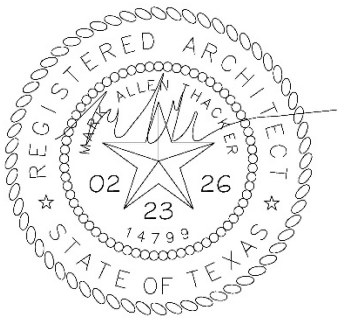




P.O. Box 2612, Lindale, Texas 75771
p 903.595.2656
mark@markathacker.com



Architect: Mark A. Thacker, AIA
Date: February 23, 2026
Registration No.: 14799

Issue Date: 03-09-2026

A/E PROJECT NO. 16042

PROJECT MANUAL

Restoration of the 1913 Leon County Jail Centerville, Texas

ELECTRICAL RELOCATION

Contact Information:

Owner

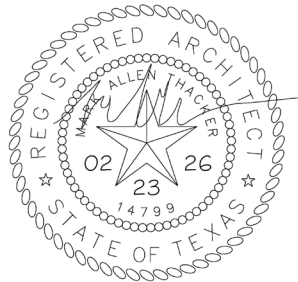
Leon County
P.O. Box 429
Centerville, Texas 75833
(903) 536-2331

Texas Historical Commission
P.O. Box 12276
Austin, Texas 78711
(512) 463-6100

SET NO. _____

**Restoration of the 1913 Leon County Jail
Centerville, Texas
Electrical Relocation**

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SECTION 00020 - INVITATION TO BID

Restoration of the 1913 Leon County Jail
Centerville, Texas

1.0 Construction work on this Project shall be contracted with and performed by the General Contractor for the work. A trade contractor can act as the general contractor provided the company conforms to requirements of the Contract Documents.

1.01 REQUIRED INFORMATION STATEMENTS:
Submit to the Architect complete and accurate information relative to qualifications to do work. Blank forms for this purpose are available in the office of the Architect and are bound in Specifications. Information Statements generally consist of AIA Document A305 Contractor's Qualification Statement. **Completed Information Statements for the General Contractor must be included with bids. Failure to do so may result in disqualification of bid.**

1.02 RECEIPT OF BIDS:
A. Sealed Bid Proposals:

All Sealed Bid Proposals must be delivered to the office of

Leon County
County Auditor's Office
Annex I
113 West Main Street
Centerville, Texas 75833

or mailed to

Leon County
County Auditor's Office
P.O. Box 898
Centerville, Texas 75833

No bids delivered by facsimile or Email will be considered.

B. All proposals, whether mailed or delivered by other means, must be received before the designated Bid Closing Time of **Thursday March 26, 2026; 10:00am, CST** at the Leon County Auditor's Office, 113 West Main Street, Centerville, Texas.

- C. It is the Bidder's responsibility to deliver the proposal at the proper time to the proper place. The mere fact that the proposal was dispatched or mailed will not be considered. The Bidder shall have ultimate responsibility for having the proposal actually delivered to the office of the Leon County Auditor before the Bid Closing Time for receipt of proposals. Bids will be opened publicly shortly after **10:00 am** on the day of the bid at:

Leon County
Annex I, First Floor Commissioners Court room
113 West Main Street,
Centerville, Texas 75833

- E. Bid Proposals received after **10:00 AM** will be returned unopened. The Owner shall designate and publicly display on the date of this Bid Opening and on the designated premises (Auditor's Office) for receipt of bids a timepiece bearing the official time for the purpose of ascertaining the Bid Closing Time.

1.03 BID SUBMISSION:

- A. Bids shall be submitted on form as per sample bound with Specifications in Section 003000. Fill in all blanks on the proposal forms, ensuring that required AIA Document A305, bid bonds, and/or other required documents are also included with bid forms (unless said documents have been previously submitted in accordance with contract documents.) All forms found in Section 003000 of these Specifications must be completed per instructions.
- B. Each proposal shall be sealed within an envelope identified on the lower left-corner with **"Not to be opened until March 26, 2026; 10:00 AM" and "Bid for Restoration of the 1913 Leon County Jail – ELECTRICAL RELOCATION"**. Also, all Addendums received must be listed on the outside of the envelope.

1.04 AWARD OF CONTRACT:

- A. The Owner, Leon County, Centerville, Texas, reserves the right to waive irregularities and to reject any or all bids. Furthermore, the Owner reserves the right to separate or eliminate any item(s) it deems necessary to accommodate budgetary and/or operational requirement. The Owner also reserves the right to reject any or all Bids or parts of the Bids, and waiver all formalities, and to award this Bid in the best interests of Leon County, Centerville, Texas.
- B. Some of the major factors for determining the best value may include:
- the purchase price;
 - the reputation of the vendor and of the vendor's goods or services;
 - the quality of the vendor's goods or services;
 - the extent to which the goods or services meet the County's needs;
 - the vendor's past relationship with the County;
 - the total long-term cost to the County to acquire the vendor's goods or services; and
 - any other relevant factor that a private business entity would consider in selecting a vendor.

- Vendor's experience with historic buildings.

1.05 PLAN LOCATIONS:

A. Drawings and Specifications are on file for review at the following locations:

Leon County – Auditors' Office (903) 536-2709
113 West Main Street
Centerville, TX 75833

Mark A. Thacker, AIA; (903) 316-2194
Commercial & Preservation Architecture mark@markathacker.com
PO Box 2612
Lindale, TX 75771

C. One hard copy (1) set of Drawings and Specifications containing Drawings and Specifications, may be obtained by General Contractors, or trade contractors, for a refundable deposit of \$100.00, in the form of a check made payable to office of Mark A. Thacker, AIA; *Commercial & Preservation Architecture* PO Box 2612, Lindale, Texas 75771. Allow 5 working days for the Architect to arrange printing of documents.

OR

The architect can email a set of construction documents to the bidder at no charge upon written request to the architect's office in the form of an email. It is the bidder's responsibility to verify in writing that the architect received the request and responded.

D. Deposits will be returned to the Bidder within thirty (30) days after opening of the bids; provided that the bidder submits a timely, bona fide bid and that all plan documents are returned in good condition within ten (10) days after Bid Opening. Upon return of plans a refund in the amount of the deposit, less the cost of replacement of damaged or missing documents (including Addenda) will be made.

- 1.06 PRE-BID CONFERENCE:
- A. A pre-bid conference will be convened on: **Monday March 16, 2026; 10:00am**, at the 1913 Leon County Jail on the Courthouse Square, Centerville, Texas. Meet at south entry door of the 1913 Jail.

All bidders are encouraged to attend.

END OF SECTION

SECTION 000201 – INSTRUCTIONS TO BIDDERS

1913 Leon County Jail
Centerville, Texas

In addition to Architects forms for bidding, incorporate the following requirements as provided by Leon County and submit with bid proposal:

Completed form 1295, Certificate of Interested Parties, 1 page
Completed form CIQ, Conflict of Interest Questionnaire, 2 pages
Federally Funded Contracts Procurement Standards and Associated Matters, 39 pages
HB 1295 Information, 1 page

END OF SECTION



AIA[®] Document A701[™] – 1997

Instructions to Bidders

for the following PROJECT:

(Name and location or address)

THE OWNER:

(Name, legal status and address)

THE ARCHITECT:

(Name, legal status and address)

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

TABLE OF ARTICLES

- 1 DEFINITIONS**
- 2 BIDDER'S REPRESENTATIONS**
- 3 BIDDING DOCUMENTS**
- 4 BIDDING PROCEDURES**
- 5 CONSIDERATION OF BIDS**
- 6 POST-BID INFORMATION**
- 7 PERFORMANCE BOND AND PAYMENT BOND**
- 8 FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR**

ARTICLE 1 DEFINITIONS

§ 1.1 Bidding Documents include the Bidding Requirements and the proposed Contract Documents. The Bidding Requirements consist of the Advertisement or Invitation to Bid, Instructions to Bidders, Supplementary Instructions to Bidders, the bid form, and other sample bidding and contract forms. The proposed Contract Documents consist of the form of Agreement between the Owner and Contractor, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications and all Addenda issued prior to execution of the Contract.

§ 1.2 Definitions set forth in the General Conditions of the Contract for Construction, AIA Document A201™, or in other Contract Documents are applicable to the Bidding Documents.

§ 1.3 Addenda are written or graphic instruments issued by the Architect prior to the execution of the Contract which modify or interpret the Bidding Documents by additions, deletions, clarifications or corrections.

§ 1.4 A Bid is a complete and properly executed proposal to do the Work for the sums stipulated therein, submitted in accordance with the Bidding Documents.

§ 1.5 The Base Bid is the sum stated in the Bid for which the Bidder offers to perform the Work described in the Bidding Documents as the base, to which Work may be added or from which Work may be deleted for sums stated in Alternate Bids.

§ 1.6 An Alternate Bid (or Alternate) is an amount stated in the Bid to be added to or deducted from the amount of the Base Bid if the corresponding change in the Work, as described in the Bidding Documents, is accepted.

§ 1.7 A Unit Price is an amount stated in the Bid as a price per unit of measurement for materials, equipment or services or a portion of the Work as described in the Bidding Documents.

§ 1.8 A Bidder is a person or entity who submits a Bid and who meets the requirements set forth in the Bidding Documents.

§ 1.9 A Sub-bidder is a person or entity who submits a bid to a Bidder for materials, equipment or labor for a portion of the Work.

ARTICLE 2 BIDDER'S REPRESENTATIONS

§ 2.1 The Bidder by making a Bid represents that:

§ 2.1.1 The Bidder has read and understands the Bidding Documents or Contract Documents, to the extent that such documentation relates to the Work for which the Bid is submitted, and for other portions of the Project, if any, being bid concurrently or presently under construction.

§ 2.1.2 The Bid is made in compliance with the Bidding Documents.

§ 2.1.3 The Bidder has visited the site, become familiar with local conditions under which the Work is to be performed and has correlated the Bidder's personal observations with the requirements of the proposed Contract Documents.

§ 2.1.4 The Bid is based upon the materials, equipment and systems required by the Bidding Documents without exception.

ARTICLE 3 BIDDING DOCUMENTS

§ 3.1 Copies

§ 3.1.1 Bidders may obtain complete sets of the Bidding Documents from the issuing office designated in the Advertisement or Invitation to Bid in the number and for the deposit sum, if any, stated therein. The deposit will be refunded to Bidders who submit a bona fide Bid and return the Bidding Documents in good condition within ten days after receipt of Bids. The cost of replacement of missing or damaged documents will be deducted from the deposit. A Bidder receiving a Contract award may retain the Bidding Documents and the Bidder's deposit will be refunded.

§ 3.1.2 Bidding Documents will not be issued directly to Sub-bidders unless specifically offered in the Advertisement or Invitation to Bid, or in supplementary instructions to bidders.

§ 3.1.3 Bidders shall use complete sets of Bidding Documents in preparing Bids; neither the Owner nor Architect assumes responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.

§ 3.1.4 The Owner and Architect may make copies of the Bidding Documents available on the above terms for the purpose of obtaining Bids on the Work. No license or grant of use is conferred by issuance of copies of the Bidding Documents.

§ 3.2 Interpretation or Correction of Bidding Documents

§ 3.2.1 The Bidder shall carefully study and compare the Bidding Documents with each other, and with other work being bid concurrently or presently under construction to the extent that it relates to the Work for which the Bid is submitted, shall examine the site and local conditions, and shall at once report to the Architect errors, inconsistencies or ambiguities discovered.

§ 3.2.2 Bidders and Sub-bidders requiring clarification or interpretation of the Bidding Documents shall make a written request which shall reach the Architect at least seven days prior to the date for receipt of Bids.

§ 3.2.3 Interpretations, corrections and changes of the Bidding Documents will be made by Addendum. Interpretations, corrections and changes of the Bidding Documents made in any other manner will not be binding, and Bidders shall not rely upon them.

§ 3.3 Substitutions

§ 3.3.1 The materials, products and equipment described in the Bidding Documents establish a standard of required function, dimension, appearance and quality to be met by any proposed substitution.

§ 3.3.2 No substitution will be considered prior to receipt of Bids unless written request for approval has been received by the Architect at least ten days prior to the date for receipt of Bids. Such requests shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitution including drawings, performance and test data, and other information necessary for an evaluation. A statement setting forth changes in other materials, equipment or other portions of the Work, including changes in the work of other contracts that incorporation of the proposed substitution would require, shall be included. The burden of proof of the merit of the proposed substitution is upon the proposer. The Architect's decision of approval or disapproval of a proposed substitution shall be final.

§ 3.3.3 If the Architect approves a proposed substitution prior to receipt of Bids, such approval will be set forth in an Addendum. Bidders shall not rely upon approvals made in any other manner.

§ 3.3.4 No substitutions will be considered after the Contract award unless specifically provided for in the Contract Documents.

§ 3.4 Addenda

§ 3.4.1 Addenda will be transmitted to all who are known by the issuing office to have received a complete set of Bidding Documents.

§ 3.4.2 Copies of Addenda will be made available for inspection wherever Bidding Documents are on file for that purpose.

§ 3.4.3 Addenda will be issued no later than four days prior to the date for receipt of Bids except an Addendum withdrawing the request for Bids or one which includes postponement of the date for receipt of Bids.

§ 3.4.4 Each Bidder shall ascertain prior to submitting a Bid that the Bidder has received all Addenda issued, and the Bidder shall acknowledge their receipt in the Bid.

ARTICLE 4 BIDDING PROCEDURES

§ 4.1 Preparation of Bids

§ 4.1.1 Bids shall be submitted on the forms included with the Bidding Documents.

§ 4.1.2 All blanks on the bid form shall be legibly executed in a non-erasable medium.

§ 4.1.3 Sums shall be expressed in both words and figures. In case of discrepancy, the amount written in words shall govern.

§ 4.1.4 Interlineations, alterations and erasures must be initialed by the signer of the Bid.

§ 4.1.5 All requested Alternates shall be bid. If no change in the Base Bid is required, enter “No Change.”

§ 4.1.6 Where two or more Bids for designated portions of the Work have been requested, the Bidder may, without forfeiture of the bid security, state the Bidder’s refusal to accept award of less than the combination of Bids stipulated by the Bidder. The Bidder shall make no additional stipulations on the bid form nor qualify the Bid in any other manner.

§ 4.1.7 Each copy of the Bid shall state the legal name of the Bidder and the nature of legal form of the Bidder. The Bidder shall provide evidence of legal authority to perform within the jurisdiction of the Work. Each copy shall be signed by the person or persons legally authorized to bind the Bidder to a contract. A Bid by a corporation shall further give the state of incorporation and have the corporate seal affixed. A Bid submitted by an agent shall have a current power of attorney attached certifying the agent’s authority to bind the Bidder.

§ 4.2 Bid Security

§ 4.2.1 Each Bid shall be accompanied by a bid security in the form and amount required if so stipulated in the Instructions to Bidders. The Bidder pledges to enter into a Contract with the Owner on the terms stated in the Bid and will, if required, furnish bonds covering the faithful performance of the Contract and payment of all obligations arising thereunder. Should the Bidder refuse to enter into such Contract or fail to furnish such bonds if required, the amount of the bid security shall be forfeited to the Owner as liquidated damages, not as a penalty. The amount of the bid security shall not be forfeited to the Owner in the event the Owner fails to comply with Section 6.2.

