be ready for use prior to the completion of the entire scope of this specification. The Owner reserves the right to use substantially completed systems without obligation to the Contractor and without implying final acceptance of the systems or equipment so used.

K. Room Functionality Descriptions
   1. Standard Classroom Type 1 – Dual projector, extended desktop
      a. Flexible in configuration, dual projection systems with projector and projection screen, with one projector displaying the main output of the instructor’s laptop and the second projector displaying the extended desktop of the laptop
      b. Technology connection point at the front of the room for an instructor lectern containing:
         1) Connection for laptop, including HDMI with multiple adaptors for DisplayPort, Mini DisplayPort and VGA for legacy support including audio
         2) Document camera
      c. Portable device sharing capability (BYOD)
      d. Supporting AV presentation system, including switching and amplification functions
      e. Ceiling-mounted speakers
      f. Control system, self-contained, with push-button style panel, to control all functions of the AV systems
      g. Assistive listening system as required by code
      h. OFE Telephone installed by light switch bank
   2. Standard Classroom Type 2 – Dual projector, mirrored image
      a. Fixed seating configuration, dual projection systems with projector and projection screen, with both projectors displaying the main output of the instructor’s laptop
      b. Technology connection point at the front of the room for an instructor lectern containing:
         1) Connection for laptop, including HDMI with multiple adaptors for DisplayPort, Mini DisplayPort and VGA for legacy support including audio
         2) Document camera
      c. Portable device sharing capability (BYOD)
      d. Supporting AV presentation system, including switching and amplification functions
      e. Ceiling-mounted speakers
f. Control system, self-contained, with push-button style panel, to control all functions of the AV systems

g. Assistive listening system as required by code

h. OFE Telephone installed by light switch bank

3. Standard Classroom Type 3 – Single projector, wall-mounted speakers
a. Fixed seating configuration, single projection systems with projector and projection screen, with the projector displaying the main output of the instructor’s laptop

b. Technology connection point at the front of the room for an instructor lectern containing:
   1) Connection for laptop, including HDMI with multiple adaptors for DisplayPort, Mini DisplayPort and VGA for legacy support including audio
   2) Document camera

c. Portable device sharing capability (BYOD)

d. Supporting AV presentation system, including switching and amplification functions

e. Wall-mounted speakers

f. Control system, self-contained, with push-button style panel, to control all functions of the AV systems

g. Assistive listening system as required by code

h. OFE Telephone installed by light switch bank

4. Standard Classroom Type 4 – Single projector, ceiling-mounted speakers
a. Flexible in configuration, single projection systems with projector and projection screen, with the projector displaying the main output of the instructor’s laptop

b. Technology connection point at the front of the room for an instructor lectern containing:
   1) Connection for laptop, including HDMI with multiple adaptors for DisplayPort, Mini DisplayPort and VGA for legacy support including audio
   2) Document camera

c. Portable device sharing capability (BYOD)

d. Supporting AV presentation system, including switching and amplification functions

e. Ceiling-mounted speakers

f. Control system, self-contained, with push-button style panel, to control all functions of the AV systems

5. Special Classroom – Forum
a. Fixed seating configuration, dual projection systems with projector and projection screen, with one projector displaying the main output of the instructor’s laptop and the second projector displaying the extended desktop of the laptop

b. Technology connection point at the front of the room for an instructor lectern containing:
   1) Connection for laptop, including HDMI with multiple adaptors for DisplayPort, Mini DisplayPort and VGA for legacy support including audio
   2) Document camera

c. Portable device sharing capability (BYOD)

d. Supporting AV presentation system, including switching and amplification functions

e. Wall-mounted speakers, utilizing existing locations through the space

f. Control system, self-contained, with push-button style panel, to control all functions of the AV systems

g. Assistive listening system as required by code
h. OFE Telephone installed by light switch bank or as directed by Owner

6. Special Classroom – Theater
   a. Fixed seating configuration, single projection systems with projector and custom projection screen, with the projector displaying the main output of the instructor’s laptop
   b. Technology connection point at the front of the room for an instructor lectern containing:
      1) Connection for laptop, including HDMI with multiple adaptors for DisplayPort, Mini DisplayPort and VGA for legacy support including audio
      2) Document camera
   c. Portable device sharing capability (BYOD)
   d. Supporting AV presentation system, including switching and amplification functions
   e. Wall-mounted speakers, utilizing existing locations through the space
   f. Control system, self-contained, with push-button style panel, to control all functions of the AV systems
   g. Assistive listening system as required by code
   h. OFE Telephone installed by light switch bank or as directed by Owner

7. Special Classroom – Tech Labs
   a. Fixed seating configuration, dual projection systems with projector and projection screen, with one projector displaying the main output of the instructor’s laptop and the second projector displaying the extended desktop of the laptop
   b. Technology connection point at the front of the room for an instructor lectern containing:
      1) Connection for laptop, including HDMI with multiple adaptors for DisplayPort, Mini DisplayPort and VGA for legacy support including audio
      2) Document camera
   c. Portable device sharing capability (BYOD)
   d. Supporting AV presentation system, including switching and amplification functions
   e. Wall-mounted speakers, utilizing existing locations through the space
   f. Control system, self-contained, with push-button style panel, to control all functions of the AV systems
   g. Assistive listening system as required by code
   h. OFE Telephone installed by light switch bank or as directed by Owner

1.05 SUBMITTALS

A. Submit required submittals to the Owner in the quantities and formats as required under the general contract. In the absence of requirements, provide as described in the following with reference to quantity and format.

B. Failure to comply with requirements in part or whole shall constitute grounds for rejection.

C. Resubmittals: For resubmittals, provide a cover letter with the resubmittal that lists the action taken and revisions made to each product in response to the Engineer’s submittal review comments. Lack of this actions-taken cover letter shall constitute grounds for non-review and/or rejection of resubmittal packages.

D. Bid submittal: Submit bids in accordance with project’s overall bidding requirements, and include the following requirements of this section.
   1. Site visit: As possible, visit the site before submitting your bid. Coordinate site visit arrangements with the District. Include date of site visit in the bid submittal.
2. Firm information and qualifications: Include detailed information about the firm, including but not limited to the following, in the bid:
   a. Firm’s history – how long the firm has been in business, how long the firm has offered audiovisual systems integration services, etc.
   b. Annual revenue for the three most current years
   c. Bonding capacity and bonding insurance agent contact information
   d. Three successfully completed projects of similar scope within the past 24 months. For each project, include the owner/client name, contact information (person’s name, position, and telephone number or email address), project location, type of systems installed, total contract amount, date completed, and services included (e.g., engineering, installation, integration, maintenance, etc.).
   e. Industry affiliations
   f. Advanced certifications (CTS-I/D, DMC-D/E, ACE-D/I/P/RMS, XTP, etc.)
   g. Manufacturer certifications
   h. Contractor license number for the state where the work will take place
   i. Union affiliation(s)

3. Personnel and certifications: Include information on key personnel in the bid.
   a. Include résumés and certifications for personnel who will be assigned to the project including but not limited to the Project Manager, Systems Engineer, Field Installation Supervisor, Lead Control System Programmer, and other key personnel.
   b. Include résumé(s) of CTS–I (Certified Technology Specialist – Installation) certified personnel
   c. Include résumé(s) of DMC–E (DigitalMedia Certified Engineer) certified personnel.
   d. Include résumé(s) of Q-Sys Level 2 (QSC Certification) certified personnel.
   e. Include other relevant company-held industry, manufacturer, and educational certifications and designations for involved personnel

4. Subcontract information: Indicate in the bid, all subcontractors and their responsibilities and qualifications.

5. Schedule of values: Include a schedule of values in the bid. Break out the schedule of values into three areas – equipment costs, non-equipment costs, and service contract.
   a. Equipment costs: List equipment costs (each piece of equipment), including required modifications and accessories.
   b. Non-equipment costs: List non-equipment costs, such as the following:
      1) General and Administrative: shipping, insurance, and guarantees, etc.
      2) Fees: e-Waste/disposal, permits, etc.
      3) Engineering: design, drawings, run sheets, instruction manuals, etc.
      4) Pre-installation: fabrication, modification, assembly, rack wiring, etc.
      5) Installation: installation, coordination, supervision, testing, etc.
      6) Owner training: training session(s), manuals, etc.

6. Alternates/substitutions:
   a. Submit bids based on the specified equipment. If the bid includes proposed alternates and/or substitutes, separate these from the costs of the equipment as specified and include for alternate equipment full technical information and cut sheets. Proposed alternate equipment will receive consideration if the differences between the specified and alternate/substituted equipment do not depart from the design intent and function of the system and are in the best interests of the Owner. If the inclusion of substituted equipment will result in a different connection configuration than that in the bid documents, include drawings that illustrate how the proposed system would be connected.
   b. Only one substitution for each product specified will be considered.
c. Where products are noted as "or equal", a product of equivalent design, manufacture, and performance will be considered. Submit product data (product information, catalog cuts, pertinent test data, etc.) to substantiate that the product is in fact equivalent to that specified. The burden of proof that the substituted product is equivalent to the specified product rests with the Contractor. Whenever material, process or equipment is specified in accordance with an industry specification (ANSI, TIA, etc), UL rating, or other association standard, present an affidavit from the manufacturer certifying that the product complies with the particular standard specification. When requested by the Engineer, submit supporting test data to substantiate compliance.

d. Manufacturers' names and model numbers used in conjunction with materials, processes or equipment included in the contract documents are used to establish standards of quality, utility and appearance. Materials, processes or equipment that, in the opinion of the Engineer, are equivalent in quality, utility and appearance will be approved as substitutions to that specified when "or equal" follows the manufacturers' names or model number(s).

e. When the Engineer accepts a substitution in writing, it is with the understanding that the Contractor guarantees the substituted product, component, article, or material to be equivalent to the one specified and dimensioned to fit within the construction according to contract documents. Do not provide substituted material, processes, or equipment without written authorization from the Engineer. Assumptions on the acceptability of a proposed substitution, prior to acceptance by the Engineer, are at the sole risk of the Contractor.

f. Approved substitutions shall not relieve the Contractor of responsibilities for the proper execution of the work, or from provisions of the specifications.

g. Pay expenses, without additional charge to the Owner, in connection with substitution materials, processes and equipment, including the effect of substitution on self, subcontractor's or other Contractor's work.