§ 4.2.2 If a surety bond is required, it shall be written on AIA Document A310™, Bid Bond, unless otherwise provided in the Bidding Documents, and the attorney-in-fact who executes the bond on behalf of the surety shall affix to the bond a certified and current copy of the power of attorney.

§ 4.2.3 The Owner will have the right to retain the bid security of Bidders to whom an award is being considered until either (a) the Contract has been executed and bonds, if required, have been furnished, or (b) the specified time has elapsed so that Bids may be withdrawn or (c) all Bids have been rejected.

§ 4.3 Submission of Bids

§ 4.3.1 All copies of the Bid, the bid security, if any, and any other documents required to be submitted with the Bid shall be enclosed in a sealed opaque envelope. The envelope shall be addressed to the party receiving the Bids and shall be identified with the Project name, the Bidder’s name and address and, if applicable, the designated portion of the Work for which the Bid is submitted. If the Bid is sent by mail, the sealed envelope shall be enclosed in a separate mailing envelope with the notation “SEALED BID ENCLOSED” on the face thereof.

§ 4.3.2 Bids shall be deposited at the designated location prior to the time and date for receipt of Bids. Bids received after the time and date for receipt of Bids will be returned unopened.

§ 4.3.3 The Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bids.

§ 4.3.4 Oral, telephonic, telegraphic, facsimile or other electronically transmitted bids will not be considered.

§ 4.4 Modification or Withdrawal of Bid

§ 4.4.1 A Bid may not be modified, withdrawn or canceled by the Bidder during the stipulated time period following the time and date designated for the receipt of Bids, and each Bidder so agrees in submitting a Bid.

§ 4.4.2 Prior to the time and date designated for receipt of Bids, a Bid submitted may be modified or withdrawn by notice to the party receiving Bids at the place designated for receipt of Bids. Such notice shall be in writing over the signature of the Bidder. Written confirmation over the signature of the Bidder shall be received, and date- and time-stamped by the receiving party on or before the date and time set for receipt of Bids. A change shall be so worded as not to reveal the amount of the original Bid.

§ 4.4.3 Withdrawn Bids may be resubmitted up to the date and time designated for the receipt of Bids provided that they are then fully in conformance with these Instructions to Bidders.

§ 4.4.4 Bid security, if required, shall be in an amount sufficient for the Bid as resubmitted.

ARTICLE 5 CONSIDERATION OF BIDS

§ 5.1 Opening of Bids

At the discretion of the Owner, if stipulated in the Advertisement or Invitation to Bid, the properly identified Bids received on time will be publicly opened and will be read aloud. An abstract of the Bids may be made available to Bidders.

§ 5.2 Rejection of Bids

The Owner shall have the right to reject any or all Bids. A Bid not accompanied by a required bid security or by other data required by the Bidding Documents, or a Bid which is in any way incomplete or irregular is subject to rejection.

§ 5.3 Acceptance of Bid (Award)

§ 5.3.1 It is the intent of the Owner to award a Contract to the lowest qualified Bidder provided the Bid has been submitted in accordance with the requirements of the Bidding Documents and does not exceed the funds available. The Owner shall have the right to waive informalities and irregularities in a Bid received and to accept the Bid which, in the Owner's judgment, is in the Owner's own best interests.

§ 5.3.2 The Owner shall have the right to accept Alternates in any order or combination, unless otherwise specifically provided in the Bidding Documents, and to determine the low Bidder on the basis of the sum of the Base Bid and Alternates accepted.

ARTICLE 6 POST-BID INFORMATION

§ 6.1 Contractor's Qualification Statement

Bidders to whom award of a Contract is under consideration shall submit to the Architect, upon request, a properly executed AIA Document A305™, Contractor's Qualification Statement, unless such a Statement has been previously required and submitted as a prerequisite to the issuance of Bidding Documents.

§ 6.2 Owner's Financial Capability

The Owner shall, at the request of the Bidder to whom award of a Contract is under consideration and no later than seven days prior to the expiration of the time for withdrawal of Bids, furnish to the Bidder reasonable evidence that financial arrangements have been made to fulfill the Owner's obligations under the Contract. Unless such reasonable evidence is furnished, the Bidder will not be required to execute the Agreement between the Owner and Contractor.

§ 6.3 Submittals

§ 6.3.1 The Bidder shall, as soon as practicable or as stipulated in the Bidding Documents, after notification of selection for the award of a Contract, furnish to the Owner through the Architect in writing:

- .1 a designation of the Work to be performed with the Bidder's own forces;
- .2 names of the manufacturers, products, and the suppliers of principal items or systems of materials and equipment proposed for the Work; and
- .3 names of persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for the principal portions of the Work.

§ 6.3.2 The Bidder will be required to establish to the satisfaction of the Architect and Owner the reliability and responsibility of the persons or entities proposed to furnish and perform the Work described in the Bidding Documents.

§ 6.3.3 Prior to the execution of the Contract, the Architect will notify the Bidder in writing if either the Owner or Architect, after due investigation, has reasonable objection to a person or entity proposed by the Bidder. If the Owner or Architect has reasonable objection to a proposed person or entity, the Bidder may, at the Bidder's option, (1) withdraw the Bid or (2) submit an acceptable substitute person or entity with an adjustment in the Base Bid or Alternate Bid to cover the difference in cost occasioned by such substitution. The Owner may accept the adjusted bid price or disqualify the Bidder. In the event of either withdrawal or disqualification, bid security will not be forfeited.

§ 6.3.4 Persons and entities proposed by the Bidder and to whom the Owner and Architect have made no reasonable objection must be used on the Work for which they were proposed and shall not be changed except with the written consent of the Owner and Architect.

ARTICLE 7 PERFORMANCE BOND AND PAYMENT BOND

§ 7.1 Bond Requirements

§ 7.1.1 If stipulated in the Bidding Documents, the Bidder shall furnish bonds covering the faithful performance of the Contract and payment of all obligations arising thereunder. Bonds may be secured through the Bidder's usual sources.

§ 7.1.2 If the furnishing of such bonds is stipulated in the Bidding Documents, the cost shall be included in the Bid. If the furnishing of such bonds is required after receipt of bids and before execution of the Contract, the cost of such bonds shall be added to the Bid in determining the Contract Sum.

§ 7.1.3 If the Owner requires that bonds be secured from other than the Bidder's usual sources, changes in cost will be adjusted as provided in the Contract Documents.

§ 7.2 Time of Delivery and Form of Bonds

§ 7.2.1 The Bidder shall deliver the required bonds to the Owner not later than three days following the date of execution of the Contract. If the Work is to be commenced prior thereto in response to a letter of intent, the Bidder shall, prior to commencement of the Work, submit evidence satisfactory to the Owner that such bonds will be furnished and delivered in accordance with this Section 7.2.1.

§ 7.2.2 Unless otherwise provided, the bonds shall be written on AIA Document A312™, Performance Bond and Payment Bond. Both bonds shall be written in the amount of the Contract Sum.

§ 7.2.3 The bonds shall be dated on or after the date of the Contract.

§ 7.2.4 The Bidder shall require the attorney-in-fact who executes the required bonds on behalf of the surety to affix thereto a certified and current copy of the power of attorney.

ARTICLE 8 FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR

Unless otherwise required in the Bidding Documents, the Agreement for the Work will be written on AIA Document A101™, Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum.

AIA® Document A305™ – 1986

Contractor's Qualification Statement

The Undersigned certifies under oath that the information provided herein is true and sufficiently complete so as not to be misleading.

SUBMITTED TO:

ADDRESS:

SUBMITTED BY:

NAME:

ADDRESS:

PRINCIPAL OFFICE:

- ☐ Corporation
- ☐ Partnership
- ☐ Individual
- ☐ Joint Venture
- ☐ Other

NAME OF PROJECT (if applicable):

TYPE OF WORK (file separate form for each Classification of Work):

- ☐ General Construction
- ☐ HVAC
- ☐ Electrical
- ☐ Plumbing
- ☐ Other (please specify)

§ 1. ORGANIZATION

§ 1.1 How many years has your organization been in business as a Contractor?

§ 1.2 How many years has your organization been in business under its present business name?

§ 1.2.1 Under what other or former names has your organization operated?

§ 1.3 If your organization is a corporation, answer the following:

§ 1.3.1 Date of incorporation:

§ 1.3.2 State of incorporation:

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§ 1.3.3 President's name:
§ 1.3.4 Vice-president's name(s)

§ 1.3.5 Secretary's name:
§ 1.3.6 Treasurer's name:

§ 1.4 If your organization is a partnership, answer the following:

§ 1.4.1 Date of organization:
§ 1.4.2 Type of partnership (if applicable):
§ 1.4.3 Name(s) of general partner(s)

§ 1.5 If your organization is individually owned, answer the following:

§ 1.5.1 Date of organization:
§ 1.5.2 Name of owner:

§ 1.6 If the form of your organization is other than those listed above, describe it and name the principals:

§ 2. LICENSING

§ 2.1 List jurisdictions and trade categories in which your organization is legally qualified to do business, and indicate registration or license numbers, if applicable.

§ 2.2 List jurisdictions in which your organization's partnership or trade name is filed.

§ 3. EXPERIENCE

§ 3.1 List the categories of work that your organization normally performs with its own forces.

§ 3.2 Claims and Suits. (If the answer to any of the questions below is yes, please attach details.)

§ 3.2.1 Has your organization ever failed to complete any work awarded to it?

§ 3.2.2 Are there any judgments, claims, arbitration proceedings or suits pending or outstanding against your organization or its officers?

§ 3.2.3 Has your organization filed any law suits or requested arbitration with regard to construction contracts within the last five years?

§ 3.3 Within the last five years, has any officer or principal of your organization ever been an officer or principal of another organization when it failed to complete a construction contract? (If the answer is yes, please attach details.)

§ 3.4 On a separate sheet, list major construction projects your organization has in progress, giving the name of project, owner, architect, contract amount, percent complete and scheduled completion date.

§ 3.4.1 State total worth of work in progress and under contract:

§ 3.5 On a separate sheet, list the major projects your organization has completed in the past five years, giving the name of project, owner, architect, contract amount, date of completion and percentage of the cost of the work performed with your own forces.

§ 3.5.1 State average annual amount of construction work performed during the past five years:

§ 3.6 On a separate sheet, list the construction experience and present commitments of the key individuals of your organization.

§ 4. REFERENCES

§ 4.1 Trade References:

§ 4.2 Bank References:

§ 4.3 Surety:

§ 4.3.1 Name of bonding company:

§ 4.3.2 Name and address of agent:

§ 5. FINANCING

§ 5.1 Financial Statement.

§ 5.1.1 Attach a financial statement, preferably audited, including your organization's latest balance sheet and income statement showing the following items:

Current Assets (e.g., cash, joint venture accounts, accounts receivable, notes receivable, accrued income, deposits, materials inventory and prepaid expenses):

Net Fixed Assets;

Other Assets;

Current Liabilities (e.g., accounts payable, notes payable, accrued expenses, provision for income taxes, advances, accrued salaries and accrued payroll taxes);

Other Liabilities (e.g., capital, capital stock, authorized and outstanding shares par values, earned surplus and retained earnings).

§ 5.1.2 Name and address of firm preparing attached financial statement, and date thereof:

§ 5.1.3 Is the attached financial statement for the identical organization named on page one?

§ 5.1.4 If not, explain the relationship and financial responsibility of the organization whose financial statement is provided (e.g., parent-subsidary).

§ 5.2 Will the organization whose financial statement is attached act as guarantor of the contract for construction?

§ 6. SIGNATURE

§ 6.1 Dated at this day of

Name of Organization:

By:

Title:

§ 6.2

M being duly sworn deposes and says that the information provided herein is true and sufficiently complete so as not to be misleading.

[Subscribed and sworn before me this day of 20

Notary Public:

My Commission Expires:

SECTION 003000
FORM OF PROPOSAL

Note: All forms in this Section must be completed and supplied with the bid documents.

1.01 BASE BID SUM

Gentlemen:

Having examined the Bidding and Contract Documents prepared for the project entitled "RESTORATION OF THE 1913 LEON COUNTY JAIL, CENTERVILLE, TEXAS", and having inspected the site and being familiar with such local conditions as may affect the work, I (we) propose to furnish all labor and/or materials necessary for and reasonably incidental to the proper execution and completion of all work as described in the Contract Documents including Construction, Electrical, and Masonry Restoration for the Base Bid Sum of.

FOR THE SUM OF

_____ (\$ _____) Dollars
(Base Bid amount)

1.02 ALTERNATE #1: RESTORATION OF FRONT DOOR.

FOR THE SUM OF

add: _____ (\$ _____) Dollars
(Alternate #1 amount)

1.03 PROJECT SUPERVISION

The job superintendent for this project will be

1.04 RECEIPT OF ADDENDA

I/we acknowledge receipt of Addenda _____, which shall be a part of the Contract Documents.

1.04 TIME FOR COMPLETION

Time for completion of this contract shall be computed beginning on Contractor's in-house ability to process the construction contracts, contractor's current work load and contractor's ability to mobilize.

The work to be constructed under this contract shall be completed in _____
calendar days.

1.05 CHANGES IN WORK FEE

General contractor's fee for additional work that may be required: _____%.

Submitted by

(Signature of owner or authorized agent)

Date _____ by _____
(Printed name)

(Full Legal Name of Bidding General Contractor)

DISCLOSURE STATEMENT

The following Disclosure Statement shall become a part of this bid:

- A. By signing this bid, a bidder affirms that he/she has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan gratuity, special discount, trip, favor, or service to a public servant in connection with the bid submitted.
- B. ALL CONTRACTS AND AGREEMENTS between Merchants and the Leon County shall strictly adhere to the statutes as set forth in the Uniform Commercial Code as last amended in 1977 by the American Law Institute in the National Conference of Commissioners on uniform state law. Reference: Uniform Commercial Code, 1987 Official Text.
- C. By signing this bid, a bidder affirms that, to the best of his/her knowledge, this bid has been arrived at independently, and is submitted without collusion with anyone to obtain information or gain any favors that would in any way limit competition or give them an unfair advantage over other bidders in the award of this bid.

IN ORDER TO QUALIFY BID, THIS DISCLOSURE STATEMENT SHOULD BE SIGNED BY A PERSON AUTHORIZED TO MAKE THE FINANCIAL COMMITMENT FOR THE BIDDER AND RETURNED WITH THIS BID.

DATE:_____RESPECTFULLY SUBMITTED BY:_____

AUTHORIZED SIGNATURE:_____

NAME OF COMPANY:_____

NON-COLLUSION BIDDING AFFIDAVIT

The undersigned affirms that they are duly authorized to execute this contract, that this company, corporation, firm, partnership or individual has not prepared this bid in collusion with any other Bidder, and that the contents of this bid as to prices, terms or conditions of said bid have not been communicated by the undersigned nor by any employee or agent to any other person engaged in this type of business prior to the official opening of this bid.

Vendor_____

Address_____

Phone_____Fax Number_____

Bidder (Signature)_____

Bidder (Printed Name)_____

Position with Company_____

Signature of Company Official
Authorizing this Bid_____

Company Official (Printed Name)_____

Official Position_____

DOCUMENTATION OF CRIMINAL HISTORY

The proposer must give notice to Leon County if the person or owner or operator of the business has been convicted of a felony. Each proposer must list one or the other options below as a formal response to this question. Failure to fill in this area may result in rejection of the proposal. The requirements of this subsection do not apply to a publicly held corporation.

_____ No person, owner, or operator of the business listed below has been convicted of a felony.

_____ Yes, a person, owner, or operator of the business listed below has been convicted of a felony.

(Business Name)

(Authorized agent)

The Owner may terminate a contract with a person or business if Leon County determines that the person or business failed to give such notice or misrepresented the conduct resulting in the conviction.

AWARD OF CONTRACT

The undersigned agrees, if awarded the Contract, to execute the Contract and Performance and Payment Bonds as required within ten (10) days after notification of award and to commence work on or before the commencement date stated by the Owner in a Notice to Proceed; such commencement date shall be ten (10) or more days after the date of the Notice to Proceed. It is understood that the Owner reserves the right to accept or reject any and all Proposals and to waive proposal irregularities. It is further agreed that this Bid shall be valid and not withdrawn for a period of forty five (45) days from the date of opening thereof.

Respectfully submitted,

By _____

Title _____

Firm _____

Address _____

(SEAL: If proposal by a corporation)

City, State _____

Fill in the applicable information:

A Corporation, chartered in the State of _____,
authorized to do business in the State of Texas

A partnership, composed of _____ and

An individual, operating under the name of _____

A joint venture, operating under the name of _____;

the joint venturers are _____ and

END OF SECTION

SECTION 003010
BID BOND

- 1.01 Bid submission shall include a Bid Bond in the amount of the base bid plus any alternates. See attached **American Institute of Architects standard Document No. A310, Bid Bond**, 2010 Edition. This form is included herein for information, the contractor is allowed to submit a standard surety executed bond.
- 1.02 A bidder is subject to Bid Bond forfeiture at the discretion of the Owner for the following circumstances:
- a. The Contractor withdraws submitted bid after bids are opened.
 - b. The Contractor proposes a different price after bids are opened.
 - c. There is a discrepancy in the Contractors bid submission and an agreement cannot be reached between the Owner and Contractor.
 - d. The proposing Contractor misrepresents qualifications or makes false statements in submitted documents.
- 1.03 The bid bond amount shall be calculated at Five (5) percent of the total of the base bid amount plus all alternates.

END OF SECTION 003010

 AIA® Document A310™ – 2010

Bid Bond

CONTRACTOR:

(Name, legal status and address)

SURETY:

(Name, legal status and principal place of business)

OWNER:

(Name, legal status and address)

BOND AMOUNT:

PROJECT:

(Name, location or address, and Project number, if any)

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this _____ day of _____

_____	_____
(Witness)	(Contractor as Principal) (Seal)
_____	_____
	(Title)
_____	_____
(Witness)	(Surety) (Seal)
_____	_____
	(Title)

CAUTION: You should sign an original AIA Contract Document, on which this text appears in RED. An original assures that changes will not be obscured.

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SECTION 005000
CONTRACT FORMS

GENERAL

1.01 Agreement Form Between Owner and Contractor:

- A. The Owner and the successful Contractor shall enter into Contract for the Construction of the Project using Standard American Institute of Architects Document A104 – 2017 Edition.

1.02 Surety Bond Forms:

- A. Any performance Bond Form and Labor and Material Payment Bond which are approved by the Attorney General of Texas, are in compliance with the Hardeman Act, and have as Surety an entity authorized to do business in the State of Texas are acceptable, each in the amount of 100% of the contract sum. Obligee shall be the Owner. The Contractor shall be required to file a copy of the Payment Bond with the County Clerk and shall pay all related fees.
- B. Evidence that a copy of the Payment Bond has been filed with the County Clerk shall be delivered to the Architect before the first Certificate for Payment will be issued to the Owner.

1.03 Certificate of Insurance Form:

- A. The Contractor shall purchase and maintain such insurance as will meet the provisions of the Conditions of the Contract for Construction of these specifications. Prior to commencement of the work, Certificates of Insurance shall be filed with the Owner for his acceptance.
- B. The Certificate of Insurance form shall contain the following information:
 - 1. Name and Address of Insured
 - 2. Provide Name and Location
 - 3. Owner
 - 4. Companies Affording Coverage
 - 5. Type of Insurance – (See Section 00700)
 - 6. Policy Number
 - 7. Expiration Date

8. Limits of Liability in Thousands, each occurrence and aggregate.
 9. Products and Completed Operations coverage will be maintained for a minimum period of (☐) 1 (☐) 2 year(s) after final payment. (Per Section 00700).
 10. Has each of the above listed policies been endorsed to reflect the company's obligation to notify the addressee in the event of cancellation of non-renewal? (☐) yes (☐) no
 11. Certification: I hereby certify that I am an authorized representative of each of the insurance companies listed above, and that the coverage afforded under the policies listed above will not be cancelled or allowed to expire unless thirty (30) days written notice has been given the Owner.
 12. Name of Issuing Agency and Address
 13. Signature of Authorized Representative
 14. Date of Issue
- C. The AIA Form G705, Certificate of Insurance contains all the information required above. Any other standard form containing the required information and language will be acceptable.

END OF SECTION



AIA[®] Document A104[™] – 2017

Standard Abbreviated Form of Agreement Between Owner and Contractor

AGREEMENT made as of the _____ day of _____ in the year _____
(In words, indicate day, month and year.)

BETWEEN the Owner:
(Name, legal status, address and other information)

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

and the Contractor:
(Name, legal status, address and other information)

for the following Project:
(Name, location and detailed description)

The Architect:
(Name, legal status, address and other information)

The Owner and Contractor agree as follows.

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TABLE OF ARTICLES

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2	DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION
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EXHIBIT A DETERMINATION OF THE COST OF THE WORK

ARTICLE 1 THE WORK OF THIS CONTRACT

The Contractor shall execute the Work described in the Contract Documents, except as specifically indicated in the Contract Documents to be the responsibility of others.

ARTICLE 2 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

§ 2.1 The date of commencement of the Work shall be:

(Check one of the following boxes.)

- ☐ The date of this Agreement.
- ☐ A date set forth in a notice to proceed issued by the Owner.

- ☐ Established as follows:
(Insert a date or a means to determine the date of commencement of the Work.)

If a date of commencement of the Work is not selected, then the date of commencement shall be the date of this Agreement.

§ 2.2 The Contract Time shall be measured from the date of commencement.

§ 2.3 Substantial Completion

§ 2.3.1 Subject to adjustments of the Contract Time as provided in the Contract Documents, the Contractor shall achieve Substantial Completion of the entire Work:

(Check the appropriate box and complete the necessary information.)

- ☐ Not later than () calendar days from the date of commencement of the Work.
- ☐ By the following date:

§ 2.3.2 Subject to adjustments of the Contract Time as provided in the Contract Documents, if portions of the Work are to be completed prior to Substantial Completion of the entire Work, the Contractor shall achieve Substantial Completion of such portions by the following dates:

Portion of Work

Substantial Completion Date

§ 2.3.3 If the Contractor fails to achieve Substantial Completion as provided in this Section 2.3, liquidated damages, if any, shall be assessed as set forth in Section 3.5.

ARTICLE 3 CONTRACT SUM

§ 3.1 The Owner shall pay the Contractor the Contract Sum in current funds for the Contractor's performance of the Contract. The Contract Sum shall be one of the following:

(Check the appropriate box.)

- ☐ Stipulated Sum, in accordance with Section 3.2 below
- ☐ Cost of the Work plus the Contractor's Fee, in accordance with Section 3.3 below
- ☐ Cost of the Work plus the Contractor's Fee with a Guaranteed Maximum Price, in accordance with Section 3.4 below

(Based on the selection above, complete Section 3.2, 3.3 or 3.4 below.)

§ 3.2 The Stipulated Sum shall be (\$), subject to additions and deductions as provided in the Contract Documents.

§ 3.2.1 The Stipulated Sum is based upon the following alternates, if any, which are described in the Contract Documents and are hereby accepted by the Owner:

(State the numbers or other identification of accepted alternates. If the bidding or proposal documents permit the Owner to accept other alternates subsequent to the execution of this Agreement, attach a schedule of such other alternates showing the amount for each and the date when that amount expires.)

§ 3.2.2 Unit prices, if any:

(Identify the item and state the unit price and the quantity limitations, if any, to which the unit price will be applicable.)

Item	Units and Limitations	Price per Unit (\$0.00)
------	-----------------------	-------------------------

§ 3.2.3 Allowances, if any, included in the stipulated sum:

(Identify each allowance.)

Item	Price
------	-------

§ 3.3 Cost of the Work Plus Contractor's Fee

§ 3.3.1 The Cost of the Work is as defined in Exhibit A, Determination of the Cost of the Work.

§ 3.3.2 The Contractor's Fee:

(State a lump sum, percentage of Cost of the Work or other provision for determining the Contractor's Fee and the method of adjustment to the Fee for changes in the Work.)

§ 3.4 Cost of the Work Plus Contractor's Fee With a Guaranteed Maximum Price

§ 3.4.1 The Cost of the Work is as defined in Exhibit A, Determination of the Cost of the Work.

§ 3.4.2 The Contractor's Fee:

(State a lump sum, percentage of Cost of the Work or other provision for determining the Contractor's Fee and the method of adjustment to the Fee for changes in the Work.)

§ 3.4.3 Guaranteed Maximum Price

§ 3.4.3.1 The sum of the Cost of the Work and the Contractor's Fee is guaranteed by the Contractor not to exceed (\$), subject to additions and deductions by changes in the Work as provided in the Contract Documents.

This maximum sum is referred to in the Contract Documents as the Guaranteed Maximum Price. Costs which would cause the Guaranteed Maximum Price to be exceeded shall be paid by the Contractor without reimbursement by the Owner.

(Insert specific provisions if the Contractor is to participate in any savings.)

§ 3.4.3.2 The Guaranteed Maximum Price is based on the following alternates, if any, which are described in the Contract Documents and are hereby accepted by the Owner:

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(State the numbers or other identification of accepted alternates. If the bidding or proposal documents permit the Owner to accept other alternates subsequent to the execution of this Agreement, attach a schedule of such other alternates showing the amount for each and the date when that amount expires.)

§ 3.4.3.3 Unit Prices, if any:

(Identify the item and state the unit price and the quantity limitations, if any, to which the unit price will be applicable.)

Item	Units and Limitations	Price per Unit (\$0.00)
------	-----------------------	-------------------------

§ 3.4.3.4 Allowances, if any, included in the Guaranteed Maximum Price:

(Identify each allowance.)

Item	Price
------	-------

§ 3.4.3.5 Assumptions, if any, on which the Guaranteed Maximum Price is based:

§ 3.4.3.6 To the extent that the Contract Documents are anticipated to require further development, the Guaranteed Maximum Price includes the costs attributable to such further development consistent with the Contract Documents and reasonably inferable therefrom. Such further development does not include changes in scope, systems, kinds and quality of materials, finishes or equipment, all of which, if required, shall be incorporated by Change Order.

§ 3.4.3.7 The Owner shall authorize preparation of revisions to the Contract Documents that incorporate the agreed-upon assumptions contained in Section 3.4.3.5. The Owner shall promptly furnish such revised Contract Documents to the Contractor. The Contractor shall notify the Owner and Architect of any inconsistencies between the agreed-upon assumptions contained in Section 3.4.3.5 and the revised Contract Documents.

§ 3.5 Liquidated damages, if any:

(Insert terms and conditions for liquidated damages, if any.)

ARTICLE 4 PAYMENT

§ 4.1 Progress Payments

§ 4.1.1 Based upon Applications for Payment submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

§ 4.1.2 The period covered by each Application for Payment shall be one calendar month ending on the last day of the month, or as follows:

§ 4.1.3 Provided that an Application for Payment is received by the Architect not later than the _____ day of _____ a month, the Owner shall make payment of the certified amount to the Contractor not later than the _____ day of the _____ month. If an Application for Payment is received by the Architect after the date fixed above, payment shall be made by the Owner not later than () days after the Architect receives the Application for Payment.

(Federal, state or local laws may require payment within a certain period of time.)

§ 4.1.4 For each progress payment made prior to Substantial Completion of the Work, the Owner may withhold retainage from the payment otherwise due as follows:

(Insert a percentage or amount to be withheld as retainage from each Application for Payment and any terms for reduction of retainage during the course of the Work. The amount of retainage may be limited by governing law.)

§ 4.1.5 Payments due and unpaid under the Contract shall bear interest from the date payment is due at the rate stated below, or in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located.
(Insert rate of interest agreed upon, if any.)

%

§ 4.2 Final Payment

§ 4.2.1 Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner to the Contractor when

- .1 the Contractor has fully performed the Contract except for the Contractor's responsibility to correct Work as provided in Section 18.2, and to satisfy other requirements, if any, which extend beyond final payment;
- .2 the Contractor has submitted a final accounting for the Cost of the Work, where payment is on the basis of the Cost of the Work with or without a Guaranteed Maximum Price; and
- .3 a final Certificate for Payment has been issued by the Architect in accordance with Section 15.7.1.

§ 4.2.2 The Owner's final payment to the Contractor shall be made no later than 30 days after the issuance of the Architect's final Certificate for Payment, or as follows:

ARTICLE 5 DISPUTE RESOLUTION

§ 5.1 Binding Dispute Resolution

For any claim subject to, but not resolved by, mediation pursuant to Section 21.5, the method of binding dispute resolution shall be as follows:

(Check the appropriate box.)

- ☐ Arbitration pursuant to Section 21.6 of this Agreement
- ☐ Litigation in a court of competent jurisdiction

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/

☐ Other (Specify)

If the Owner and Contractor do not select a method of binding dispute resolution, or do not subsequently agree in writing to a binding dispute resolution method other than litigation, claims will be resolved in a court of competent jurisdiction.

ARTICLE 6 ENUMERATION OF CONTRACT DOCUMENTS

§ 6.1 The Contract Documents are defined in Article 7 and, except for Modifications issued after execution of this Agreement, are enumerated in the sections below.

§ 6.1.1 The Agreement is this executed AIA Document A104™-2017, Standard Abbreviated Form of Agreement Between Owner and Contractor.

§ 6.1.2 AIA Document E203™-2013, Building Information Modeling and Digital Data Exhibit, dated as indicated below:

(Insert the date of the E203-2013 incorporated into this Agreement.)

§ 6.1.3 The Supplementary and other Conditions of the Contract:

Document	Title	Date	Pages
----------	-------	------	-------

§ 6.1.4 The Specifications:

(Either list the Specifications here or refer to an exhibit attached to this Agreement.)

Section	Title	Date	Pages
---------	-------	------	-------

§ 6.1.5 The Drawings:

(Either list the Drawings here or refer to an exhibit attached to this Agreement.)