7. System enhancements: Include in the bid recommendations, if any, that will enhance the performance and/or functionality of the system, or will reduce costs without loss of performance/functionality. Recommendations that are of value to the Owner will be taken into consideration in the evaluation of the bids. Make such proposed recommendations as "alternates", with the appropriate cost modifications shown separate and apart from the costs of the system "as specified".

8. Exceptions: In the bid, explain exceptions, if any, to these specifications and related drawings. In the absence of exceptions, these specifications and related drawings are binding in letter and intent.

9. Guarantee compliance with requirements and regulations in effect on the job site. Explicitly state any such non-compliances or conflicts in the bid submittal. The bidder has the responsibility to investigate potential contract, union, and scheduling issues, and to notify the general contractor of such.

E. Pre-construction submittals

1. Product data: Prior to purchase and installation, submit as a PDF file information (such as cut sheets, etc.) for equipment, components, products, etc., that will be installed as part of the work of this section.
   a. Include in the submittal, a Table of Contents, listing equipment, components, products, etc., by room, by system, and/or by other logical designation. A continuous list of all products with no reference to where the products will be installed will be rejected. Incomplete lists will be rejected.
   b. Indicate (arrow, highlight or other designator) on each product’s cut sheet the manufacturer, model/part number, accessories (as applicable), options (as applicable), color (as applicable), and other information to indicate the exact item to be installed. Where this information is not already provided on the cut sheet, manually input this information and a brief description (as applicable).
2. Shop drawings: Submit shop drawings prior to installation and in accordance with the Conditions of Contract and Division 1, including the following.
   a. Prior to the start of work, submit shop drawings and obtain written approval from the Engineer for the shop drawings submittal.
   b. Quantity and Media: Submit shop drawings as described in Division 01. In the absence of requirements given, submit shop drawings as directed in writing either an electronic submittal (preferred) via approved means (email, e-transmit, FTP upload) or four printed and bound sets on bond.
   c. Format:
      1) Use the same sheet size as the contract drawings.
      2) Use the same title block as the contract drawings, modified to include contractor information.
      3) Text: 3/32” - 1/8” high when plotted at full size.
      4) Use identical symbols as those in the contract drawings.
      5) Screen background information.
      6) Plot system components (symbols, outlet, devices, pathways, cable routes, etc.) and text using a heavier line weight sufficient enough to stand out against background information.
    7) Scaling:
       a) Scale floor plans and reflected ceiling plans at 1/8”=1’-0”
       b) Scale enlarged room plans at 1/4”=1’-0”
       c) Scale wall elevations at 1”=1’-0”
       d) Scale rack elevations at 1”=1’-0”
   d. Functional line diagrams for all systems – clearly tag each item with name, manufacturer, and manufacturer's model number (e.g., “Program Amplifier LabGruppen LUCIA 60/2M”) and show the terminal number or input/output designation (e.g., “Mic 1-In”, or “Record Out-Left”).
   e. Provide schematic diagrams of custom circuitry such as receptacle pin numbers and component callouts; show details of custom resistive attenuation and/or combining networks, filters, or pads which may be required in the assembly; show point to point wiring drawings for control system modules and interfaces, and for switches and relays in audio, video, or control systems
   f. Equipment rack elevations and patch panel assignments – clearly and consistently label rack elevations, patch panels, and on equipment controls.
   g. Provide pushbutton and handheld remote control panel layouts – tag each button with function and ID matching installed labels
   h. Factory and custom panels, plates, and designation strips, showing material, finish, color and engraving (exact lettering)
   i. Equipment modifications (if any), including details of modifications that change or void manufacturers’ warranties.
   j. Cable run lists – clearly show at each terminal point the type of connector to be used; include typical wiring details of each connector; note where shields are connected and where they will float to ensure the integrity of the shielding system; indicate cable types and, where appropriate, color codes; assign wire numbers and patch bay locations to every wire and patch point in the drawing
   k. Wattage tap setting per loudspeaker.

3. Touch screen submittal:
   a. Provide a PDF per system containing a page for each menu, submenu, and popup in that system’s user interface. Include menus that are manually triggered and those that automatically appear as the result of events such as the connection of a source device. Ensure that the PDF is unlocked so that the Engineer may annotate it.
b. If the development environment allows, provide an executable menu simulation file or web link for control systems in addition to a PDF-based submittal.

4. Network coordination: Submit as an Excel file or cloud-based collaborative spreadsheet (such as Google Sheets) a list of equipment that will be connected to the network, including but not limited to the following (e.g., spreadsheet column headers):
   a. Item number
   b. Description
   c. Manufacturer
   d. Model/part number
   e. MAC address
   f. IP address type (DHCP or static)
   g. Power-over-Ethernet (PoE) requirements (yes or no)
   h. Specific network and/or subnet configuration requirements
   i. Specific QOS requirements
   j. Anticipated network traffic

5. Testing equipment and procedures:
   a. Submit a list of test equipment, including manufacturer, model number, and description that will be used for testing and adjustment of the installed systems.
   b. Submit testing procedures to be performed during pre-functional testing and acceptance testing, including the minimum acceptable outcome for each test.

F. At the completion of the installation

1. Initial Testing and Tuning Report: After completing initial testing and tuning, checkout, settings, as-built drawings, and operational documentation, submit written notification to the Owner and Architect that initial checkout is complete. Include in this notification a completed Initial Testing and Tuning Report that satisfies the requirements of Part 3. In the Report, document the results for tests performed during initial testing and tuning. Organize the report per room, per system, and per test. Include the testing tools/equipment, manual and automated tests, testing procedures, and expected result per test. If the test equipment stores test results and has the capability to produce reports, also include these reports.

2. Wireless microphones frequencies. Submit a list of wireless microphone frequencies and associated channels used for each microphone and system.

G. Closeout Submittals

1. Acceptance Testing Report: After completing final acceptance testing, final tuning and settings, submit an Acceptance Testing Report that documents the results for tests performed during final testing and tuning. Organize the report per room, per system, and per test. Include the testing tools/equipment, manual and automated tests, testing procedures, and expected result per test. If the test equipment stores test results and has the capability to produce reports, also include these reports. Include the system’s normal settings.

2. As-built drawings: Submit as-built drawings in accordance with the Conditions of Contract and Division 1, including the following.

3. Quantity and Media: Submit as-built drawings as described in Division 01. In the absence of requirements given, submit as-built drawings as directed in writing as electronic files via approved media (or four printed and bound sets on bond, if approved).

4. Format:
   1) Use the same sheet size as the contract drawings.
2) Use the same title block as the contract drawings, modified to include contractor information.

3) Text: 3/32” - 1/8” high when plotted at full size.

4) Use symbols identical to the symbols shown on the contract drawings.

5) Screen background information.

6) Plot system components (symbols, outlet, devices, pathways, cable routes, etc.) and text using a heavier line weight sufficient enough to stand out against background information.

7) Electronic files shall be native format and plotted PDF files. The file names shall include the sheet number.

b. Submit as-built drawings that fully represent actual installed conditions and that incorporate modifications made during the course of construction.

c. Symbols List

d. Diagrams, such as (but not limited to) point-to-point diagrams, block diagrams, riser diagrams, line diagrams, and other diagrams that conceptually describe the system

e. System functional line drawings for all systems; clearly tag each item with name, manufacturer, and manufacturer's model number (e.g., “Program Amplifier Lab.Gruppen LUCIA 60/2M”) and show the terminal number or input/output designation (e.g., “Mic 1-In”, or “Record Out-Left”).

f. Point-to-point wiring diagrams for switches and relays in audio, video, and control systems; point-to-point wiring diagram for control system modules and interfaces

g. Schematic diagrams of custom circuitry such as receptacle pin numbers and component callouts; show details of custom resistive attenuation and/or combining networks, filters, or pads which may be required in the assembly

h. Equipment rack elevations and patch panel assignment drawings. Clearly label the rack elevations, patch panels, and equipment controls.

i. Cable run lists – clearly show at each terminal point the type of connector to be used; include typical wiring details of each connector; note where shields are connected and where they will float to ensure the integrity of the shielding system; indicate cable types and, where appropriate, color codes; assign wire numbers and patch bay locations to every wire and patch point in the drawing

j. Pushbutton and handheld remote-control panel layouts, including tagging each button with function and ID that matches installed labels

k. Factory and custom panels, plates, and designation strips, showing material, finish, color and engraving (exact lettering)

l. Wattage tap setting per loudspeaker.

5. System Operation and Maintenance (O&M) manual:

a. Describe typical procedures necessary to activate each system for full functionality as required under the System Description.

b. Describe normal settings for equalizer, amplifier, signal processing, and user operated controls (as established during system check out) in tabular or pictorial form.

c. Outline a recommended maintenance schedule with reference to the applicable pages in the manufacturer's maintenance manuals. Where inadequate maintenance information is provided by the manufacturer, provide the information necessary for proper maintenance.

d. Outline a recommended plan for a normal maintenance period of at least one year, including a list of necessary and recommended replacement parts.

e. Assume the reader of this manual to be technically competent, but unfamiliar with this particular facility.

f. Submit equipment manufacturers’ operation and maintenance manuals for each piece of equipment.
6. Programming/software:
   a. Submit the project’s control system programming and audio processor configuration files – refer to “Software License” below.

1.06 QUALITY ASSURANCE

A. Audiovisual Contractor requirements: Demonstrate that your firm meets or exceeds the following requirements:
   1. Five years’ experience, minimum, with the design, engineering, assembly, installation, start-up and maintenance of audiovisual systems of similar or greater complexity to those identified in this specification
   2. Provide the necessary professional design, engineering, fabrication, installation, and project management personnel to execute the work of this section, and to guarantee a complete, functional system in compliance with the design intent
   3. Successfully completed in the past 24 months a minimum of three projects of similar scope
   4. Current state contracting license, as required to perform the work under this section
   5. Bondable to 100% of contract value
   6. Be an authorized supplier and installer for equipment listed in this section
   7. Maintain permanent fabrication, service and support facilities within 100 miles of the Project site.