Number	Title	Date
--------	-------	------

§ 6.1.6 The Addenda, if any:

Number	Date	Pages
--------	------	-------

Portions of Addenda relating to bidding or proposal requirements are not **part of the Contract Documents unless** the bidding or proposal requirements are enumerated in this Article 6.

§ 6.1.7 Additional documents, if any, forming part of the Contract Documents:

.1 Other Exhibits:

(Check all boxes that apply.)

☐ Exhibit A, Determination of the Cost of the Work.

☐ AIA Document E204™-2017, Sustainable Projects Exhibit, dated as indicated below:
(Insert the date of the E204-2017 incorporated into this Agreement.)

☐ The Sustainability Plan:

Title	Date	Pages
-------	------	-------

☐ Supplementary and other Conditions of the Contract:

Document	Title	Date	Pages
----------	-------	------	-------

.2 Other documents, if any, listed below:

(List here any additional documents that are intended to form part of the Contract Documents.)

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ARTICLE 7 GENERAL PROVISIONS

§ 7.1 The Contract Documents

The Contract Documents are enumerated in Article 6 and consist of this Agreement (including, if applicable, Supplementary and other Conditions of the Contract), Drawings, Specifications, Addenda issued prior to the execution of this Agreement, other documents listed in this Agreement, and Modifications issued after execution of this Agreement. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive, or (4) a written order for a minor change in the Work issued by the Architect. The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.

§ 7.2 The Contract

The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind between any persons or entities other than the Owner and the Contractor.

§ 7.3 The Work

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment, and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or a part of the Project.

§ 7.4 Instruments of Service

Instruments of Service are representations, in any medium of expression now known or later developed, of the tangible and intangible creative work performed by the Architect and the Architect's consultants under their respective professional services agreements. Instruments of Service may include, without limitation, studies, surveys, models, sketches, drawings, specifications, and other similar materials.

§ 7.5 Ownership and Use of Drawings, Specifications and Other Instruments of Service

§ 7.5.1 The Architect and the Architect's consultants shall be deemed the authors and owners of their respective Instruments of Service, including the Drawings and Specifications, and will retain all common law, statutory and other reserved rights in their Instruments of Service, including copyrights. The Contractor, Subcontractors, Sub-subcontractors, and suppliers shall not own or claim a copyright in the Instruments of Service. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with the Project is not to be construed as publication in derogation of the Architect's or Architect's consultants' reserved rights.

§ 7.5.2 The Contractor, Subcontractors, Sub-subcontractors and suppliers are authorized to use and reproduce the Instruments of Service provided to them, subject to the protocols established pursuant to Sections 7.6 and 7.7, solely and exclusively for execution of the Work. All copies made under this authorization shall bear the copyright notice, if any, shown on the Instruments of Service. The Contractor, Subcontractors, Sub-subcontractors, and suppliers may not use the Instruments of Service on other projects or for additions to this Project outside the scope of the Work without the specific written consent of the Owner, Architect and the Architect's consultants.

§ 7.6 Digital Data Use and Transmission

The parties shall agree upon protocols governing the transmission and use of Instruments of Service or any other information or documentation in digital form. The parties will use AIA Document E203™-2013, Building Information Modeling and Digital Data Exhibit, to establish the protocols for the development, use, transmission, and exchange of digital data.

§ 7.7 Building Information Models Use and Reliance

Any use of, or reliance on, all or a portion of a building information model without agreement to protocols governing the use of, and reliance on, the information contained in the model and without having those protocols set forth in AIA Document E203™-2013, Building Information Modeling and Digital Data Exhibit, and the requisite AIA Document G202™-2013, Project Building Information Modeling Protocol Form, shall be at the using or relying party's sole risk and without liability to the other party and its contractors or consultants, the authors of, or contributors to, the building information model, and each of their agents and employees.

§ 7.8 Severability

The invalidity of any provision of the Contract Documents shall not invalidate the Contract or its remaining provisions. If it is determined that any provision of the Contract Documents violates any law, or is otherwise invalid or unenforceable, then that provision shall be revised to the extent necessary to make that provision legal and enforceable. In such case the Contract Documents shall be construed, to the fullest extent permitted by law, to give effect to the parties' intentions and purposes in executing the Contract.

§ 7.9 Notice

§ 7.9.1 Except as otherwise provided in Section 7.9.2, where the Contract Documents require **one party to notify** or give notice to the other party, such notice shall be provided in writing to the designated representative of the party to whom the notice is addressed and shall be deemed to have been duly served if delivered in person, by mail, by courier, or by electronic transmission in accordance with AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, if completed, or as otherwise set forth below:

(If other than in accordance with AIA Document E203–2013, insert requirements for delivering Notice in electronic format such as name, title and email address of the recipient and whether and how the system will be required to generate a read receipt for the transmission.)

§ 7.9.2 Notice of Claims shall be provided in writing and shall be deemed to have been duly served only if delivered to the designated representative of the party to whom the notice is addressed by certified or registered mail, or by courier providing proof of delivery.

§ 7.10 Relationship of the Parties

Where the Contract is based on the Cost of the Work plus the Contractor's Fee, with or without a Guaranteed Maximum Price, the Contractor accepts the relationship of trust and confidence established by this Agreement and covenants with the Owner to cooperate with the Architect and exercise the Contractor's skill and judgment in furthering the interests of the Owner; to furnish efficient business administration and supervision; to furnish at all times an adequate supply of workers and materials; and to perform the Work in an expeditious and economical manner consistent with the Owner's interests. The Owner agrees to furnish and approve, in a timely manner, information required by the Contractor and to make payments to the Contractor in accordance with the requirements of the Contract Documents.

ARTICLE 8 OWNER

§ 8.1 Information and Services Required of the Owner

§ 8.1.1 Prior to commencement of the Work, at the written request by the Contractor, the Owner shall furnish to the Contractor reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract. The Contractor shall have no obligation to commence the Work until the Owner provides such evidence. If commencement of the Work is delayed under this Section 8.1.1, the Contract Time shall be extended appropriately.

§ 8.1.2 The Owner shall furnish all necessary surveys and a legal description of the site.

§ 8.1.3 The Contractor shall be entitled to rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.

§ 8.1.4 Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, including those required under Section 9.6.1, the Owner shall secure and pay for other necessary approvals, easements, assessments, and charges required for the construction, use, or occupancy of permanent structures or for permanent changes in existing facilities.

§ 8.2 Owner's Right to Stop the Work

If the Contractor fails to correct Work which is not in accordance with the requirements of the Contract Documents, or repeatedly fails to carry out the Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order is eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity.

§ 8.3 Owner's Right to Carry Out the Work

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents, and fails within a ten-day period after receipt of notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, without prejudice to any other remedies the Owner may have, correct such default or neglect. Such action by the Owner and amounts charged to the Contractor are both subject to prior approval of the Architect and the Architect may, pursuant to Section 15.4.3, withhold or nullify a Certificate for Payment in whole or in part, to the extent reasonably necessary to reimburse the Owner for the reasonable cost of correcting such deficiencies, including the Owner's expenses and compensation for the Architect's additional services made necessary by such default, neglect, or failure. If the Contractor disagrees with the actions of the Owner or the Architect, or the amounts claimed as costs to the Owner, the Contractor may file a Claim pursuant to Article 21.

ARTICLE 9 CONTRACTOR

§ 9.1 Review of Contract Documents and Field Conditions by Contractor

§ 9.1.1 Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed and correlated personal observations with requirements of the Contract Documents.

§ 9.1.2 Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner pursuant to Section 8.1.2, shall take field measurements of any existing conditions related to that portion of the Work and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Architect any errors, inconsistencies, or omissions discovered by or made known to the Contractor as a request for information in such form as the Architect may require. It is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional unless otherwise specifically provided in the Contract Documents.

§ 9.1.3 The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Architect any nonconformity discovered by or made known to the Contractor as a request for information in such form as the Architect may require.

§ 9.2 Supervision and Construction Procedures

§ 9.2.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences, and procedures, and for coordinating all portions of the Work under the Contract, unless the Contract Documents give other specific instructions concerning these matters.

§ 9.2.2 The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for or on behalf of the Contractor or any of its Subcontractors.

§ 9.3 Labor and Materials

§ 9.3.1 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for proper execution and completion of the Work whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

§ 9.3.2 The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not skilled in tasks assigned to them.

§ 9.3.3 The Contractor may make a substitution only with the consent of the Owner, after evaluation by the Architect and in accordance with a Modification.

§ 9.4 Warranty

The Contractor warrants to the Owner and Architect that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants

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that the Work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation or normal wear and tear under normal usage. All other warranties required by the Contract Documents shall be issued in the name of the Owner, or shall be transferable to the Owner, and shall commence in accordance with Section 15.6.3.

§ 9.5 Taxes

The Contractor shall pay sales, consumer, use, and other similar taxes that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect.

§ 9.6 Permits, Fees, Notices, and Compliance with Laws

§ 9.6.1 Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for the building permit as well as other permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time bids are received or negotiations concluded.

§ 9.6.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work. If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

§ 9.7 Allowances

The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. The Owner shall select materials and equipment under allowances with reasonable promptness. Allowance amounts shall include the costs to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts. Contractor's costs for unloading and handling at the site, labor, installation, overhead, profit, and other expenses contemplated for stated allowance amounts shall be included in the Contract Sum but not in the allowance.

§ 9.8 Contractor's Construction Schedules

§ 9.8.1 The Contractor, promptly after being awarded the Contract, shall submit for the Owner's and Architect's information a Contractor's construction schedule for the Work. The schedule shall not exceed time limits current under the Contract Documents, shall be revised at appropriate intervals as required by the conditions of the Work and Project, shall be related to the entire Project to the extent required by the Contract Documents, and shall provide for expeditious and practicable execution of the Work.

§ 9.8.2 The Contractor shall perform the Work in general accordance with the most recent schedule submitted to the Owner and Architect.

§ 9.9 Submittals

§ 9.9.1 The Contractor shall review for compliance with the Contract Documents and submit to the Architect Shop Drawings, Product Data, Samples, and similar submittals required by the Contract Documents in coordination with the Contractor's construction schedule and in such sequence as to allow the Architect reasonable time for review. By submitting Shop Drawings, Product Data, Samples, and similar submittals, the Contractor represents to the Owner and Architect that the Contractor has (1) reviewed and approved them; (2) determined and verified materials, field measurements, and field construction criteria related thereto, or will do so; and (3) checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents. The Work shall be in accordance with approved submittals.

§ 9.9.2 Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents.

§ 9.9.3 The Contractor shall not be required to provide professional services that constitute the practice of architecture or engineering unless such services are specifically required by the Contract Documents or unless the Contractor needs to provide such services in order to carry out the Contractor's own responsibilities. If professional design services or certifications by a design professional are specifically required, the Owner and the Architect will specify the performance and design criteria that such services must satisfy. The Contractor shall cause such services or certifications to be provided by an appropriately licensed design professional. If no criteria are specified, the design

shall comply with applicable codes and ordinances. Each Party shall be entitled to rely upon the information provided by the other Party. The Architect will review and approve or take other appropriate action on submittals for the limited purpose of checking for conformance with information provided and the design concept expressed in the Contract Documents. The Architect's review of Shop Drawings, Product Data, Samples, and similar submittals shall be for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. In performing such review, the Architect will approve, or take other appropriate action upon, the Contractor's Shop Drawings, Product Data, Samples, and similar submittals.

§ 9.10 Use of Site

The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, lawful orders of public authorities, and the Contract Documents and shall not unreasonably encumber the site with materials or equipment.

§ 9.11 Cutting and Patching

The Contractor shall be responsible for cutting, fitting, or patching required to complete the Work or to make its parts fit together properly.

§ 9.12 Cleaning Up

The Contractor shall keep the premises and surrounding area free from accumulation of waste materials and rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall remove waste materials, rubbish, the Contractor's tools, construction equipment, machinery, and surplus material from and about the Project.

§ 9.13 Access to Work

The Contractor shall provide the Owner and Architect with access to the Work in preparation and progress wherever located.

§ 9.14 Royalties, Patents and Copyrights

The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Owner and Architect harmless from loss on account thereof, but shall not be responsible for defense or loss when a particular design, process, or product of a particular manufacturer or manufacturers is required by the Contract Documents or where the copyright violations are contained in Drawings, Specifications or other documents prepared by the Owner or Architect. However, if an infringement of a copyright or patent is discovered by, or made known to, the Contractor, the Contractor shall be responsible for the loss unless the information is promptly furnished to the Architect.

§ 9.15 Indemnification

§ 9.15.1 To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Owner, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss, or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity which would otherwise exist as to a party or person described in this Section 9.15.1.

§ 9.15.2 In claims against any person or entity indemnified under this Section 9.15 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, the indemnification obligation under Section 9.15.1 shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or Subcontractor under workers' compensation acts, disability benefit acts or other employee benefit acts.

ARTICLE 10 ARCHITECT

§ 10.1 The Architect will provide administration of the Contract as described in the Contract Documents and will be an Owner's representative during construction, until the date the Architect issues the final Certificate for Payment. The Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents, unless otherwise modified in writing in accordance with other provisions of the Contract.

§ 10.2 Duties, responsibilities, and limitations of authority of the Architect as set forth in the Contract Documents shall not be restricted, modified, or extended without written consent of the Owner, Contractor, and Architect. Consent shall not be unreasonably withheld.

§ 10.3 The Architect will visit the site at intervals appropriate to the stage of the construction to become generally familiar with the progress and quality of the portion of the Work completed, and to determine in general, if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Architect will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Architect will not have control over, charge of, or responsibility for the construction means, methods, techniques, sequences, or procedures, or for safety precautions and programs in connection with the Work, since these are solely the Contractor's rights and responsibilities under the Contract Documents.

§ 10.4 On the basis of the site visits, the Architect will keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and promptly report to the Owner (1) known deviations from the Contract Documents, (2) known deviations from the most recent construction schedule submitted by the Contractor, and (3) defects and deficiencies observed in the Work. The Architect will not be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. The Architect will not have control over or charge of and will not be responsible for acts or omissions of the Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing portions of the Work.

§ 10.5 Based on the Architect's evaluations of the Work and of the Contractor's Applications for Payment, the Architect will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

§ 10.6 The Architect has authority to reject Work that does not conform to the Contract Documents and to require inspection or testing of the Work.

§ 10.7 The Architect will review and approve or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data, and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents.

§ 10.8 The Architect will interpret and decide matters concerning performance under, and requirements of, the Contract Documents on written request of either the Owner or Contractor. The Architect will make initial decisions on all claims, disputes, and other matters in question between the Owner and Contractor but will not be liable for results of any interpretations or decisions rendered in good faith.

§ 10.9 The Architect's decisions on matters relating to aesthetic effect will be final if consistent with the intent expressed in the Contract Documents.

ARTICLE 11 SUBCONTRACTORS

§ 11.1 A Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site.