B. Audiovisual Contractor certifications: Demonstrate that your firm has the following certifications:
   1. An InfoComm CTS-I (Certified Technology Specialist-Installation) certified employee to actively manage this project – the Engineer will verify CTS credentials at the InfoComm website.
   2. An Extron Control Specialist-certified employee to be actively involved in the design, implementation and commissioning of systems in this project – the Engineer will verify Control Specialist with Extron.
   3. A QSC Q-Sys Level 2 certified employee to be actively involved in the design, implementation and commissioning of systems in this project – the Engineer will verify Q-Sys credentials with QSC.

C. Manufacturer/equipment supplier requirements: Demonstrate that your firm meets or exceeds the following:
   1. Operate their business for not less than five years

D. Subcontractor quality:
   1. Specifically identify in the bid submission, for Owner, Architect, or Engineer’s approval, all subcontractors that will be used.
   2. Regardless of any subcontract arrangement, your firm will have sole responsibility for the successful implementation of the work in this section.

1.07 PROJECT MANAGEMENT AND COORDINATION

A. Project Management and Coordination Services
   1. Provide a project manager for the duration of the project to coordinate this Work with other trades. Coordination services, procedures and documentation responsibility include, but are not limited to, the items listed in this section.
   2. Review of Shop Drawings Prepared by Other Subcontractors:
      a. Obtain copies of shop drawings for equipment provided by others that require telecommunication service connections or interface with work.
b. Thoroughly review other trades’ shop drawings to confirm compliance with the service requirements contained in the Division 27 contract documents. Document discrepancies or deviations as follows:
   1) Prepare memo summarizing the discrepancy
   2) Submit a copy of the specific shop drawing, indicating via cloud, the discrepancy

c. Prepare and maintain a shop drawing review log indicating the following information:
   1) Shop drawing number and brief description of the system/material
   2) Date of the review
   3) Name of the individual performing the review
   4) Indication if follow-up coordination is required

3. Should existing conditions prohibit construction progress as submitted and approved, coordinate the adjusted installed locations with the other contractors (AV, electrical, etc).

B. Concurrent Installation

1. The network will be installed concurrent with the work of Division 27. Coordinate your work with the Owner’s/network integrator’s work. For example, coordinate scope and dates for rack and cabling (terminations) readiness to allow the network integrator to plan and schedule installation of the network equipment (for example, access switches).

C. Role of the Engineer

1. The Owner has retained the Engineer’s services through construction. During construction, the Engineer will work with and assist the Contractor as follows (in general):
   a. Review product data and shop drawings submittals for general compliance with the contract drawings and specifications.
   b. Provide interpretation and clarification of project contract documents
   c. Reply to (and ‘process’) relevant Requests for Information (RFIs)
   d. Review changes as they arise, and confirm that the proposed solutions maintain the intended functionality of the system.
   e. Interpret field problems for Owner, and translate between Owner and Construction Team.
   f. Review the testing procedures to confirm compliance with industry-accepted practices.
   g. Observe the work for general compliance with the contract documents and to ensure that the installation meets the design intent of the system, and report progress to the Owner.

D. Assign a project manager to this project for the entire duration. They shall oversee the design, submittals, implementation, testing, and close out – the entire process from start to finish. The project manager shall also coordinate this work of this section with other trades.

1.08 DELIVERY, STORAGE AND HANDLING

A. Delivery

1. Do not deliver products to the site until protected storage space is available.
2. Coordinate materials delivery with installation schedule to minimize storage time at jobsite.
3. Deliver materials in manufacturer's original, unopened, undamaged packaging and containers with identification labels (name of the manufacturer, product name and number, type, grade, UL classification, etc.) intact.
4. Immediately replace equipment damaged during shipping at no cost to the Owner, so as not to impact the construction schedule.
B. Storage and Protection
   1. Store materials in clean, dry, ventilated space free from temperature and humidity conditions (as recommended by manufacturer) and protected from exposure to harmful weather conditions.
   2. Comply with manufacturer's storage requirements for each product. Comply with recommended procedures, precautions or remedies as described in the MSDS as applicable.
   3. Maintain factory wrapping or provide a heavy canvas/plastic cover to protect units from dirt, water, construction debris, and traffic.
   4. Storage outdoors covered by rainproof material is not acceptable.
   5. Provide heat where required to prevent condensation or temperature related damage.

C. Handling
   1. Handle materials and equipment in accordance with manufacturer's written instructions. Handle with care to prevent damage, breakage, denting, and scoring.

D. Do not install damaged materials and equipment. Replace damaged equipment at no cost to the Owner.

1.09 WARRANTY

A. Warrant the System for a minimum of one year from the date of system acceptance by the Owner. Honor component warranties per manufacturers’ terms if greater than one year.
   1. Include service as described in 3.13 “Maintenance and Extended Service” in the warranty.

B. Activate manufacturers’ equipment warranties in the Owner’s name. The warranty period shall commence on the date of System Acceptance by the Owner.
   1. In the case of contractor-modified equipment (where the manufacturer's warranty could be voided), warrant such equipment equivalent to that of the original manufacturer.

C. Warrant the Software and version updates – see “Software” below.

1.10 SOFTWARE LICENSE

A. Nondisclosure
   1. During or after the termination of this Agreement, the Owner agrees not to disclose any proprietary information provided by the AV Contractor, to maintain such information as confidential and not use such information provided in Project documents for any purpose other than maintenance and support of in-house systems. This does not apply to any of the information that becomes generally known to the public due to publication or other legal means and through no fault of the Owner.

B. Obligations governing the Software
   1. The AV Contractor shall own the copyright of any custom created software/parameter files (“Software”) and hereby grants the Owner a royalty-free, non-exclusive license to use the Software for use with the audiovisual and other connected systems in this project. This license cannot be transferred.
   2. The Owner shall not rent, loan or re-license rights to use the Software to any third party.
   3. Any Third-party software provided or made available to the Owner by the AV Contractor, but not created by the AV Contractor, is sublicensed to the Owner through the AV Contractor. The AV Contractor agrees that such sublicense is granted with consent of the third-party at no cost to the Owner, and the Owner shall be entitled to use such software under the same terms as the AV Contractor.
4. The AV Contractor and third-party suppliers are not restricted from licensing the Software or any portion thereof to other customers.

5. At acceptance testing, provide the source code for custom created software, applications required to use the source code, descriptions of the required equipment, and instructions detailing the modification and installation of the Software to the Owner.

C. For project and custom Software, the following apply.

1. Provide the source code to the Owner either directly via file transfer or make it available through other means, such as cloud storage, an FTP site, etc. Maintain older versions within a folder structure and make them available to the Owner at the Owner’s request. At the end of the warranty period, release the current and older versions of the source code to the Owner. If the AV contractor ceases to exist during the warranty period, release the source code to the Owner upon termination of the business.

2. Provide the Software in a form suitable for immediate access by the System.

3. The AV contractor grants the Owner the right to modify and to enhance the Software as furnished and licensed under the terms of this Agreement at its own risk and expense, and further agrees such modifications and enhancements developed by the Owner to be the property of the Owner. Any changes to the custom created software parameter files do not affect copyright ownership.

4. During the warranty period, if the Owner discovers that the Software is no longer functioning in the same manner as had been approved at the beginning of the warranty period, they shall document the fault in sufficient detail to allow errors to be reproduced, and they will notify the AV contractor. Within two business days of this notification, update the software, provide or post updated Software files as detailed above, demonstrate that the error has been resolved, and maintain updated Software files as detailed above.

5. Defend any suit brought against the Owner and pay any damages due to the resulting judgment from any suit brought against the Owner as it pertains to a violation of copyrights or patents of the Software or licenses. The Owner shall notify the AV contractor in writing promptly and give authority, information and assistance at the AV Contractor's expense.

6. The AV contractor at its own expense and option shall, if able, procure for the Owner the right to continue to use the Software as licensed or to replace it with a non-infringing release. This shall not include any agreement by the AV Contractor to accept liability for patent or copyright infringement for beyond the Software as licensed and furnished for the Project. This also excludes any agreement by the AV contractor to accept liability for patent or copyright infringements for methods and processes to be carried out by using said Software except those inherent in the furnished System.

7. All contracts with Third-party software suppliers will transfer from the AV Contractor to the Owner at Project acceptance by the Owner.

8. The Owner shall apprise the AV Contractor of activities it takes with Third-party software providers during the warranty period. Included activities would include discontinuing the use of any Software component, installing updated or alternate versions of the Software, revising the configuration of affected systems.

9. The Owner can contact the AV Contractor for questions at no additional cost during the warranty period, providing:
   a. The queries are related to the audiovisual systems defined in this document.
   b. The query is asked by the Owner's staff or authorized representative.
   c. The inquirer has attended the AV Contractor's or the manufacturer's training in the use of the systems defined in this document.
   d. The question is not intended as design consultation.
PART 2 - PRODUCTS

2.01 GENERAL

A. Materials used shall present no environmental or toxicological hazards as defined by current industry standards and shall comply with OSHA and EPA standards, other applicable federal, state, and local laws.

B. Product numbers are subject to change by the manufacturer without notification. In the event a product number is invalid or conflicts with the written description, notify the Owner in writing prior to ordering the material and performing installation work.

C. Provide products, equipment and software that are the latest version of the specified model or type available at the time of procurement, providing the updated devices provide the same or better capabilities and performance required by the system design.

D. Where denoted “or equal”, equal products will be considered. The manufacturers, product numbers, and types listed at those instances establish minimum performance. Unless noted on the equipment list, it is not intended to exclude other products whose performance is equivalent to those named.

E. Substitutions: The Engineer may consider substitutions for certain equipment if the Contractor demonstrates that the substitution meets or exceeds the functional requirements described in the System Description and Performance Standards. Follow the requirements of section 012500 “Substitutions” for substitution requests.