§ 11.2 Unless otherwise stated in the Contract Documents, the Contractor, as soon as practicable after award of the Contract, shall notify the Owner and Architect of the Subcontractors or suppliers proposed for each of the principal portions of the Work. The Contractor shall not contract with any Subcontractor or supplier to whom the Owner or Architect has made reasonable written objection within ten days after receipt of the Contractor's list of Subcontractors and suppliers. If the proposed but rejected Subcontractor was reasonably capable of performing the Work, the Contract Sum and Contract Time shall be increased or decreased by the difference, if any, occasioned by such change, and an appropriate Change Order shall be issued before commencement of the substitute Subcontractor's Work. The Contractor shall not be required to contract with anyone to whom the Contractor has made reasonable objection.

§ 11.3 Contracts between the Contractor and Subcontractors shall (1) require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by the terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work, which the Contractor, by the Contract Documents, assumes toward the Owner and Architect, and (2) allow the Subcontractor the benefit of all rights, remedies and redress against the Contractor that the Contractor, by these Contract Documents, has against the Owner.

ARTICLE 12 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

§ 12.1 The term "Separate Contractor(s)" shall mean other contractors retained by the Owner under separate agreements. The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and with Separate Contractors retained under Conditions of the Contract substantially similar to those of this Contract, including those provisions of the Conditions of the Contract related to insurance and waiver of subrogation.

§ 12.2 The Contractor shall afford the Owner and Separate Contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities, and shall connect and coordinate the Contractor's activities with theirs as required by the Contract Documents.

§ 12.3 The Owner shall be reimbursed by the Contractor for costs incurred by the Owner which are payable to a Separate Contractor because of delays, improperly timed activities, or defective construction of the Contractor. The Owner shall be responsible to the Contractor for costs incurred by the Contractor because of delays, improperly timed activities, damage to the Work, or defective construction of a Separate Contractor.

ARTICLE 13 CHANGES IN THE WORK

§ 13.1 By appropriate Modification, changes in the Work may be accomplished after execution of the Contract. The Owner, without invalidating the Contract, may order changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions, with the Contract Sum and Contract Time being adjusted accordingly. Such changes in the Work shall be authorized by written Change Order signed by the Owner, Contractor, and Architect, or by written Construction Change Directive signed by the Owner and Architect. Upon issuance of the Change Order or Construction Change Directive, the Contractor shall proceed promptly with such changes in the Work, unless otherwise provided in the Change Order or Construction Change Directive.

§ 13.2 Adjustments in the Contract Sum and Contract Time resulting from a change in the Work shall be determined by mutual agreement of the parties or, in the case of a Construction Change Directive signed only by the Owner and Architect, by the Contractor's cost of labor, material, equipment, and reasonable overhead and profit, unless the parties agree on another method for determining the cost or credit. Pending final determination of the total cost of a Construction Change Directive, the Contractor may request payment for Work completed pursuant to the Construction Change Directive. The Architect will make an interim determination of the amount of payment due for purposes of certifying the Contractor's monthly Application for Payment. When the Owner and Contractor agree on adjustments to the Contract Sum and Contract Time arising from a Construction Change Directive, the Architect will prepare a Change Order.

§ 13.3 The Architect will have authority to order minor changes in the Work not involving adjustment in the Contract Sum or extension of the Contract Time and not inconsistent with the intent of the Contract Documents. Such changes shall be effected by written order and shall be binding on the Owner and Contractor. The Contractor shall carry out such written orders promptly. If the Contractor believes that the proposed minor change in the Work will affect the Contract Sum or Contract Time, the Contractor shall notify the Architect and shall not proceed to implement the change in the Work.

§ 13.4 If concealed or unknown physical conditions are encountered at the site that differ materially from those indicated in the Contract Documents or from those conditions ordinarily found to exist, the Contract Sum and Contract Time shall be equitably adjusted as mutually agreed between the Owner and Contractor; provided that the Contractor provides notice to the Owner and Architect promptly and before conditions are disturbed.

ARTICLE 14 TIME

§ 14.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing this Agreement the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

§ 14.2 Unless otherwise provided, Contract Time is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion of the Work.

§ 14.3 The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

§ 14.4 The date of Substantial Completion is the date certified by the Architect in accordance with Section 15.6.3.

§ 14.5 If the Contractor is delayed at any time in the commencement or progress of the Work by (1) changes ordered in the Work; (2) by labor disputes, fire, unusual delay in deliveries, abnormal adverse weather conditions not reasonably

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anticipatable, unavoidable casualties, or any causes beyond the Contractor's control; or (3) by other causes that the Contractor asserts, and the Architect determines, justify delay, then the Contract Time shall be extended for such reasonable time as the Architect may determine, subject to the provisions of Article 21.

ARTICLE 15 PAYMENTS AND COMPLETION

§ 15.1 Schedule of Values

§ 15.1.1 Where the Contract is based on a Stipulated Sum or the Cost of the Work with a Guaranteed Maximum Price pursuant to Section 3.2 or 3.4, the Contractor shall submit a schedule of values to the Architect before the first Application for Payment, allocating the entire Stipulated Sum or Guaranteed Maximum Price to the various portions of the Work. The schedule of values shall be prepared in the form, and supported by the data to substantiate its accuracy required by the Architect. This schedule of values shall be used as a basis for reviewing the Contractor's Applications for Payment.

§ 15.1.2 The allocation of the Stipulated Sum or Guaranteed Maximum Price under this Section 15.1 shall not constitute a separate stipulated sum or guaranteed maximum price for each individual line item in the schedule of values.

§ 15.2 Control Estimate

§ 15.2.1 Where the Contract Sum is the Cost of the Work, plus the Contractor's Fee without a Guaranteed Maximum Price pursuant to Section 3.3, the Contractor shall prepare and submit to the Owner a Control Estimate within 14 days of executing this Agreement. The Control Estimate shall include the estimated Cost of the Work plus the Contractor's Fee.

§ 15.2.2 The Control Estimate shall include:

- .1 the documents enumerated in Article 6, including all Modifications thereto;
- .2 a list of the assumptions made by the Contractor in the preparation of the Control Estimate to supplement the information provided by the Owner and contained in the Contract Documents;
- .3 a statement of the estimated Cost of the Work organized by trade categories or systems and the Contractor's Fee;
- .4 a project schedule upon which the Control Estimate is based, indicating proposed Subcontractors, activity sequences and durations, milestone dates for receipt and approval of pertinent information, schedule of shop drawings and samples, procurement and delivery of materials or equipment the Owner's occupancy requirements, and the date of Substantial Completion; and
- .5 a list of any contingency amounts included in the Control Estimate for further development of design and construction.

§ 15.2.3 When the Control Estimate is acceptable to the Owner and Architect, the Owner shall acknowledge it in writing. The Owner's acceptance of the Control Estimate does not imply that the Control Estimate constitutes a Guaranteed Maximum Price.

§ 15.2.4 The Contractor shall develop and implement a detailed system of cost control that will provide the Owner and Architect with timely information as to the anticipated total Cost of the Work. The cost control system shall compare the Control Estimate with the actual cost for activities in progress and estimates for uncompleted tasks and proposed changes. This information shall be reported to the Owner, in writing, no later than the Contractor's first Application for Payment and shall be revised and submitted with each Application for Payment.

§ 15.2.5 The Owner shall authorize preparation of revisions to the Contract Documents that incorporate the agreed-upon assumptions contained in the Control Estimate. The Owner shall promptly furnish such revised Contract Documents to the Contractor. The Contractor shall notify the Owner and Architect of any inconsistencies between the Control Estimate and the revised Contract Documents.

§ 15.3 Applications for Payment

§ 15.3.1 At least ten days before the date established for each progress payment, the Contractor shall submit to the Architect an itemized Application for Payment prepared in accordance with the schedule of values, if required under Section 15.1, for completed portions of the Work. The application shall be notarized, if required; be supported by all data substantiating the Contractor's right to payment that the Owner or Architect require; shall reflect retainage if provided for in the Contract Documents; and include any revised cost control information required by Section 15.2.4. Applications for Payment shall not include requests for payment for portions of the Work for which the Contractor does not intend to pay a Subcontractor or supplier, unless such Work has been performed by others whom the Contractor intends to pay.

§ 15.3.2 With each Application for Payment where the Contract Sum is based upon the Cost of the Work, or the Cost of the Work with a Guaranteed Maximum Price, the Contractor shall submit payrolls, petty cash accounts, receipted invoices or invoices with check vouchers attached, and any other evidence required by the Owner to demonstrate that cash disbursements already made by the Contractor on account of the Cost of the Work equal or exceed progress payments already received by the Contractor plus payrolls for the period covered by the present Application for Payment, less that portion of the progress payments attributable to the Contractor's Fee.

§ 15.3.3 Payments shall be made on account of materials and equipment delivered and suitably stored at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may **similarly be made** for materials and equipment stored, and protected from damage, off the site at a location agreed upon in writing.

§ 15.3.4 The Contractor warrants that title to all Work covered by an Application for Payment will **pass** to the Owner no later than the time of payment. The Contractor further warrants that upon **submission** of an Application for Payment all Work for which Certificates for Payment have been previously issued and **payments received from the Owner** shall, to the best of the Contractor's knowledge, information and belief, be free and clear of **liens, claims, security interests** or other encumbrances adverse to the Owner's interests.

§ 15.4 Certificates for Payment

§ 15.4.1 The Architect will, within seven days after receipt of the Contractor's Application for Payment, either issue to the Owner a Certificate for Payment, with a copy to the Contractor, for such amount **as the Architect determines** is properly due, or notify the Contractor and Owner of the Architect's reasons for withholding certification in whole or in part as provided in Section 15.4.3.

§ 15.4.2 The issuance of a Certificate for Payment will constitute a **representation by the Architect** to the Owner, based on the Architect's evaluations of the Work and the data in the Application for Payment, that, to the best of the Architect's knowledge, information, and belief, the Work has **progressed** to the point indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is **entitled** to payment in the amount certified. The foregoing representations are subject to an evaluation of the Work for **conformance with the Contract Documents** upon Substantial Completion, to results of subsequent **tests and inspections**, to correction of minor deviations from the Contract Documents prior to completion and to **specific qualifications** expressed by the Architect. However, the issuance of a Certificate for Payment will not be a representation that the Architect has (1) made exhaustive or continuous on-site inspections to check the **quality or quantity of the Work**; (2) reviewed construction means, methods, techniques, sequences, or procedures; (3) reviewed copies of requisitions received from Subcontractors and suppliers and other data requested by the Owner to **substantiate the Contractor's right to payment**; or (4) made examination to ascertain how or for what purpose **the Contractor has used money** previously paid on account of the Contract Sum.

§ 15.4.3 The Architect may **withhold a Certificate** for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in the Architect's **opinion the representations** to the Owner required by Section 15.4.2 cannot be made. If the Architect is **unable to certify payment** in the amount of the Application, the Architect will notify the Contractor and Owner as provided in Section 15.4.1. If the Contractor and the Architect cannot agree on a revised amount, **the Architect** will promptly issue a Certificate for Payment for the amount for which the Architect is able to make such representations to the Owner. **The Architect** may also withhold a Certificate for Payment or, because of subsequently discovered evidence, may **nullify** the whole or a part of a Certificate for Payment previously issued, to such extent as may be **necessary in the Architect's opinion** to protect the Owner from loss for which the Contractor is responsible, including loss resulting from acts and omissions described in Section 9.2.2, because of

- .1 defective Work **not remedied**;
- .2 third-party claims **filed** or reasonable evidence indicating probable filing of such claims unless security acceptable to **the Owner** is provided by the Contractor;
- .3 **failure of the Contractor** to make payments properly to Subcontractors or suppliers for labor, materials or equipment;
- .4 reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;
- .5 damage to the Owner or a Separate Contractor;
- .6 reasonable evidence that the Work will not be completed within the Contract Time and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay; or
- .7 repeated failure to carry out the Work in accordance with the Contract Documents.

§ 15.4.4 When either party disputes the Architect's decision regarding a Certificate for Payment under Section 15.4.3, in whole or in part, that party may submit a Claim in accordance with Article 21.

§ 15.5 Progress Payments

§ 15.5.1 The Contractor shall pay each Subcontractor, no later than seven days after receipt of payment from the Owner, the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to sub-subcontractors in a similar manner.

§ 15.5.2 Neither the Owner nor Architect shall have an obligation to pay or see to the payment of money to a Subcontractor or supplier except as may otherwise be required by law.

§ 15.5.3 A Certificate for Payment, a progress payment, or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work not in accordance with the Contract Documents.

§ 15.5.4 Provided the Owner has fulfilled its payment obligations under the Contract Documents, the Contractor shall defend and indemnify the Owner from all loss, liability, damage or expense, including reasonable attorney's fees and litigation expenses, arising out of any lien claim or other claim for payment by any Subcontractor or supplier of any tier. Upon receipt of notice of a lien claim or other claim for payment, the Owner shall notify the Contractor. If approved by the applicable court, when required, the Contractor may substitute a surety bond for the property against which the lien or other claim for payment has been asserted.

§ 15.6 Substantial Completion

§ 15.6.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use.

§ 15.6.2 When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Architect a comprehensive list of items to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

§ 15.6.3 Upon receipt of the Contractor's list, the Architect will make an inspection to determine whether the Work or designated portion thereof is substantially complete. When the Architect determines that the Work or designated portion thereof is substantially complete, the Architect will issue a Certificate of Substantial Completion which shall establish the date of Substantial Completion; establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance; and fix the time within which the Contractor shall finish all items on the list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion.

§ 15.6.4 The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in the Certificate. Upon such acceptance and consent of surety, if any, the Owner shall make payment of retainage applying to the Work or designated portion thereof. Such payment shall be adjusted for Work that is incomplete or not in accordance with the requirements of the Contract Documents.

§ 15.7 Final Completion and Final Payment

§ 15.7.1 Upon receipt of the Contractor's notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Architect will promptly make such inspection and, when the Architect finds the Work acceptable under the Contract Documents and the Contract fully performed, the Architect will promptly issue a final Certificate for Payment stating that to the best of the Architect's knowledge, information and belief, and on the basis of the Architect's on-site visits and inspections, the Work has been completed in accordance with the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Architect's final Certificate for Payment will constitute a further representation that conditions stated in Section 15.7.2 as precedent to the Contractor's being entitled to final payment have been fulfilled.

§ 15.7.2 Final payment shall not become due until the Contractor has delivered to the Owner a complete release of all liens arising out of this Contract or receipts in full covering all labor, materials and equipment for which a lien could be filed, or a bond satisfactory to the Owner to indemnify the Owner against such lien. If such lien remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging such lien, including costs and reasonable attorneys' fees.

§ 15.7.3 The making of final payment shall constitute a waiver of claims by the Owner except those arising from

- .1 liens, claims, security interests or encumbrances arising out of the Contract and unsettled;
- .2 failure of the Work to comply with the requirements of the Contract Documents;
- .3 terms of special warranties required by the Contract Documents; or
- .4 audits performed by the Owner, if permitted by the Contract Documents, after final payment.

§ 15.7.4 Acceptance of final payment by the Contractor, a Subcontractor or supplier shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of the final Application for Payment.