1. Substitutions: Submit substitution requests based on the specified equipment and including associated equipment costs separate from the costs of the equipment as specified.
   a. Proposals for alternate equipment will receive consideration if the differences between the specified and alternate/substituted equipment do not depart from the overall intent of the design and operation of the system and are in the best interests of the Owner.
   b. Include full technical information and cut sheets for the proposed substitutions.
   c. If the inclusion of substituted equipment will result in a different connection configuration than that in the bid documents, produce drawings that illustrate how the proposed system would be connected.

F. Demolition:

1. The contractor is responsible for removing unused or abandoned equipment in the classroom and moving it to a location within the facility designated by the Owner.

2. The contractor is responsible for removing and disposing of abandoned or unused conduit in the classrooms under the scope of work.
2.02 EQUIPMENT SCHEDULE

A. Quantities: Quantities are either listed herein with a number, as “A/S” (as shown), or as “A/R” (as required). If listed as A/R or the quantity is marked with an asterisk, determine quantities as required for a fully operational system. Confirm the quantity listed here against the drawings.

B. Centralized Software-Based Management

1. Provide a web-based AV resource management and remote control application to manage, monitor, and control AV equipment and other devices using a standard TCP/IP network.
   a. Extron Global Viewer/Global Configurator
   b. Or Equal

C. Wi-Fi HD Camera System

1. Provide a Wi-Fi enabled camera system, minimum 1080P resolution, to view and transmit wirelessly to the room’s projector or video system.
2. The system shall be portable, applicable to rooms where skills need to be demonstrated.
3. Include portable cart or stand and receiving devices for a turn-key solution.
   a. Mevo
   b. Or Equal

D. Room Types

1. Standard Classroom Type 1 – Dual projector, extended desktop

<table>
<thead>
<tr>
<th>Description</th>
<th>Make</th>
<th>Model</th>
<th>Qty.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CATEGORY: AUDIO</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speakers, ceiling-mounted</td>
<td>Extron</td>
<td>SF—3C-LP</td>
<td>A/R</td>
<td>Provide option for FF120</td>
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<tr>
<td>Assisive Listening System</td>
<td>Listen Technologies</td>
<td>Portable 72</td>
<td>A/R</td>
<td></td>
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<tr>
<td><strong>CATEGORY: VIDEO</strong></td>
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<td></td>
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<td>Video Projector, Laser, 5,400 LM</td>
<td>Panasonic</td>
<td>PT-RZ570</td>
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<td>Include lens, mounts and accessories</td>
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<tr>
<td>Video Projector, Laser, 6,500 LM</td>
<td>Panasonic</td>
<td>PT-RZ670</td>
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<td>Include as alternate</td>
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<td>Standard Lens</td>
<td>Panasonic</td>
<td>ET-DLE170</td>
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<td>Include as alternate</td>
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<td>Ultra-Short-throw Lens</td>
<td>Panasonic</td>
<td>ET-DLE030</td>
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<td>Extron</td>
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<td>Make</td>
<td>Model</td>
<td>Qty.</td>
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<td>Video Extender Set, HDMI, shielded CAT6 interconnect</td>
<td>Extron Or Equal</td>
<td>DTP T HWP 4K 231D</td>
<td>A/R</td>
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<td></td>
<td>DTP HDMI 4K 230 RX</td>
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<td>Collaboration System, Wireless</td>
<td>Extron Or Equal</td>
<td>ShareLink 200N</td>
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<td>Document Camera, HDMI, interactive</td>
<td>Elmo Or Equal</td>
<td>TT-12iD</td>
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<td><strong>CATEGORY: CONTROL</strong></td>
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<td>Control Keypad</td>
<td>Extron Or Equal</td>
<td>MLC Plus 200</td>
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<tr>
<td><strong>CATEGORY: ACCESSORIES</strong></td>
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<tr>
<td>Wall Plate, HDMI</td>
<td>Extron Or Equal</td>
<td>PVT HDMI</td>
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<td>Wall Plate, HDMI/VGA</td>
<td>Extron Or Equal</td>
<td>PVT HDMI/VGA</td>
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<td>Projection Screen, Manual, 16:10, 109&quot; Diagonal</td>
<td>Da-Lite Or Equal</td>
<td>Model B CSR</td>
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<td>Include 119&quot; Diagonal as alternate</td>
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<td>Extron Or Equal</td>
<td>PlenumVault PVM220</td>
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<tr>
<td><strong>2. Standard Classroom Type 2 – Dual projector, mirrored image</strong></td>
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<tr>
<td><strong>CATEGORY: AUDIO</strong></td>
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<tr>
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<td>Extron Or Equal</td>
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3. Standard Classroom Type 3 – Single projector, wall-mounted speakers

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5. Special Classroom - Forum

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6. Special Classroom - Theater

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7. Special Classroom – Tech Lab

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### 2.03 CABLES AND WIRES

A. Provide cables and wires that are continuous - without splices.

B. Cable selection

1. Refer to functional diagrams for signal type between equipment.
2. Select a cable with the appropriate rating and configuration required by the applicable building code, electrical code, AHJ, and applicable codes and regulations governing the installation.
3. For cables that will be installed in conduit within on-grade concrete, select a cable rated for underground construction.
4. For cables that will be installed outdoors in underground conduit, aerial, and/or corrosive environments, select a cable rated for outdoor construction.
5. For signal extenders, use extender the manufacturer’s recommended cable type and within the maximum cable run length to be used.

C. Unless otherwise called for in these specifications and drawings, the following cables are approved for the associated application or signal type. Ensure the chosen cable is appropriate for the signal type, available pathway capacity, and run length.

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<tr>
<th>Application</th>
<th>Non-Plenum Product</th>
<th>Plenum Product</th>
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<tr>
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<td>Belden AV6SHR</td>
<td>Belden AV6SHP</td>
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<td>Extron XTP DTP 24</td>
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<td>Superior Essex 6H-246-xA</td>
<td>Superior Essex 6H-246-xB</td>
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<td></td>
<td>Or equal by Liberty, Crestron</td>
<td>Or equal by Liberty, Crestron</td>
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<td>Application</td>
<td>Non-Plenum Product</td>
<td>Plenum Product</td>
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<td>-------------------------------------------------------------------------------------</td>
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<td>Control cable</td>
<td>West Penn 77350&lt;br&gt;Liberty LLINX-U&lt;br&gt;Or equal by Belden, Crestron</td>
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<td>Microphone and line-level audio cable</td>
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<td>West Penn 25291B&lt;br&gt;Liberty 20-2C-PSH-WHT&lt;br&gt;Or equal by Belden, Canare, Mogami</td>
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<td>West Penn 25227B&lt;br&gt;Liberty 12-2C-P-BLK&lt;br&gt;Or equal by Belden, Canare</td>
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<td>Antenna cable (wireless microphone) – 50-Ohm</td>
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<td>Extron 25815&lt;br&gt;Liberty RG59-CCTV-PL-BLK&lt;br&gt;Or equal by Belden, Canare, West Penn</td>
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<td>West Penn 819&lt;br&gt;Liberty 20-CMR-VIDEO-BLK&lt;br&gt;Or equal by Belden, Gepco</td>
<td>West Penn 25825&lt;br&gt;Liberty 20-CMP-VID-COAX-BLK&lt;br&gt;Or equal by Belden, Gepco</td>
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<td>CATV trunk cable</td>
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<td>CATV drop cable</td>
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2.04 **CUSTOM REMOTE CONTROL PANELS AND INTERFACE PLATES**

A. For custom remote control panels and interface plates, use 1/8 inch (3mm) thick #6061 T6 aluminum, with a brushed, anodized, black finish (or as approved by the Architect via submittals).
2.05 EQUIPMENT PLATES
   A. For equipment plates, utilize 1/32" to 1/16" thick by 1/4" high aluminum with a brushed anodized black finish.
   B. Provide engraved lettering 1/8" to 3/16" high.

2.06 EQUIPMENT LABELS
   A. For equipment labels, utilize white, self-laminating, machine-printable, permanent adhesive-backed tape, 3/8" to 1/2" high.
   B. Provide text using black 12-point Helvetica, or a visually similar, san-serif typeface.
   C. Manufacturer, or equal:
      1. Brady
      2. Brother
      3. DYMO XTL or Rhino
      4. Panduit
      5. Thomas and Betts

2.07 WIRE AND CABLE LABELS
   A. Use either of the following label types for wire and cable labels:
      1. Tape – machine-printable, wrap-around, self-laminating, permanent adhesive-backed tape
      2. Machine-printable, shrink-wrapped labels
   B. Provide labels with a white face stock (print area).
   C. Size as needed per wire/cable size.
   D. Provide labels that meet UL 969 requirements.
   E. Manufacturer, or equal:
      1. Brady
      2. Brother
      3. DYMO XTL or Rhino
      4. Panduit
         a. #S100X075YAJ; self-laminating cable label, white face stock 1" wide, diameters 0.08"-0.16"
         b. #S100X125YAJ; self-laminating cable label, white face stock 1" wide, diameters 0.12"-0.28"
         c. #S100X150YAJ; self-laminating cable label, white face stock 1" wide, diameters 0.16"-0.32"
         d. #S100X225YAJ; self-laminating cable label, white face stock 1" wide, diameters 0.24"-0.48"

2.08 RACK BONDING
   A. Rack busbars
      1. Application: for consolidating bonding connections to approved ground, with pre-drilled holes for approved bonding connections.
      2. Material: Copper (referred) or copper alloy
3. UL Listed
4. Manufacturer, or equal:
   a. CPI #10610-019; horizontal rack busbar, 19”
   b. CPI #40160-036; vertical rack busbar, 36”
   c. CPI #40160-072; vertical rack busbar, 72”

B. Bonding conductors
   1. Type: THHN (THWN will be accepted)
   2. UL Listed as type THHN per Standard 83.
   3. Conductor: soft drawn annealed copper, stranded
   4. Gauge: 6 AWG, minimum, or as shown on the drawings
   5. Insulation: PVC, high-heat and moisture resistant
   6. Jacket: Nylon, abrasion, moisture, gasoline and oil resistant
   7. Color: green
   9. Manufacturer, or equal:
      a. Southwire

C. Bonding connectors
   1. Two-hole, standard (or long) compression-type barrel lug, 1/4” dia. x 5/8” on center
   2. UL Listed, for the purpose used
   3. Manufacturer, or equal:
      a. Panduit #LCD6-14A-L, compression lug for 6 AWG conductor
      b. Thomas & Betts #54205, compression lug for 6 AWG conductor

PART 3 - EXECUTION

3.01 GENERAL

   A. Perform work in accordance with the standards and best practices defined by the InfoComm International coursework for Installation 1: System Fabrication and Installation 2: Setup and Verification.