ARTICLE 16 PROTECTION OF PERSONS AND PROPERTY

§ 16.1 Safety Precautions and Programs

The Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Contract. The Contractor shall take reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury, or loss to

- .1 employees on the Work and other persons who may be affected thereby;
- .2 the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody, or control of the Contractor, a Subcontractor, or a Sub-subcontractor; and
- .3 other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation, or replacement in the course of construction.

The Contractor shall comply with, and give notices required by, applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities bearing on safety of persons and property and their protection from damage, injury, or loss. The Contractor shall promptly remedy damage and loss to property caused in whole or in part by the Contractor, a Subcontractor, a sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 16.1.2 and 16.1.3. The Contractor may make a claim for the cost to remedy the damage or loss to the extent such damage or loss is attributable to acts or omissions of the Owner or Architect or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 9.15.

§ 16.2 Hazardous Materials and Substances

§ 16.2.1 The Contractor is responsible for compliance with the requirements of the Contract Documents regarding hazardous materials or substances. If the Contractor encounters a hazardous material or substance not addressed in the Contract Documents, and if reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including but not limited to asbestos or polychlorinated biphenyl (PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and notify the Owner and Architect of the condition. When the material or substance has been rendered harmless, Work in the affected area shall resume upon written agreement of the Owner and Contractor. By Change Order, the Contract Time shall be extended appropriately and the Contract Sum shall be increased in the amount of the Contractor's reasonable additional costs of shutdown, delay, and start-up.

§ 16.2.2 To the fullest extent permitted by law, the Owner shall indemnify and hold harmless the Contractor, Subcontractors, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses, and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work in the affected area, if in fact, the material or substance presents the risk of bodily injury or death as described in Section 16.2.1 and has not been rendered harmless, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), except to the extent that such damage, loss, or expense is due to the fault or negligence of the party seeking indemnity.

§ 16.2.3 If, without negligence on the part of the Contractor, the Contractor is held liable by a government agency for the cost of remediation of a hazardous material or substance solely by reason of performing Work as required by the Contract Documents, the Owner shall indemnify the Contractor for all cost and expense thereby incurred.

ARTICLE 17 INSURANCE AND BONDS

§ 17.1 Contractor's Insurance

§ 17.1.1 The Contractor shall purchase and maintain insurance of the types and limits of liability, containing the endorsements, and subject to the terms and conditions, as described in this Section 17.1 or elsewhere in the Contract Documents. The Contractor shall purchase and maintain the insurance required by this Agreement from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located. The Contractor shall maintain the required insurance until the expiration of the period for correction of Work as set forth in Section 18.4, unless a different duration is stated below:

§ 17.1.2 Commercial General Liability insurance for the Project written on an occurrence form with policy limits of not less than (\$) each occurrence, (\$) general aggregate, and (\$) aggregate for products-completed operations hazard, providing coverage for claims including

- .1 damages because of bodily injury, sickness or disease, including occupational sickness or disease, and death of any person;
- .2 personal and advertising injury;
- .3 damages because of physical damage to or destruction of tangible property, including the loss of use of such property;
- .4 bodily injury or property damage arising out of completed operations; and
- .5 the Contractor's indemnity obligations under Section 9.15.

§ 17.1.3 Automobile Liability covering vehicles owned by the Contractor and non-owned vehicles used by the Contractor, with policy limits of not less than (\$) per accident, for bodily injury, death of any person, and property damage arising out of the ownership, maintenance, and use of those motor vehicles along with any other statutorily required automobile coverage.

§ 17.1.4 The Contractor may achieve the required limits and coverage for Commercial General Liability and Automobile Liability through a combination of primary and excess or umbrella liability insurance, provided such primary and excess or umbrella insurance policies result in the same or greater coverage as those required under Section 17.1.2 and 17.1.3, and in no event shall any excess or umbrella liability insurance provide narrower coverage than the primary policy. The excess policy shall not require the exhaustion of the underlying limits only through the actual payment by the underlying insurers.

§ 17.1.5 Workers' Compensation at statutory limits.

§ 17.1.6 Employers' Liability with policy limits not less than (\$) each accident (\$) each employee, and (\$) policy limit.

§ 17.1.7 If the Contractor is required to furnish professional services as part of the Work, the Contractor shall procure Professional Liability insurance covering performance of the professional services, with policy limits of not less than (\$) per claim and (\$) in the aggregate.

§ 17.1.8 If the Work involves the transport, dissemination, use, or release of pollutants, the Contractor shall procure Pollution Liability insurance, with policy limits of not less than (\$) per claim and (\$) in the aggregate.

§ 17.1.9 Coverage under Sections 17.1.7 and 17.1.8 may be procured through a Combined Professional Liability and Pollution Liability insurance policy, with combined policy limits of not less than (\$) per claim and (\$) in the aggregate.

§ 17.1.10 The Contractor shall provide certificates of insurance acceptable to the Owner evidencing compliance with the requirements in this Section 17.1 at the following times: (1) prior to commencement of the Work; (2) upon renewal or replacement of each required policy of insurance; and (3) upon the Owner's written request. An additional certificate evidencing continuation of liability coverage, including coverage for completed operations, shall be submitted with the final Application for Payment and thereafter upon renewal or replacement of such coverage until the expiration of the period required by Section 17.1.1. The certificates will show the Owner as an additional insured on the Contractor's Commercial General Liability and excess or umbrella liability policy.

§ 17.1.11 The Contractor shall disclose to the Owner any deductible or self-insured retentions applicable to any insurance required to be provided by the Contractor.

§ 17.1.12 To the fullest extent permitted by law, the Contractor shall cause the commercial liability coverage required by this Section 17.1 to include (1) the Owner, the Architect, and the Architect's Consultants as additional insureds for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's operations; and (2) the Owner as an additional insured for claims caused in whole or in part by the Contractor's negligent acts or omissions for which loss occurs during completed operations. The additional insured coverage shall be primary and non-contributory to any of the Owner's general liability insurance policies and shall apply to both ongoing and completed operations. To the extent commercially available, the additional insured coverage shall be no less than that provided by Insurance Services Office, Inc. (ISO) forms CG 20 10 07 04, CG 20 37 07 04, and, with respect to the Architect and the Architect's Consultants, CG 20 32 07 04.

§ 17.1.13 Within three (3) business days of the date the Contractor becomes aware of an impending or actual cancellation or expiration of any insurance required by this Section 17.1, the Contractor shall provide notice to the Owner of such impending or actual cancellation or expiration. Upon receipt of notice from the Contractor, the Owner shall, unless the lapse in coverage arises from an act or omission of the Owner, have the right to stop the Work until the lapse in coverage has been cured by the procurement of replacement coverage by the Contractor. The furnishing of notice by the Contractor shall not relieve the Contractor of any contractual obligation to provide any required coverage.

§ 17.1.14 Other Insurance Provided by the Contractor

(List below any other insurance coverage to be provided by the Contractor and any applicable limits.)

Coverage

Limits

§ 17.2 Owner's Insurance

§ 17.2.1 Owner's Liability Insurance

The Owner shall be responsible for purchasing and maintaining the Owner's usual liability insurance.

§ 17.2.2 Property Insurance

§ 17.2.2.1 The Owner shall purchase and maintain, from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located, property insurance written on a builder's risk "all-risks" completed value or equivalent policy form and sufficient to cover the total value of the entire Project on a replacement cost basis. The Owner's property insurance coverage shall be no less than the amount of the initial Contract Sum, plus the value of subsequent Modifications and labor performed or materials or equipment supplied by others. The property insurance shall be maintained until Substantial Completion and thereafter as provided in Section 17.2.2.2, unless otherwise provided in the Contract Documents or otherwise agreed in writing by the parties to this Agreement. This insurance shall include the interests of the Owner, Contractor, Subcontractors, and Sub-subcontractors in the Project as insureds. This insurance shall include the interests of mortgagees as loss payees.

§ 17.2.2.2 Unless the parties agree otherwise, upon Substantial Completion, the Owner shall continue the insurance required by Section 17.2.2.1 or, if necessary, replace the insurance policy required under Section 17.2.2.1 with property insurance written for the total value of the Project that shall remain in effect until expiration of the period for correction of the Work set forth in Section 18.4.

§ 17.2.2.3 If the insurance required by this Section 17.2.2 is subject to deductibles or self-insured retentions, the Owner shall be responsible for all loss not covered because of such deductibles or retentions.

§ 17.2.2.4 If the Work involves remodeling an existing structure or constructing an addition to an existing structure, the Owner shall purchase and maintain, until the expiration of the period for correction of Work as set forth in Section 18.4, "all-risks" property insurance, on a replacement cost basis, protecting the existing structure against direct physical loss or damage, notwithstanding the undertaking of the Work. The Owner shall be responsible for all co-insurance penalties.

§ 17.2.2.5 Prior to commencement of the Work, the Owner shall secure the insurance, and provide evidence of the coverage, required under this Section 17.2.2 and, upon the Contractor's request, provide a copy of the property insurance policy or policies required by this Section 17.2.2. The copy of the policy or policies provided shall contain all applicable conditions, definitions, exclusions, and endorsements.

§ 17.2.2.6 Within three (3) business days of the date the Owner becomes aware of an impending or actual cancellation or expiration of any insurance required by this Section 17.2.2, the Owner shall provide notice to the Contractor of such impending or actual cancellation or expiration. Unless the lapse in coverage arises from an act or omission of the Contractor: (1) the Contractor, upon receipt of notice from the Owner, shall have the right to **stop the Work** until the lapse in coverage has been cured by the procurement of replacement coverage by either the Owner or the Contractor; (2) the Contract Time and Contract Sum shall be equitably adjusted; and (3) the Owner waives all rights against the Contractor, Subcontractors, and Sub-subcontractors to the extent any loss to the Owner would have been covered by the insurance had it not expired or been cancelled. If the Contractor purchases replacement coverage, the cost of the insurance shall be charged to the Owner by an appropriate Change Order. The furnishing of notice by the Owner shall not relieve the Owner of any contractual obligation to provide required insurance.

§ 17.2.2.7 Waiver of Subrogation

§ 17.2.2.7.1 The Owner and Contractor waive all rights against (1) each other and any of their subcontractors, sub-subcontractors, agents, and employees, each of the other; (2) the Architect and Architect's consultants; and (3) Separate Contractors, if any, and any of their subcontractors, sub-subcontractors, agents, and employees, for damages caused by fire, or other causes of loss, to the extent those losses are covered by property insurance required by this Agreement or other property insurance applicable to the Project, except such rights as they have to proceeds of such insurance. The Owner or Contractor, as appropriate, shall require similar written waivers in favor of the individuals and entities identified above from the Architect, Architect's consultants, Separate Contractors, subcontractors, and sub-subcontractors. The policies of insurance purchased and maintained by each person or entity agreeing to waive claims pursuant to this Section 17.2.2.7 shall not prohibit this waiver of subrogation. This waiver of subrogation shall be effective as to a person or entity (1) even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, (2) even though that person or entity did not pay the insurance premium directly or indirectly, or (3) whether or not the person or entity had an insurable interest in the damaged property.

§ 17.2.2.7.2 If during the Project construction period the Owner insures properties, real or personal or both, at or adjacent to the site by property insurance under policies separate from those insuring the Project, or if after final payment property insurance is to be provided on the completed Project through a policy or policies other than those insuring the Project during the construction period, to the extent permissible by such policies, the Owner waives all rights in accordance with the terms of Section 17.2.2.7.1 for damages caused by fire or other causes of loss covered by this separate property insurance.

§ 17.2.2.8 A loss insured under the Owner's property insurance shall be adjusted by the Owner as fiduciary and made payable to the Owner as fiduciary for the insureds, as their interests may appear, subject to requirements of any applicable mortgagee clause. The Owner shall pay the Architect and Contractor their just shares of insurance proceeds received by the Owner, and by appropriate agreements, written where legally required for validity, the Architect and Contractor shall make payments to their consultants and Subcontractors in similar manner.

§ 17.2.3 Other Insurance Provided by the Owner

(List below any other insurance coverage to be provided by the Owner and any applicable limits.)

Coverage

Limits

§ 17.3 Performance Bond and Payment Bond

§ 17.3.1 The Owner shall have the right to require the Contractor to furnish bonds covering faithful performance of the Contract and payment of obligations arising thereunder as stipulated in the Contract Documents on the date of execution of the Contract.

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§ 17.3.2 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

ARTICLE 18 CORRECTION OF WORK

§ 18.1 The Contractor shall promptly correct Work rejected by the Architect or failing to conform to the requirements of the Contract Documents, whether discovered before or after Substantial Completion and whether or not fabricated, installed, or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Architect's services and expenses made necessary thereby, shall be at the Contractor's expense, unless compensable under Section A.1.7.3 in Exhibit A, Determination of the Cost of the Work.

§ 18.2 In addition to the Contractor's obligations under Section 9.4, if, within one year after the date of Substantial Completion of the Work or designated portion thereof or after the date for commencement of warranties established under Section 15.6.3, or by terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. During the one-year period for correction of Work, if the Owner fails to notify the Contractor and give the Contractor an opportunity to make the correction, the Owner waives the rights to require correction by the Contractor and to make a claim for breach of warranty.

§ 18.3 If the Contractor fails to correct nonconforming Work within a reasonable time, the Owner may correct it in accordance with Section 8.3.

§ 18.4 The one-year period for correction of Work shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual completion of that portion of the Work.

§ 18.5 The one-year period for correction of Work shall not be extended by corrective Work performed by the Contractor pursuant to this Article 18.

ARTICLE 19 MISCELLANEOUS PROVISIONS

§ 19.1 Assignment of Contract

Neither party to the Contract shall assign the Contract without written consent of the other, except that the Owner may, without consent of the Contractor, assign the Contract to a lender providing construction financing for the Project if the lender assumes the Owner's rights and obligations under the Contract Documents. The Contractor shall execute all consents reasonably required to facilitate such assignment.

§ 19.2 Governing Law

The Contract shall be governed by the law of the place where the Project is located, excluding that jurisdiction's choice of law rules. If the parties have selected arbitration as the method of binding dispute resolution, the Federal Arbitration Act shall govern Section 21.6.

§ 19.3 Tests and Inspections

Tests, inspections, and approvals of portions of the Work required by the Contract Documents or by applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities shall be made at an appropriate time. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections, and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections, and approvals. The Contractor shall give the Architect timely notice of when and where tests and inspections are to be made so that the Architect may be present for such procedures. The Owner shall bear costs of tests, inspections, or approvals that do not become requirements until after bids are received or negotiations concluded. The Owner shall directly arrange and pay for tests, inspections, or approvals where building codes or applicable laws or regulations so require.

§ 19.4 The Owner's representative:

(Name, address, email address and other information)

§ 19.5 The Contractor's representative:
(Name, address, email address and other information)

§ 19.6 Neither the Owner's nor the Contractor's representative shall be changed without ten days' prior notice to the other party.

ARTICLE 20 TERMINATION OF THE CONTRACT

§ 20.1 Termination by the Contractor

If the Architect fails to certify payment as provided in Section 15.4.1 for a period of 30 days through no fault of the Contractor, or if the Owner fails to make payment as provided in Section 4.1.3 for a period of 30 days, the Contractor may, upon seven additional days' notice to the Owner and the Architect, terminate the Contract and recover from the Owner payment for Work executed, including reasonable overhead and profit, costs incurred by reason of such termination, and damages.