   B. Install products per manufacturers’ instructions.

   C. Install panels, equipment, boxes, etc., plumb and square.

   D. Seismic safety:
      1. Mount, anchor and/or brace permanently-installed equipment to the building structure using anchors, fastenings, supports, and methods approved by structural engineer with a safety load factor of at least 1.5. Provide installations that meet the most stringent of applicable codes and regulations to minimize potential damage to personnel and equipment from foreseeable seismic events.
      2. Brace hanging audiovisual and associated equipment both to minimize sway and to prevent detachment from the overhead structure in accordance with applicable codes.
      3. Firmly secure equipment in place unless requirements of portability dictate otherwise.
3.02 EXAMINATION

A. Prior to starting the work of this section, examine areas to receive system components and pathways to receive cabling to verify conditions are ready for work of this section and to verify conformance with manufacturer and specification tolerances.

1. Verify that pathways, including conduit, junction boxes, cable trays, ceiling enclosures, etc., are in place prior to placing cables into pathways and as required by applicable codes.

2. Verify that rough-in (including conduit, device boxes, floor boxes, and the like) is ready to receive wiring, cabling, devices, equipment, and the like prior to installing into the rough-in.

3. Verify that electrical power service is ready and stable prior to connecting equipment.

4. Check ceiling types, ceiling heights, and clearances above ceilings to ensure conditions are appropriate per manufacturer’s installation requirements.

B. Verify that the network is operational and ready to receive connection from and configuration for the System. “Ready” includes settings on the network required for the System to function properly. Coordinate with the network contractor as needed to ensure the network settings have been adjusted to support full functionality of the System.

C. Proceed with installation work only after unsatisfactory conditions are corrected.

3.03 INSTALLATION

A. Plenum-type equipment racks / enclosures

1. Completely assemble equipment racks / enclosures. Include parts and accessories, such as electrical power distribution devices, cable dressing accessories, and blank and vent panels, required for a complete result.

2. Anchoring/bracing: Anchor enclosures to the underside of the slab at four points per approved structural details using anchors and methods approved by a structural engineer.

3. Bonding/Grounding: Connect the equipment rack frame to an approved ground point using a bonding conductor (12 AWG up to 6 AWG) and approved connectors. (Here, an approved ground point may be the ground of the branch circuit serving the rack or an approved conductor to the ground bus of the electrical panel serving the rack.)

4. Cooling provisions: Coordinate cooling provisions (means to prevent equipment from overheating) within rack/credenza/etc., such as inlet and exhaust openings, exhaust fans, etc. All of the installed equipment must be capable of working continuously with the enclosure closed normally while staying within manufacturers’ operating temperature specifications. Acceptance testing will include temperature verification.

B. Projection systems

1. Projector Supports
   a. Anchor poles to structure using means approved by a structural engineer.
   b. Install lateral and/or transverse bracing to poles for seismic bracing as required.
   c. Securely install mounts onto poles using compatible adapting components.

2. Projectors
   a. Securely install projectors to mounts.
   b. Fully assemble and install projectors, lenses, and mirrors such that the final condition will be no observable movement in the image induced by motor vibration or other mechanical operations.
c. Install accessories onto mounts or projectors using approved attachment methods that guarantee the longevity of the installation. Accessories may be attached mechanically, if allowed by the projector/mount manufacturer, or by using 3M TB3571/3572 hook and loop fastener tape or an approved equal.

3. Align projection systems so projected images fill the viewing areas of the associated projection screens and exhibit no geometric distortion.

4. Only use physical and/or optical adjustments to correct geometric distortion.

5. Only use electronic or digital correction when called for in this document package.

6. Confirm that the total averaged light output from all projectors, in lumens, is at least 85% of that specified by the projector manufacturer.

7. Confirm that the light falloff from the center of the projected image to four corners, as measured at the projected image plane, does not exceed 50%.

C. Loudspeaker tap settings
   1. Where loudspeaker tap wattages are specified in the design documents, set transformers per these. Otherwise, set taps per best practices.

   2. Set taps such that the total wattage of a series of loudspeakers will not exceed 75 percent of the associated amplifier’s rated wattage.

   3. Record tap settings per loudspeaker for inclusion on the as-built drawings.

D. Loudspeakers, wall recessed mounted
   1. Prior to installing loudspeakers, line niches using glass fiber loosely filled to 2 pounds per cubic foot density.

   2. Provide cabling service loops to allow loudspeakers to be removed from niches prior to disconnection.

E. Loudspeakers, wall surface-mounted
   1. Install loudspeakers per manufacturers’ recommendations and the design documents.

   2. Install loudspeakers plumb and square.

   3. Use security mounting hardware where loudspeakers will be mounted below 10’ AFF.

   4. Provide security cables per codes and best practices.

   5. Where manufacturer labels are visible on loudspeaker grills and are rotatable, align these to read correctly.

   6. Where loudspeakers will be exposed to humidity or water spray, ensure water will not be able to penetrate cable connections.

F. Loudspeakers, acoustical tile ceiling mounted
   1. Coordinate ceiling tile work (such as cutting holes) with the ceiling contractor.

   2. Unless directed otherwise, center ceiling loudspeakers to ceiling tiles and evenly space loudspeakers.

   3. Cut ceiling tiles to fit loudspeaker such that no gaps are visible after the loudspeaker cover/grille is installed.

   4. Install ceiling loudspeakers with safety wires attached to the building structure per applicable codes and best practices.

   5. Use tile rails and other support components to ensure loudspeakers do not sag.
6. Where manufacturer labels are visible on loudspeaker grills and are rotatable, align these consistently.

7. Replace ceiling tiles damaged during loudspeaker installation work.

G. Loudspeakers, gypsum (‘hard lid’) ceiling mounted
   1. Coordinate ceiling work (such as cutting holes) with the framing contractor.
   2. Unless directed otherwise, align and evenly space loudspeakers.
   3. Cut wallboard to fit loudspeaker such that no gaps are visible after the loudspeaker cover/grille is installed.
   4. Install ceiling loudspeakers with safety wires attached to the building structure per applicable codes and best practices.
   5. Where manufacturer labels are visible on loudspeaker grills and are rotatable, align these consistently.

H. Cabling and wiring – at racks
   1. Do not use electrical tape for bonding, splicing, joining, or any other purpose.
   2. As a general practice, run power cables, control cables, and other cables with higher voltage levels on the left side of an equipment rack as viewed from the back; run other cables with lower voltage levels on the opposite side. Where wiring issues or wire routing facilities preclude this configuration, it is acceptable to deviate from the directions above, if separation is maintained between signal and electrical power cables.
   3. To reduce signal contamination, group cables per the signals being carried. Maintain appropriate distances between cable groups, especially between high-current (power; loudspeaker) and low-current (microphone) groups. Form separate groups for the following cables/signal types:
      a. Power
      b. Control
      c. Analog video
      d. Digital audio and video
      e. Analog microphone audio
      f. Analog line audio
      g. Loudspeaker audio
      h. Radio frequency
   4. Within racks, install wires and cables with service loops. Provide sufficient cable to allow each piece of equipment to be removed from the front of the rack for servicing.
   5. At boxes or points of termination, install wires and cables with service loops. Provide sufficient cable to allow each piece of equipment to be removed and laid flat on a surface for servicing.
   6. At slide-out equipment racks, dress cables to allow racks to be extended to the maximum length of the rack slides. For slide-out rotating racks, provide sufficient cable to allow full extension and rotation.
   7. For cables that interface with racks, cabinets, consoles, or equipment modules, use screw-type terminal blocks, terminal strips, or connectors. Telephone-style punch-down blocks (e.g., 110 blocks) are not acceptable.
   8. Do not bend any cable or wire tighter than the manufacturer’s minimum bend radius.
   9. Install wires and cables such that the cable exerts no strain on its termination.
   10. Label wires and cables, regardless of length, using a cable label with a unique number or letter per the instructions below under “Labeling”.

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11. Cable Shield Bonding: For cables with shields, connect them using approved connectors per an approved grounding topology.

12. Encase umbilicals connecting moveable racks and cabinets to walls and other fixed locations in braided sleeving. Where racks and cabinets are installed in view of non-technical people, coordinate sleeving colors with the Architect.

I. Cabling and wiring – overhead distribution

1. Use cabling appropriate to loudspeaker impedance, cabling distance, and installation conditions (such as plenum versus non-plenum).

2. The use of electrical tape for bonding, splicing, joining, or any other purpose is prohibited.

3. Provide cable runs between termination points that are continuous, with sheath continuity. Splices are not permitted anywhere.

4. Place cables within designated pathways, such as cable tray, cable hangers, etc. Do not fasten cables to other building infrastructure (such as ducts, pipes, etc.), other systems (such as ceiling support wires, wall studs, etc.), or to the outside of conduits, cable trays, or other non-approved pathway systems.

5. Protect cables from physical interference and damage during installation and termination. Install cables with no kinks or twists.

6. Install HDBaseT cables within manufacturers’ length recommendations.

7. Comply with manufacturers’ limits for pulling tension.

8. Do not use cable-pulling compounds for indoor installations.

9. Install cables within manufacturers’ bend radius limits. If no minimum bend radius is given, then maintain a minimum bend radius of six times the cable diameter during and after installation.

10. Route cables under building infrastructure (such as ducts, pipes, conduits, etc.); do not route cables over building infrastructure. Install cables to provide accessibility for future service.

11. Place cables 6", minimum, away from power sources to reduce interference from EMI.

12. Connectors: Use the following connectors:

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<th>Category</th>
<th>Subcategory</th>
<th>Type</th>
<th>Acceptable Manufacturers</th>
<th>Comments</th>
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<td>UHF</td>
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<td>D-sub</td>
<td>DB-9, DB-25</td>
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<td>TE Connectivity</td>
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<tr>
<td>Control</td>
<td>Phoenix</td>
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<td>Phoenix Contact</td>
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<td>Modular</td>
<td>4p4c plug</td>
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<td>8-contact</td>
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<td>USB cable</td>
<td>A, B, C types</td>
<td>Extron</td>
<td>Crestron</td>
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<td>Fiber</td>
<td>LC</td>
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## Integrated Audiovisual Systems

<table>
<thead>
<tr>
<th>Category</th>
<th>Subcategory</th>
<th>Type</th>
<th>Acceptable Manufacturers</th>
<th>Comments</th>
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<tbody>
<tr>
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<td>TE Connectivity</td>
<td>3M</td>
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<tr>
<td>Fiber</td>
<td>SC Duplex</td>
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<td>TE Connectivity</td>
<td>3M</td>
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<td>SMA</td>
<td>Industrial Fiberoptics</td>
<td>TE Connectivity</td>
<td>Phoenix Contact</td>
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<td>ST</td>
<td>Molex</td>
<td>TE Connectivity</td>
<td>3M</td>
</tr>
<tr>
<td>Fiber</td>
<td>TOSLINK</td>
<td>Tripp Lite</td>
<td></td>
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</tbody>
</table>

### J. Terminations and Cords at Floor Boxes
1. Provide strain relief for cables. Use appropriate cable management products (such as hook and loop straps for UTP and STP cabling, and nylon cable ties for other cables) to group similar cable types.
2. Provide permanent labels on cables within 6" of terminations.
3. Provide permanent labels on receptacles within floor boxes to clearly identify terminations and services.
4. Encase umbilicals connecting moveable racks, cabinets, etc., to floor boxes in braided sleeving. Where racks and cabinets are installed in view of non-technical people, coordinate sleeving colors with the Architect.

### K. Blank panels
Provide blank trim plates in floor, wall and furniture-mounted boxes at unused termination positions. Fill each module opening filled, either with a receptacle, a receptacle plate, or a module of the type the opening is intended to house.

### L. Patch panels
1. Assignments: Wire patch panels so that signal sources appear on the upper row of a row pair; and destinations appear on the lower row of a row pair. Submit variations from this approach per the requirements in Submittals.
2. Designation strips: Utilize alphanumeric identifications and descriptive information on audio and video patch panel designation strips. Number the jack positions in each row sequentially from left to right. Letter the jack rows sequentially from top to bottom. Include the alphanumeric identification of each jack on the functional block drawings. Mount reproductions of these drawings in an appropriate location near the patch bays.

### 3.04 EDID MANAGEMENT

#### A. For each system, determine the maximum pixel resolution, frame rate, and color depth supported by all content displays, and designate this as the target resolution for the system. Omit digital signage displays from this process.
1. Scalers: Configure video scalers as follows:
   a. Input: Emulate the EDID configuration of the native resolution of the connected display or projector for both analog and digital inputs.
   b. Output: Configure to match the native resolution of the display system and at the highest supported scan rate.

#### B. Determine the system’s maximum audio parameters – output channel count, LFE capabilities, etc.
C. Configure the system’s EDID management to ensure that these audio and video parameters are sent to source devices.

**3.05  HDCP MANAGEMENT**

A. Include HDCP support in all equipment that incorporates copy protection for the transport of copyrighted media.
   1. Installation requirements
      a. Equipment capable of passing HDCP included in this project must support the same HDCP version (i.e. HDCP 1.4 or HDCP 2.2).
   2. Exceptions
      a. HDCP may be defeated for educational institution projects per ‘fair use’ copyright terms.

**3.06  NETWORK SECURITY**

A. Leave no network-connected device operating with its factory-default password.
B. Obtain Owner defined password changes for all network-connected devices. Program these passwords into the devices.
C. Where available, enable two-factor authentication.

**3.07  PROGRAMMING AND EQUIPMENT CONFIGURATION**

A. General Programming
   1. Install the most current version of manufacturers’ firmware on devices.

B. Audio Processor Programming
   1. The following instructions apply to all systems including programmable audio processors and microphones.
   2. Make equalization and other room tuning adjustments to obtain the flattest, and least colored result the system is capable of.
   3. After tuning the system, perform other adjustments, such as dynamics, AEC, etc.

C. Control System and Touch Panels
   1. Owner’s requirements
      a. Meet with the Owner and document their functional and user interface requirements (backgrounds, color scheme, screens, menus, functions, etc.).
      b. Develop programming and user interfaces based on the user requirements.
      c. Submit touch panel layouts and menu flow documentation to the Owner and Engineer per submittal schedule.
      d. Meet with the Owner and Engineer and present the control system programming and user interfaces. Obtain the Owner’s approval on these items.
   2. Programming guidelines
      a. Create initial screens (splash screens) that use a version of the Owner’s logo, generated without visible scaling artifacts.
      b. Only use red for alarm indicators and other screen elements of special significance.
      c. Avoid use of technical terms, rather, use clear, everyday language. For example, instead of “System On”, use “Turn System On”; instead of “Power Down”, use “Turn Power Off”, etc.
d. Ensure soft buttons are sized consistently and spaced evenly.

e. Ensure spelling, punctuation, and grammar are 100% correct.

f. Provide menus on both touch panels and control system web pages that appear and function consistently throughout the project.

g. Ensure items with similar functions appear consistently in all menus.

h. Provide soft button presses that display visual feedback, and if required by the Owner, audible feedback.

3. Tech menu: Provide a “tech” menu for each touch panel. Include in tech menus:

   a. Volume control for button audible feedback

   b. Screen brightness

   c. A means to change the tech screen password; obtain from the Owner’s Representative a default password for all touch panel tech menus

   d. Other technician-specific functions required for each system

4. Make IP control system devices (touch panels, controllers, processors, etc.) accessible and controllable via the network and via web access. For example, users and/or technicians shall be able to operate touch and pushbutton panel functions remotely. Coordinate with the Owner’s Representative to ensure a successful implementation of this requirement.

5. In AV-equipped rooms with an operable partition, program the AV system to use signals from the rooms’ partition sensors to automate audiovisual system combine/divide functions.

D. Power control and sequencing

1. Whether explicitly listed in this specification or not, provide power control interfaces, e.g., remotely controllable PDUs, for equipment and devices that are not equipped with integrated power control. Provide power control interfaces that are fully compatible with the specified control system. Follow this directive for devices, such as audio power amplifiers, which would not be adversely affected by external power controls. Omit such power controls for devices, such as transmitters and receivers, that should not be externally power controlled.

2. Configure non-controlling items to power off or go into a standby/low power-consumption mode when systems are powered off. At minimum, program the AV system to power off the following types of devices when not in use.

   a. Audio processors

   b. Audio amplifiers

   c. Displays

   d. Projectors

3. Configure devices that detect connection to user devices to stay in standby/low power-consumption mode when audiovisual systems are turned off.

   a. Video switchers and processors

4. When turning systems on, use the following sequence for audio components.

   a. Turn on source devices.

   b. Turn on processing and routing devices.

   c. Turn on amplifiers.

5. When turning systems off, use the following sequence for audio components.

   a. Turn off amplifiers.

   b. Turn off processing and routing devices.

   c. Turn off source devices.
E. Network connection

1. Connect all network-connectable equipment and devices to the network. Program them to electronically issue notifications for preventative maintenance (e.g., replace a projector lamp).

2. Coordinate with the Owner’s Representative which devices are to provide notification (e.g., email notification) immediately at the time of a fault and which devices will provide notifications on a daily or weekly report.

3. Coordinate with the Owner’s Representative to obtain the default notification means (e.g., the email address for maintenance messages).

4. Ensure the Owner’s Representative can revise the maintenance email address via a simple method – using a single address for all networked AV devices. Document this procedure in the Operations Manual.

F. Equipment configuration:

1. Blu-ray disk players: Set color space to RGB.

2. Computer interfaces, signal extenders and transmitters with integral input switching: Program each device and related system components involved so that the analog audio input is active regardless of which video input is selected.

3.08 LABELING

A. Provide labeling identifiers that match closeout documentation (e.g., as-built drawings, O&M Manual, etc.).

B. Clean and degrease surfaces receiving nameplates and labels prior to affixing labels.

C. When creating labels for user-facing equipment and cables, use colored labels where possible. Example uses are floor boxes, table boxes, cameras, displays, and user-facing cables. Use color coding to relate labels to related components, i.e., match the text and color on each user-facing cable, its corresponding button on the button panel, and its corresponding input on the display. Example: HDMI 2 cable has a yellow label printed with “HDMI 2”, the button panel at the table box has a yellow “HDMI 2” label and the input on the display has a yellow label printed with “HDMI 2”.

D. Interface plate designation

1. Provide wall-mounted interface plates with clearly engraved alphanumeric identification of input type (e.g., “MIC-1”, “LINE IN”, “SPEAKER”, “VIDEO”, etc.) and corresponding patch field designation.

E. Equipment enclosures

1. Install the label on the top of the rack or cabinet, centered horizontally.

2. Example: line 1: “AV-01”, line 2: “Audiovisual Devices”.

F. Equipment

1. Rack-mounted equipment: Install labels in visible locations on equipment and devices on the front and back of the equipment.

2. Field equipment: Install labels in visible locations on miscellaneous field equipment and devices.

G. Wireless transmitters and receivers

1. Label wireless transmitters and receivers so users can clearly identify a given transmitter associated with its receiver.
2. Use an identifier, such as a room number, that associates each transmitter with a given room or system.
3. Example: RM.230–MIC.3–RCVR.1

H. Wire and cable
1. Comply with the Owner’s labeling requirements. If the Owner does not have labeling requirements, conform with InfoComm F501.01.
2. Provide labels with machine-generated text; hand-written labels will not be accepted.
3. Provide labels with black text 1/8” high or #12 font size.
4. Generate a unique identifier for each cable and wire using the system defined in the InfoComm F501.01 standard. Include “primary level” data elements (per F501.01); “secondary level” (per F501.01) data elements are optional.
5. Install labels on both ends of cables no more than 4” from the edge of the cable. Install labels such that they are visible by a technician from a normal stance.