§ 20.2 Termination by the Owner for Cause

§ 20.2.1 The Owner may terminate the Contract if the Contractor

- .1 repeatedly refuses or fails to supply enough properly skilled workers or proper materials;
- .2 fails to make payment to Subcontractors for materials or labor in accordance with the respective agreements between the Contractor and the Subcontractors;
- .3 repeatedly disregards applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of a public authority; or
- .4 otherwise is guilty of substantial breach of a provision of the Contract Documents.

§ 20.2.2 When any of the reasons described in Section 20.2.1 exists, the Owner, upon certification by the Architect that sufficient cause exists to justify such action, may, without prejudice to any other remedy the Owner may have and after giving the Contractor seven days' notice, terminate the Contract and take possession of the site and of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor and may finish the Work by whatever reasonable method the Owner may deem expedient. Upon request of the Contractor, the Owner shall furnish to the Contractor a detailed accounting of the costs incurred by the Owner in finishing the Work.

§ 20.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 20.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished.

§ 20.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Architect's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived, such excess shall be paid to the Contractor. If such costs and damages exceed the unpaid balance, the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor or Owner, as the case may be, shall be certified by the Architect, upon application, and this obligation for payment shall survive termination of the Contract.

§ 20.3 Termination by the Owner for Convenience

The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause. The Owner shall pay the Contractor for Work executed; and costs incurred by reason of such termination, including costs attributable to termination of Subcontracts; and a termination fee, if any, as follows:

(Insert the amount of or method for determining the fee payable to the Contractor by the Owner following a termination for the Owner's convenience, if any.)

ARTICLE 21 CLAIMS AND DISPUTES

§ 21.1 Claims, disputes, and other matters in question arising out of or relating to this Contract, including those alleging an error or omission by the Architect but excluding those arising under Section 16.2, shall be referred initially to the Architect for decision. Such matters, except those waived as provided for in Section 21.11 and Sections 15.7.3 and 15.7.4, shall, after initial decision by the Architect or 30 days after submission of the matter to the Architect, be subject to mediation as a condition precedent to binding dispute resolution.

§ 21.2 Notice of Claims

§ 21.2.1 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered prior to expiration of the period for correction of the Work set forth in Section 18.2, shall be initiated by notice to the Architect within 21 days after occurrence of the event giving rise to such Claim or within 21 days after the claimant first recognizes the condition giving rise to the Claim, whichever is later.

§ 21.2.2 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 18.2, shall be initiated by notice to the other party.

§ 21.3 Time Limits on Claims

The Owner and Contractor shall commence all claims and causes of action against the other and arising out of or related to the Contract in accordance with the requirements of the final dispute resolution method selected in this Agreement, whether in contract, tort, breach of warranty, or otherwise, within the period specified by applicable law, but in any case not more than 10 years after the date of Substantial Completion of the Work. The Owner and Contractor waive all claims and causes of action not commenced in accordance with this Section 21.3.

§ 21.4 If a claim, dispute or other matter in question relates to or is the subject of a mechanic's lien, the party asserting such matter may proceed in accordance with applicable law to comply with the lien notice or filing deadlines.

§ 21.5 The parties shall endeavor to resolve their disputes by mediation which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with their Construction Industry Mediation Procedures in effect on the date of this Agreement. A request for mediation shall be made in writing, delivered to the other party to this Agreement, and filed with the person or entity administering the mediation. The request may be made concurrently with the binding dispute resolution but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If an arbitration is stayed pursuant to this Section, the parties may nonetheless proceed to the selection of the arbitrator(s) and agree upon a schedule for later proceedings.

§ 21.6 If the parties have selected arbitration as the method for binding dispute resolution in this Agreement, any claim, subject to, but not resolved by, mediation shall be subject to arbitration which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association, in accordance with the Construction Industry Arbitration Rules in effect on the date of this Agreement. Demand for arbitration shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the arbitration. The award rendered by the arbitrator or arbitrators shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.

§ 21.7 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, either party, at its sole discretion, may consolidate an arbitration conducted under this Agreement with any other arbitration to which it is a party provided that (1) the arbitration agreement governing the other arbitration permits consolidation; (2) the

arbitrations to be consolidated substantially involve common questions of law or fact; and (3) the arbitrations employ materially similar procedural rules and methods for selecting arbitrator(s).

§ 21.8 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, any party to an arbitration may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is required if complete relief is to be accorded in arbitration provided that the party sought to be joined consents in writing to such joinder. Consent to arbitration involving an additional person or entity shall not constitute consent to arbitration of a Claim not described in the written Consent.

§ 21.9 The foregoing agreement to arbitrate and other agreements to arbitrate with an additional person or entity duly consented to by parties to this Agreement shall be specifically enforceable under applicable law in any court having jurisdiction thereof.

§ 21.10 Continuing Contract Performance

Pending final resolution of a Claim, except as otherwise agreed in writing, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents.

§ 21.11 Waiver of Claims for Consequential Damages

The Contractor and Owner waive claims against each other for consequential damages arising out of or relating to this Contract. This mutual waiver includes

- .1 damages incurred by the Owner for rental expenses, for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and
- .2 damages incurred by the Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, and for loss of profit except anticipated profit arising directly from the Work.

This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination in accordance with Article 20. Nothing contained in this Section 21.11 shall be deemed to preclude an award of liquidated damages, when applicable, in accordance with the requirements of the Contract Documents.

This Agreement entered into as of the day and year first written above.

OWNER (Signature)

CONTRACTOR (Signature)

(Printed name and title)

(Printed name and title)

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SECTION 007000
GENERAL CONDITIONS

- 1.01 All work shall be governed by the American Institute of Architects standard Document No. A201, General Conditions of the Contract for Construction, 2017 Edition. This form is included herein for information.
- 1.02 The following modifies, changes, deletes from or adds to the “General Conditions of the Contract for Construction”, AIA Document A 201, 2017 Edition. Where any Article of the General Conditions is modified or deleted, the unaltered provisions of that Article, Paragraph, Subparagraph or Clause shall remain in effect.
- 1.03 Add the following Sub Paragraph 1.2.4:
- 1.2.4 In the case of an inconsistency between Drawings and Specifications (or other written Document not clarified by Addenda), the better quality or greater quantity of Work shall be provided in accordance with the Architect’s interpretation.
- 1.04 Add the following Subparagraph 1.2.5:
- 1.2.5 No responsibility, either direct or implied, is assumed by the Architect for omissions or duplications by the Contractor (or by his Subcontractor) due to alleged or real error in arrangement of matter in these Contract Documents.
- 1.05 Add the following Subparagraph 1.4.1
- 1.4.1 When the terms “or approved equal”, “approved”, “acceptable”, “proper” or other general qualifying terms are used in the Contract, it shall be understood that the reference is made to the ruling and judgment of the Architect whose decision shall be final.
- 1.06 Add the following Subparagraph 3.14.3:
- 3.14.3 The Contractor shall leave all chases, holes, or openings straight, true and of proper size and shape necessary for installation of work, located with approval of the Architect. Structural members shall not be cut unless shown on the Drawings or approved by the Architect. After installation of work, carefully fit around, close, repair, patch and point such openings. All this work to be done with proper tools by careful workmen of the trade to which the work belongs.

- 1.07 Add the following Subparagraph 5.3.2:
- 5.3.2 Any subcontractor designated to apply and product supplied by a material supplier not directly responsible to the Subcontractor shall be responsible for bringing to the attention of the Architect through the Contractor, any defects, faults, items not meeting Specifications and/or any characteristics of such product that will prevent the Subcontractor from obtaining a first class job of workmanship. Failure to do so does not relieve the Subcontractor of his job, just the same as when the Subcontractor has direct control of the purchase of the product in question. The various Contractors and Subcontractors shall coordinate their work with adjacent work and cooperate with other trades so as to facilitate general progress of work. Each trade shall afford other trades every reasonable opportunity for installation of their work and for storage of their materials.
- 1.08 Add the following Subparagraph 7.1.4:
- Changes in the Work must be reviewed and approved by the Leon County Representative prior to implementing said changes.
- 1.09 Add the following Subparagraph 8.2.4:
- 8.2.4 The best bid will be determined by consideration of time as well as bid amount. The Contract between the Owner and Contractor shall call out the mutually agreed on number of calendar days for construction.
- 1.10 Add the following Subparagraph 9.5.3:
- 9.5.3 Except for adjustment in retainage upon Substantial Completion and for the Final Payment, no further payments will be made on Applications for Payment submitted after the 20th day prior to the Date of Substantial Completion stipulated in the Contract plus any duly authorized extensions.
- 1.11 Add the following Subparagraph 9.5.4:
- 9.5.4 There will be no per diem Liquidated Damages. However, monthly payments will be discontinued at the time stipulated in Subparagraph 9.5.3. Also, if and to the extent that the Contract time plus any duly authorized extensions is exceeded, compensation for any of the Architects Basic Services required for such extended period of Administration of the Construction Contract shall be paid for by the General Contractor, and computed as stipulated in Paragraph 11.3.2 AIA Document B151 Standard Form of Agreement Between Owner

and Architect. Payment will be deducted from the money due or to become due the Contractor.

1.12 Add the following sentence to Subparagraph 9.8.5:

The payment shall be sufficient to increase the total payments to 95 percent of the Contract Sum, less such amounts as the Architect shall determine for all incomplete Work and unsettled claims.

1.13 Add the following Clause 11.1.5:

11.1.5 Liability insurance shall include all major divisions of coverage and be on a comprehensive basis including:

1. Premises Operation (including X-C/u applicable)
2. Independent Contractors Protective
3. Products and Completed Operations
4. Personal Injury Liability with Employment Exclusion deleted.
5. Owned, non-owned and hired motor vehicles.
6. Broad Form Property Damage including Completed Operations.
7. Umbrella Excess Liability.

1.14 Add the following Clause 11.1.3.1 to 11.1.3:

11.1.3.1 The Contractor shall furnish one copy each of Certificates of Insurance herein required for each copy of the agreement which shall specifically set forth evidence of all coverage required by Subparagraphs 11.1.1, 11.1.2 and 11.1.3. The Contractor shall furnish to the Owner copies of any endorsements that are subsequently issued amending coverage or limits.

1.15 Delete Subparagraph 11.2.1 and add the following:

11.2.1 The Contractor shall provide for Owner's Liability Insurance in the following amounts:

- | | |
|------------------------|------------------|
| a. Bodily Injury | |
| \$ <u>1,000,000.00</u> | Each Occurrence |
| \$ <u>3,000,000.00</u> | Annual Aggregate |
| b. Property Damage | |
| \$ <u>1,000,000.00</u> | Each Occurrence |
| \$ <u>3,000,000.00</u> | Annual Aggregate |

- c. Personal Injury, with Employment Exclusion deleted:
\$ 1,000,000.00 Each Occurrence

1.16 Delete Subparagraph 11.4 in its entirety and substitute the following:

11.4 The Contractor shall purchase and maintain property insurance upon the entire Work at the site to the full insurance value thereof. Such insurance shall be in a company or companies against which the Owner has no reasonable objection. This insurance shall include the interests of the Owner, the Contractor, Subcontractors, and Sub-subcontractors in the Work and shall insure against the perils of fire and extended coverage and shall include “All Risk” insurance for physical loss or damage including, without duplication of coverage, theft, vandalism, and malicious mischief. If not covered under all risk insurance or otherwise provided in the Contract Documents, the insurance on portions of the Work stored off the Site or in transit when such portions of the Work are to be included in an Application for Payment under Subparagraph 9.3.2.

1.17 Add the following Clause 11.4.1 to 11.4:

11.3 The form of policy for this coverage shall be “Reporting”.

1.18 Add the following Clause 11.4.2 to 11.4:

11.4.2 If by terms of this insurance any mandatory deductibles are required, or if the Contractor should elect, with the concurrence of the Owner, to increase the mandatory deductible amounts, the Contractor shall be responsible for payment of the amount of the deductible in event of a paid claim. If separate contractors are added as insured’s to be covered by this policy, the separate contractors shall be responsible for payment of appropriate part of any deductibles in the event claims are paid on their part of the Project.

1.19 Add the following Clause 11.4.3 to 11.4:

11.4.3 The Contractor shall file two certified copies of all policies with the Owner before exposure to loss can occur. If the Owner is damaged by the failure of the Contractor to maintain such insurance and to so notify the Owner, then the Contractor shall bear all reasonable cost properly attributable thereto.

END OF SECTION



AIA® Document A201™ – 2017

General Conditions of the Contract for Construction

for the following **PROJECT**:
(Name and location or address)

THE OWNER:
(Name, legal status and address)

THE ARCHITECT:
(Name, legal status and address)

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

For guidance in modifying this document to include supplementary conditions, see AIA Document A503™, Guide for Supplementary Conditions.

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ARTICLE 1 GENERAL PROVISIONS

§ 1.1 Basic Definitions

§ 1.1.1 The Contract Documents

The Contract Documents are enumerated in the Agreement between the Owner and Contractor (hereinafter the Agreement) and consist of the Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of the Contract, other documents listed in the Agreement, and Modifications issued after execution of the Contract. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive, or (4) a written order for a minor change in the Work issued by the Architect. Unless specifically enumerated in the Agreement, the Contract Documents do not include the advertisement or invitation to bid, Instructions to Bidders, sample forms, other information furnished by the Owner in anticipation of receiving bids or proposals, the Contractor's bid or proposal, or portions of Addenda relating to bidding or proposal requirements.

§ 1.1.2 The Contract

The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Contractor and the Architect or the Architect's consultants, (2) between the Owner and a Subcontractor or a Sub-subcontractor, (3) between the Owner and the Architect or the Architect's consultants, or (4) between any persons or entities other than the Owner and the Contractor. The Architect shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of the Architect's duties.

§ 1.1.3 The Work

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment, and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or a part of the Project.

§ 1.1.4 The Project

The Project is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the Owner and by Separate Contractors.

§ 1.1.5 The Drawings

The Drawings are the graphic and pictorial portions of the Contract Documents showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules, and diagrams.

§ 1.1.6 The Specifications

The Specifications are that portion of the Contract Documents consisting of the written requirements for materials, equipment, systems, standards and workmanship for the Work, and performance of related services.

§ 1.1.7 Instruments of Service

Instruments of Service are representations, in any medium of expression now known or later developed, of the tangible and intangible creative work performed by the Architect and the Architect's consultants under their respective professional services agreements. Instruments of Service may include, without limitation, studies, surveys, models, sketches, drawings, specifications, and other similar materials.

§ 1.1.8 Initial Decision Maker

The Initial Decision Maker is the person identified in the Agreement to render initial decisions on Claims in accordance with Section 15.2. The Initial Decision Maker shall not show partiality to the Owner or Contractor and shall not be liable for results of interpretations or decisions rendered in good faith.

§ 1.2 Correlation and Intent of the Contract Documents

§ 1.2.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required only to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.