I. Patch panels
1. Using two-line designations, indicate groups of outputs on upper rows of top ports and inputs on lower rows of bottom ports.
2. Example: line 1, “Mixer Mic Inputs”; line 2, “In-1 | In-2 | In-3 | In-4, etc.”

J. Batteries
1. Label batteries with the month and year they were installed.
2. Example: “Installed April 2017”

3.09 FIELD QUALITY CONTROL

A. Initial tests and measurements: Prior to final adjustment and scheduling acceptance testing, perform initial tests and measurements. At minimum, include the following initial tests and measurements:
1. Adjust, balance, and align equipment for optimum quality and to meet manufacturers’ published specifications.
2. Perform the test procedure provided at the end of this specification and return the completed form no less than one week prior to the initial punch walk.
3. For rack-mounted equipment with user-accessible controls, install 1/8” diameter vinyl "map dots" as indicators for nominal operating positions of rotary, slider, and other accessible controls. Provide multiple dots, adequately distinguished, for controls having more than one nominal operating position.

B. Twisted-pair cable testing: Follow the following procedures to test CATEGORY-type twisted pair cabling.
1. Equipment, or equal:
   a. Fluke DSX CableAnalyzer
2. Test procedure:
   a. Configure the cabling and test set up as a permanent link.
   b. Test each cable under a TIA-568 Permanent Link test script to match the category of the installed cabling.

C. Digital video cabling: Follow the following procedure to test each provided digital video cable.
1. HDMI: Quantum Data 780, or equal
2. DVI/SDI/HD-SDI: Quantum Data 882D, or equal
3. DisplayPort: Quantum Data 882E-DP, or equal
4. Test Procedure:
   a. Test each cable.
   b. Replace all cables that fail.

D. Audio system:
1. Loudspeaker line impedance: Measure the impedance at 63 Hz, 250 Hz, and 1 kHz and the resistance of each loudspeaker line leaving the sound equipment rack with the line disconnected from its normal driving source. For lines to full range distributed loudspeaker systems, measure impedance at 1 kHz.
2. Hum and noise level:
   a. Measure the hum and noise levels of the overall system for each microphone input channel and line level input channel.
   b. Adjust gain controls for optimum signal to noise ratio so that full amplifier output is achieved with 0 dBm at a line level input.
   c. Terminate line level inputs with resistors of 150 and 600 ohms, respectively, for these measurements.
   d. Disconnect the loudspeaker lines and terminate the power amplifier outputs with power resistors for these measurements. Use load resistors within 5% of the nominal load impedance of the amplifier under test. Use resistors with power ratings equal to or greater than the power rating of the amplifiers.
3. System frequency response:
   a. Measure audio system frequency response for the AV systems described in Part 1. Adjust systems to provide specified performance.
4. Uniformity of coverage:
   a. Using a calibrated testing device, measure octave bands using a pink noise test signal played through the loudspeaker system(s).
5. System power output and signal level adjustment:
   a. Measure the electrical distortion of the overall system for each line level input channel.
   b. Adjust gain control as for the tests specified herein.
   c. Apply a 1 kHz sine wave signal from a test signal generator having less than 0.5% total harmonic distortion at the input tested, at a level required to produce full amplifier output. Note that a pad with 150-ohm output impedance is required for driving the microphone level input in accordance with the EIA standard.
   d. Use a distortion analyzer to measure the output level and total harmonic distortion of the audio equipment. In the absence of a distortion analyzer, a high input-impedance measuring device such as a DMM may be used to measure the output level.
6. Loudspeaker polarity
   a. Perform loudspeaker line polarity checks using a polarity tester or use DC source at one end of each line and a voltmeter at the other end. Confirm that loudspeaker lines are correctly polarized with respect to color coding.
   b. Confirm loudspeaker polarity using a polarity tester.
7. Freedom from parasitic oscillation and radio frequency pickup:
   a. With systems set up for each mode of operation specified in the Part 1, confirm that systems are free from spurious oscillation and radio frequency pickup, in the absence of audio input signal and when the system is driven to full output at 100 Hz.
b. Confirm these tests audibly and by using an oscilloscope having at least 5 MHZ bandwidth.

c. Apply a slow sine wave sweep from 50 Hz to 5 kHz at a level of 6 dB below rated power amplifier output to each system. Listen carefully for buzzes, rattles and objectionable distortion.

d. Correct causes of these defects unless the cause is clearly from other than the sound amplification system's equipment and installation, in which case bring the cause to the attention of the Owner and Architect.

8. Audio test signal paths: Verify operation from source inputs through system components to signal destinations.

E. Analog composite video system:


2. Differential gain: Using an RS-170A step test signal and a waveform monitor, measure chrominance, luminance, and normal synchronizing and blanking signals. Measure variations in chroma subcarrier amplitude at 10%, 50%, and 90% luminance.

3. Differential phase: Operate the system as indicated above and measure chroma subcarrier phase variations at 10%, 50%, and 90% luminance.

F. Projection systems:

1. For each projection system, measure light intensity at the screen’s center and four corners. Take corner measurements 5% of the image area width and height in from image edges.

2. Use a properly calibrated foot-candle (or lux) meter with cosine correction for the above measurements.

G. Control systems:

1. Verify all operational functions at each fixed control interface position.

2. Verify all operational functions of provided wireless control devices.

3. Verify all operational functions of the control system and interfaced devices.

H. Radio frequency (RF) systems:

1. Connect an analog-capable TV to each system outlet. Make a subjective evaluation of picture quality and verify that no visible components of cross modulation, ghosting, or beat interference appear when the receiver is tuned to each of the desired channels.

2. Using an RF signal strength meter, record the signal levels in dBmV of modulated carriers transmitted through the system at representative outlets.

3. RF Test Signal Paths: Verify proper system operation from source inputs to the head end, including antennas, CATV feeds and modulators, through line amplifiers, splitters, and directional couplers, to system outlets.

3.10 CLEANING, PROTECTION AND REPAIR

A. Remove temporary coverings and protection of adjacent work areas. Remove unused, excess, and left over products, debris, spills, or other excess materials. Remove installation equipment.

B. Leave finished work and adjacent surfaces in neat, clean condition with no evidence of damage.

C. Repair or replace damaged installed products.

D. Legally dispose of debris.
E. Clean installed products in accordance with manufacturer's instructions prior to Owner's, or Owner’s Representative’s, punch walk.

F. During the installation and up to the date of final acceptance, protect finished and unfinished work against damage and loss. In the event of such damage or loss, replace or repair such damaged work.

3.11 SUBCONTRACTOR MANAGEMENT

A. Continuously supervise subcontractors during the installation; intermittent supervision is not acceptable.

3.12 SYSTEM ACCEPTANCE TESTS

A. Perform system acceptance tests after completion of initial system checkout and after submitting the Initial Testing and Tuning Report.

B. Prior to setting up a demonstration and/or punch walk with the Engineer, ensure that the System/Systems are complete, operational, and fully functioning, and that pre-functional and functional testing have been completed. Fees for any additional punch walks resulting from incomplete and/or non-functioning Systems may be assessed.

C. System acceptance tests consist of the following:
   1. Take a physical inventory of equipment on site and compare it to equipment lists in the contract documents.
   2. Demonstrate the operation of system equipment.
   3. Perform both subjective and objective tests to determine compliance with the specifications. Provide test equipment specified for these tests.
   4. Provide final, "as built" drawings, run sheets, manuals, and other required documents, as detailed in Part 1.
   5. Provide complete testing reports generated by subsystems that provide self-testing.
   6. Perform power on/off cycles to ensure these take place with no audible and only minimally visible artifacts, pops, etc.

D. Initial Testing and Tuning Report
   1. Perform the following tests for each system unless otherwise noted in Part 1.
   2. Use additional pages as necessary to allow complete comments.
   3. Where blanks are provided in the checklist below, observe the associated value in parenthesis.

<table>
<thead>
<tr>
<th>Test</th>
<th>Description</th>
<th>Result</th>
<th>Comment</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Record equipment that was specified but is not present. Provide a reason why this equipment is not present.</td>
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<td>2</td>
<td>Confirm no sharp or jagged surfaces are accessible to users and technicians.</td>
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<td>3</td>
<td>Confirm that each active device's external temperature, measured using a non-contact thermometer, is within manufacturer's guidelines.</td>
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<td>Test</td>
<td>Description</td>
<td>Result</td>
<td>Comment</td>
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<td>4</td>
<td>Perform and log cable inspection. Confirm each cable is labeled, dressed, included in a bundle with cables with like signals, not under stress, is serviceable, is correctly strain-relieved, is not bent beyond manufacturer's recommended bend radius, does not have tie wraps tensioned excessively or used inappropriately. Confirm labels are positioned and oriented consistently and are legible and unambiguous.</td>
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<tr>
<td>5</td>
<td>Demonstrate that the full inventory is new equipment, in full compliance with the specification, or as modified by approved submission. Record test results as pass/fail, and list exceptions.</td>
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<td>6</td>
<td>Confirm rack elevation and single-line drawings, cable and other labels and engravings are an accurate model of the furnished system, and comply with latest revised specifications. Record test results as pass/fail.</td>
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<td>7</td>
<td>Confirm switcher inputs and outputs are labeled (wherever possible), so that users can easily make manual routes quickly without having to refer to the system drawings.</td>
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<td>8</td>
<td>Confirm amplifier channels are properly labeled, so technicians can make quick adjustments without having to refer to the system drawings.</td>
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<td>9</td>
<td>Confirm rack mounted equipment is labeled and that the labels match those on the drawings (equipment symbols and/or description), control system, field plates, patch panels, and any labels associated with the system.</td>
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<td>10</td>
<td>Confirm modular terminations are solid in their connectors.</td>
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<td>11</td>
<td>Confirm each coax cable respects the manufacturer’s minimum bend radius or at least 5x the cable’s diameter.</td>
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<td>13</td>
<td>Confirm power amplifiers are working within rated load. <em>Record the impedance (and at what frequency) of each loudspeaker line on each power amplifier at 63, 250, and 1,000 Hz.</em></td>
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<td>14</td>
<td>Using appropriate test signals, have the sound system produce a nominal operating level of __(65) dB SPL for conference speech, <strong>(60) dB SPL for program material, “A” weighted at all listeners’ ears ±</strong>(2) dB (&quot;Uniformity of Coverage&quot;) (or at least __(15) dB above the ambient noise, A-weighted, whichever is greater), with the control system volume control indicating &quot;normal&quot; or default setting. <em>Record results for each channel and source.</em></td>
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<td>Test</td>
<td>Description</td>
<td>Result</td>
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<td>15</td>
<td>Confirm the system is capable of producing an additional <strong>(15) dB above this level (</strong>(80) dB SPL) for each audio source, with less than 0.5% THD (Total Harmonic Distortion) plus noise. Measure THD plus noise when source is at __(15) dB above nominal operating level at each “destination”, for all sources selected.</td>
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<td>16</td>
<td>Confirm the system develops a noise level that is electrically __(55) dB below the normal operating level for all audio sources. “Noise” refers to the aggregate of hum, electrostatic noise, RF interference, etc. Measure and record Signal to Noise (“signal” measured electrically at nominal operating level at each destination, for all sources selected.</td>
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<tr>
<td>17</td>
<td>Confirm program loudspeakers are connected in the same polarity, and speech reinforcement systems are polarized such that a positive acoustic pressure on a microphone results in a positive acoustic pressure at the loudspeaker (“Polarity Test”).</td>
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<td>18</td>
<td>Confirm the system produces no more than a __(1) dB variance in program source levels when each program source is playing audio from a calibrated medium (CD, test signal generator, etc.)</td>
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<tr>
<td>19</td>
<td>Confirm there is no audible vibration caused by improper mechanical installation. Use a continuous sweep signal at headroom level (from an audio test signal generator or test CD.) Provide a pass/fail result and document which device fails and the frequency of these artifacts. (“Buzzes and Rattles Test”).</td>
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<tr>
<td>23</td>
<td>Confirm equalizers, whether hardware or virtual, are adjusted for best intelligibility, and in accordance with any preferred acoustic level response curves. Record the “house curve” before equalization, as well as after the equalizers have been tuned, with and without microphone input filters. If requested by the Consultant, produce this documentation for systems without equalizers, as this test may apply to the preamp filter settings in cases where intelligibility can be improved.</td>
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<td>24</td>
<td>If required, confirm system intelligibility, with a RSTI (Rapid Speech Transmission Index) greater than 0.85.</td>
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<td>28</td>
<td>Where several displays are visible in the same space, confirm picture tonal consistency across all of them. For composite video signals, use NTSC color bars with PLUGE signal to all. For digital video signals use a colorimeter and test color signal software to confirm consistent images</td>
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<tr>
<td>Test</td>
<td>Description</td>
<td>Result</td>
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<tr>
<td>29</td>
<td>Confirm projectors are focused, centered, and evenly illuminated. <em>If requested, confirm using a calibrated light meter that the brightest measurement locations are no more than +10% above average, and the dimmest locations no less than −5% below average measurement. If requested, document that geometric distortion is within 2% tolerance. Take actual measurements if necessary (top, bottom, left, right dimensions of white portion of screen) and photograph if necessary.</em></td>
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<td>30</td>
<td>Confirm that the system displays with stability, and with no scaling-related visual artifacts when switching between, at a minimum, the resolutions specified in 1.04 D. Record test results.</td>
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<td>31</td>
<td>Where HDMI, DVI, or DisplayPort signals are included in the system, confirm that an acceptable signal is being displayed on the monitor from each source position. Use the Alt Pixel test image (pixel-on, pixel-off) for each resolution included in the design intent: 1,920x1,200@60, 1,920x1,080@60, 1,280x720@60, as required. Inspect each, leaving the signal on for three minutes. Confirm that no artifacts are visible. For systems including 4k displays, test also at 3,840 x 2,160 and 4,096 x 2,160. Note: If the signal is going to a codec, disable HDCP. If the signal is going to a display, enable HDCP unless specified otherwise in Part 1.</td>
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<tr>
<td>32</td>
<td>Using a signal generator, confirm scaler and display/projector configurations by successfully passing video at the resolutions defined in 1.04 D.</td>
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<tr>
<td>33</td>
<td>Confirm HDCP is maintained from sources to destinations except as excluded above. Confirm EDID is managed correctly and that devices output at resolutions supported by the system.</td>
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<tr>
<td>34</td>
<td>Confirm the control system controls all of the required equipment as specified. Confirm system performs with stability and in sync with the equipment being controlled without the need to reset any item of equipment. Confirm that user interface requirements dictated in Part 3 of the audiovisual specifications have been met.</td>
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<tr>
<td>Test</td>
<td>Description</td>
<td>Result</td>
<td>Comment</td>
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<td>------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
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<tr>
<td>35</td>
<td>Confirm system is serviceable: all devices must be easily removable for repair by one person; all cables must be dressed neatly and be provided with adequate services looks, must be bundled in forms (refer to “Sound System Engineering”, Davis and Davis, 1987 and “Audio Systems Design and Installation”, Giddings, 1990) having no excessive pressure on cables at termination points and connectors, and each cable number must agree with the shop drawings and cabling run list.</td>
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<td>36</td>
<td>Confirm switches and receptacles are logically and permanently labeled.</td>
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<tr>
<td>37</td>
<td>Confirm nomenclature for consistency: drawings, touch screen, wall plates, floor boxes, patch panels, equipment, etc.</td>
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<tr>
<td>38</td>
<td>Confirm patch cables have cable numbers.</td>
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<tr>
<td>41</td>
<td>Confirm TV reception from all sources (OTA, CATV, etc.) and that all channel presets are accurate.</td>
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<tr>
<td>43</td>
<td>Confirm and document the IP configuration information provided by the Owner is loaded into the equipment, including IP and MAC addresses, Dante device names, subnet masks, gateways, time server, gatekeeper, etc. Confirm that all network functions specified by the customer function properly on the customer's LAN.</td>
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<td>44</td>
<td>Confirm all web-based system control and monitoring features, and other IP system functionality (time servers, system-generated e-mail, etc.) are completely functional.</td>
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<td>45</td>
<td>Confirm that display devices have On-Screen Displays/Menus disabled. If the customer has directed otherwise, document from which person this direction came.</td>
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<tr>
<td>46</td>
<td>Confirm that video projectors have blue screens or other images or colors displayed in the absence of an input signal disabled. If the customer has directed otherwise, document from which person this direction came.</td>
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<td>47</td>
<td>Log test conference calls (audio and video). Include in the log start time, line used, number called, status of connection (completed/failed, etc.) who was spoken with at the far end, success of full duplex, success of auto-disconnect, dB SPL in the room. Note static, jitter/packet loss, or any other artifacts, distortion, etc. Note if auto-disconnect functions as specified.</td>
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<td>48</td>
<td>Using a full-screen white test signal, confirm no direct view display nor projector has more defective pixels than specified in Part 1. Note number and location of lost pixels, if any. Provide photos of defects. Include room numbers and any other distinguishing information in photo file names.</td>
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<tr>
<td>Test</td>
<td>Description</td>
<td>Result</td>
<td>Comment</td>
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<tr>
<td>49</td>
<td>Check for excessive vibration on VC camera(s) at full telephoto position.</td>
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<td>50</td>
<td>Provide video recordings of all non-conformances and anomalies.</td>
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<td>51</td>
<td>Confirm all visible devices are installed square and plumb.</td>
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<tr>
<td>52</td>
<td>Confirm no dust, grease, scratches, or any other signs of handling are visible on any devices</td>
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<tr>
<td>53</td>
<td>Confirm assistive listening systems work throughout intended listening areas</td>
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<tr>
<td>54</td>
<td>Confirm closed captioning is functional on all displays</td>
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<tr>
<td>55</td>
<td>Confirm control system user interfaces provide a means to enable and disable display of closed captions</td>
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</tbody>
</table>

E. If further adjustment is required, or defective equipment must be repaired or replaced, tests may be suspended or continued at the option of the Owner or Owner’s representative.

1. If the need for further adjustments becomes evident during the demonstration and testing, continue work until the installation operates properly. Included in the continued work, changes to or installation of resistive pads, adjustment of loudspeaker aiming, adjustment of system processing, programming changes to the control system, convergence and/or alignment of the video projector, if these adjustments are required.

2. If acceptance of the system is delayed because of defective equipment or because the equipment does not fulfill this specification, reimburse the Owner for time and expenses for these tests during extensions of the acceptance testing period.

### 3.13 OWNER TRAINING

A. Provide a minimum of 8 hours per instructor group and a minimum of 4 hours per IT staff group of training on the audiovisual systems specified herein at the project site (or other location designated by the Owner) by a qualified instructor (equipment manufacturer as needed) covering operation and maintenance of the systems. Training for the IT staff should be of technical nature, while training for the instructor group should be of operational nature.

### 3.14 MAINTENANCE AND EXTENDED SERVICE

A. Warranty Maintenance

1. On a quarterly basis during the warranty period, execute a service visit to check and adjust equipment and systems such that they maintain the original performance. Coordinate visits directly with the Owner.

2. Pre-emptive maintenance minimum requirements:
   a. Clean filters, vents, and lenses, and dust the equipment.
   b. Verify projector images fill screens appropriately and images are focused.
   c. Test and verify that all system controls operate as labelled and that the controlled devices respond accordingly.
d. Document and photograph any conditions that may affect the continued function and long-term operation of the audiovisual system and report to owner.

e. Document and report projector lamp life to the Owner and replace lamps as directed.

B. Provide cost for additional service levels beyond the warranty period (as defined in this section) as follows:

1. One year, three-year, and five-year service with quarterly pre-emptive maintenance calls and 24-hour issue response

C. Touch Panel Programming Updates

1. At a date determined by the Owner within six months following Substantial Completion, attend a single meeting with them regarding alterations or updates to the touch panel layouts or function. At a time approved by the Owner, implement those alterations or updates.

2. Provide any training necessitated by these revisions.

3. Provide documentation of these revisions to the Engineer.

4. Provide the source code documentation according to “Software License” in this section.

END OF SECTION