§ 1.2.1.1 The invalidity of any provision of the Contract Documents shall not invalidate the Contract or its remaining

provisions. If it is determined that any provision of the Contract Documents violates any law, or is otherwise invalid or unenforceable, then that provision shall be revised to the extent necessary to make that provision legal and enforceable. In such case the Contract Documents shall be construed, to the fullest extent permitted by law, to give effect to the parties' intentions and purposes in executing the Contract.

§ 1.2.2 Organization of the Specifications into divisions, sections and articles, and arrangement of Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any trade.

§ 1.2.3 Unless otherwise stated in the Contract Documents, words that have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings.

§ 1.3 Capitalization

Terms capitalized in these General Conditions include those that are (1) specifically defined, (2) the titles of numbered articles, or (3) the titles of other documents published by the American Institute of Architects.

§ 1.4 Interpretation

In the interest of brevity the Contract Documents frequently omit modifying words such as "all" and "any" and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

§ 1.5 Ownership and Use of Drawings, Specifications, and Other Instruments of Service

§ 1.5.1 The Architect and the Architect's consultants shall be deemed the authors and owners of their respective Instruments of Service, including the Drawings and Specifications, and retain all common law, statutory, and other reserved rights in their Instruments of Service, including copyrights. The Contractor, Subcontractors, Sub-subcontractors, and suppliers shall not own or claim a copyright in the Instruments of Service. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with the Project is not to be construed as publication in derogation of the Architect's or Architect's consultants' reserved rights.

§ 1.5.2 The Contractor, Subcontractors, Sub-subcontractors, and suppliers are authorized to use and reproduce the Instruments of Service provided to them, subject to any protocols established pursuant to Sections 1.7 and 1.8, solely and exclusively for execution of the Work. All copies made under this authorization shall bear the copyright notice, if any, shown on the Instruments of Service. The Contractor, Subcontractors, Sub-subcontractors, and suppliers may not use the Instruments of Service on other projects or for additions to the Project outside the scope of the Work without the specific written consent of the Owner, Architect, and the Architect's consultants.

§ 1.6 Notice

§ 1.6.1 Except as otherwise provided in Section 1.6.2, where the Contract Documents require one party to notify or give notice to the other party, such notice shall be provided in writing to the designated representative of the party to whom the notice is addressed and shall be deemed to have been duly served if delivered in person, by mail, by courier, or by electronic transmission if a method for electronic transmission is set forth in the Agreement.

§ 1.6.2 Notice of Claims as provided in Section 15.1.3 shall be provided in writing and shall be deemed to have been duly served only if delivered to the designated representative of the party to whom the notice is addressed by certified or registered mail, or by courier providing proof of delivery.

§ 1.7 Digital Data Use and Transmission

The parties shall agree upon protocols governing the transmission and use of Instruments of Service or any other information or documentation in digital form. The parties will use AIA Document E203™-2013, Building Information Modeling and Digital Data Exhibit, to establish the protocols for the development, use, transmission, and exchange of digital data.

§ 1.8 Building Information Models Use and Reliance

Any use of, or reliance on, all or a portion of a building information model without agreement to protocols governing the use of, and reliance on, the information contained in the model and without having those protocols set forth in AIA Document E203™-2013, Building Information Modeling and Digital Data Exhibit, and the requisite AIA Document G202™-2013, Project Building Information Modeling Protocol Form, shall be at the using or relying party's sole risk and without liability to the other party and its contractors or consultants, the authors of, or contributors to, the building

information model, and each of their agents and employees.

ARTICLE 2 OWNER

§ 2.1 General

§ 2.1.1 The Owner is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Owner shall designate in writing a representative who shall have express authority to bind the Owner with respect to all matters requiring the Owner's approval or authorization. Except as otherwise provided in Section 4.2.1, the Architect does not have such authority. The term "Owner" means the Owner or the Owner's authorized representative.

§ 2.1.2 The Owner shall furnish to the Contractor, within fifteen days after receipt of a written request, information necessary and relevant for the Contractor to evaluate, give notice of, or enforce mechanic's lien rights. Such information shall include a correct statement of the record legal title to the property on which the Project is located, usually referred to as the site, and the Owner's interest therein.

§ 2.2 Evidence of the Owner's Financial Arrangements

§ 2.2.1 Prior to commencement of the Work and upon written request by the Contractor, the Owner shall furnish to the Contractor reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract. The Contractor shall have no obligation to commence the Work until the Owner provides such evidence. If commencement of the Work is delayed under this Section 2.2.1, the Contract Time shall be extended appropriately.

§ 2.2.2 Following commencement of the Work and upon written request by the Contractor, the Owner shall furnish to the Contractor reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract only if (1) the Owner fails to make payments to the Contractor as the Contract Documents require; (2) the Contractor identifies in writing a reasonable concern regarding the Owner's ability to make payment when due; or (3) a change in the Work materially changes the Contract Sum. If the Owner fails to provide such evidence, as required, within fourteen days of the Contractor's request, the Contractor may immediately stop the Work and, in that event, shall notify the Owner that the Work has stopped. However, if the request is made because a change in the Work materially changes the Contract Sum under (3) above, the Contractor may immediately stop only that portion of the Work affected by the change until reasonable evidence is provided. If the Work is stopped under this Section 2.2.2, the Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shutdown, delay and start-up, plus interest as provided in the Contract Documents.

§ 2.2.3 After the Owner furnishes evidence of financial arrangements under this Section 2.2, the Owner shall not materially vary such financial arrangements without prior notice to the Contractor.

§ 2.2.4 Where the Owner has designated information furnished under this Section 2.2 as "confidential," the Contractor shall keep the information confidential and shall not disclose it to any other person. However, the Contractor may disclose "confidential" information, after seven (7) days' notice to the Owner, where disclosure is required by law, including a subpoena or other form of compulsory legal process issued by a court or governmental entity, or by court or arbitrator(s) order. The Contractor may also disclose "confidential" information to its employees, consultants, sureties, Subcontractors and their employees, Sub-subcontractors, and others who need to know the content of such information solely and exclusively for the Project and who agree to maintain the confidentiality of such information.

§ 2.3 Information and Services Required of the Owner

§ 2.3.1 Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, including those required under Section 3.7.1, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.

§ 2.3.2 The Owner shall retain an architect lawfully licensed to practice architecture, or an entity lawfully practicing architecture, in the jurisdiction where the Project is located. That person or entity is identified as the Architect in the Agreement and is referred to throughout the Contract Documents as if singular in number.

§ 2.3.3 If the employment of the Architect terminates, the Owner shall employ a successor to whom the Contractor has no reasonable objection and whose status under the Contract Documents shall be that of the Architect.

§ 2.3.4 The Owner shall furnish surveys describing physical characteristics, legal limitations and utility locations for the

site of the Project, and a legal description of the site. The Contractor shall be entitled to rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.

§ 2.3.5 The Owner shall furnish information or services required of the Owner by the Contract Documents with reasonable promptness. The Owner shall also furnish any other information or services under the Owner's control and relevant to the Contractor's performance of the Work with reasonable promptness after receiving the Contractor's written request for such information or services.

§ 2.3.6 Unless otherwise provided in the Contract Documents, the Owner shall furnish to the Contractor one copy of the Contract Documents for purposes of making reproductions pursuant to Section 1.5.2.

§ 2.4 Owner's Right to Stop the Work

If the Contractor fails to correct Work that is not in accordance with the requirements of the Contract Documents as required by Section 12.2 or repeatedly fails to carry out Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent required by Section 6.1.3.

§ 2.5 Owner's Right to Carry Out the Work

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a ten-day period after receipt of notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, without prejudice to other remedies the Owner may have, correct such default or neglect. Such action by the Owner and amounts charged to the Contractor are both subject to prior approval of the Architect and the Architect may, pursuant to Section 9.5.1, withhold or nullify a Certificate for Payment in whole or in part, to the extent reasonably necessary to reimburse the Owner for the reasonable cost of correcting such deficiencies, including Owner's expenses and compensation for the Architect's additional services made necessary by such default, neglect, or failure. If current and future payments are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner. If the Contractor disagrees with the actions of the Owner or the Architect, or the amounts claimed as costs to the Owner, the Contractor may file a Claim pursuant to Article 15.

ARTICLE 3 CONTRACTOR

§ 3.1 General

§ 3.1.1 The Contractor is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Contractor shall be lawfully licensed, if required in the jurisdiction where the Project is located. The Contractor shall designate in writing a representative who shall have express authority to bind the Contractor with respect to all matters under this Contract. The term "Contractor" means the Contractor or the Contractor's authorized representative.

§ 3.1.2 The Contractor shall perform the Work in accordance with the Contract Documents.

§ 3.1.3 The Contractor shall not be relieved of its obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect in the Architect's administration of the Contract, or by tests, inspections or approvals required or performed by persons or entities other than the Contractor.

§ 3.2 Review of Contract Documents and Field Conditions by Contractor

§ 3.2.1 Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed, and correlated personal observations with requirements of the Contract Documents.

§ 3.2.2 Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner pursuant to Section 2.3.4, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Architect any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information in such form as the Architect may require. It is recognized that the Contractor's review is made in the Contractor's

capacity as a contractor and not as a licensed design professional, unless otherwise specifically provided in the Contract Documents.

§ 3.2.3 The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Architect any nonconformity discovered by or made known to the Contractor as a request for information in such form as the Architect may require.

§ 3.2.4 If the Contractor believes that additional cost or time is involved because of clarifications or instructions the Architect issues in response to the Contractor's notices or requests for information pursuant to Sections 3.2.2 or 3.2.3, the Contractor shall submit Claims as provided in Article 15. If the Contractor fails to perform the obligations of Sections 3.2.2 or 3.2.3, the Contractor shall pay such costs and damages to the Owner, subject to Section 15.1.7, as would have been avoided if the Contractor had performed such obligations. If the Contractor performs those obligations, the Contractor shall not be liable to the Owner or Architect for damages resulting from errors, inconsistencies or omissions in the Contract Documents, for differences between field measurements or conditions and the Contract Documents, or for nonconformities of the Contract Documents to applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities.

§ 3.3 Supervision and Construction Procedures

§ 3.3.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for, and have control over, construction means, methods, techniques, sequences, and procedures, and for coordinating all portions of the Work under the Contract. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences, or procedures, the Contractor shall evaluate the jobsite safety thereof and shall be solely responsible for the jobsite safety of such means, methods, techniques, sequences, or procedures. If the Contractor determines that such means, methods, techniques, sequences or procedures may not be safe, the Contractor shall give timely notice to the Owner and Architect, and shall propose alternative means, methods, techniques, sequences, or procedures. The Architect shall evaluate the proposed alternative solely for conformance with the design intent for the completed construction. Unless the Architect objects to the Contractor's proposed alternative, the Contractor shall perform the Work using its alternative means, methods, techniques, sequences, or procedures.

§ 3.3.2 The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for, or on behalf of, the Contractor or any of its Subcontractors.

§ 3.3.3 The Contractor shall be responsible for inspection of portions of Work already performed to determine that such portions are in proper condition to receive subsequent Work.

§ 3.4 Labor and Materials

§ 3.4.1 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

§ 3.4.2 Except in the case of minor changes in the Work approved by the Architect in accordance with Section 3.12.8 or ordered by the Architect in accordance with Section 7.4, the Contractor may make substitutions only with the consent of the Owner, after evaluation by the Architect and in accordance with a Change Order or Construction Change Directive.

§ 3.4.3 The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not properly skilled in tasks assigned to them.

§ 3.5 Warranty

§ 3.5.1 The Contractor warrants to the Owner and Architect that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes

remedy for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage. If required by the Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

§ 3.5.2 All material, equipment, or other special warranties required by the Contract Documents shall be issued in the name of the Owner, or shall be transferable to the Owner, and shall commence in accordance with Section 9.8.4.

§ 3.6 Taxes

The Contractor shall pay sales, consumer, use and similar taxes for the Work provided by the Contractor that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect.

§ 3.7 Permits, Fees, Notices and Compliance with Laws

§ 3.7.1 Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for the building permit as well as for other permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time bids are received or negotiations concluded.

§ 3.7.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work.

§ 3.7.3 If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

§ 3.7.4 Concealed or Unknown Conditions

If the Contractor encounters conditions at the site that are (1) subsurface or otherwise concealed physical conditions that differ materially from those indicated in the Contract Documents or (2) unknown physical conditions of an unusual nature that differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, the Contractor shall promptly provide notice to the Owner and the Architect before conditions are disturbed and in no event later than 14 days after first observance of the conditions. The Architect will promptly investigate such conditions and, if the Architect determines that they differ materially and cause an increase or decrease in the Contractor's cost of, or time required for, performance of any part of the Work, will recommend that an equitable adjustment be made in the Contract Sum or Contract Time, or both. If the Architect determines that the conditions at the site are not materially different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified, the Architect shall promptly notify the Owner and Contractor, stating the reasons. If either party disputes the Architect's determination or recommendation, that party may submit a Claim as provided in Article 15.

§ 3.7.5 If, in the course of the Work, the Contractor encounters human remains or recognizes the existence of burial markers, archaeological sites or wetlands not indicated in the Contract Documents, the Contractor shall immediately suspend any operations that would affect them and shall notify the Owner and Architect. Upon receipt of such notice, the Owner shall promptly take any action necessary to obtain governmental authorization required to resume the operations. The Contractor shall continue to suspend such operations until otherwise instructed by the Owner but shall continue with all other operations that do not affect those remains or features. Requests for adjustments in the Contract Sum and Contract Time arising from the existence of such remains or features may be made as provided in Article 15.

§ 3.8 Allowances

§ 3.8.1 The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. Items covered by allowances shall be supplied for such amounts and by such persons or entities as the Owner may direct, but the Contractor shall not be required to employ persons or entities to whom the Contractor has reasonable objection.

§ 3.8.2 Unless otherwise provided in the Contract Documents,

- .1 allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;
- .2 Contractor's costs for unloading and handling at the site, labor, installation costs, overhead, profit, and other expenses contemplated for stated allowance amounts shall be included in the Contract Sum but not in the allowances; and

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- .3 whenever costs are more than or less than allowances, the Contract Sum shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect (1) the difference between actual costs and the allowances under Section 3.8.2.1 and (2) changes in Contractor's costs under Section 3.8.2.2.

§ 3.8.3 Materials and equipment under an allowance shall be selected by the Owner with reasonable promptness.

§ 3.9 Superintendent

§ 3.9.1 The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site during performance of the Work. The superintendent shall represent the Contractor, and communications given to the superintendent shall be as binding as if given to the Contractor.

§ 3.9.2 The Contractor, as soon as practicable after award of the Contract, shall notify the Owner and Architect of the name and qualifications of a proposed superintendent. Within 14 days of receipt of the information, the Architect may notify the Contractor, stating whether the Owner or the Architect (1) has reasonable objection to the proposed superintendent or (2) requires additional time for review. Failure of the Architect to provide notice within the 14-day period shall constitute notice of no reasonable objection.

§ 3.9.3 The Contractor shall not employ a proposed superintendent to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not change the superintendent without the Owner's consent, which shall not unreasonably be withheld or delayed.

§ 3.10 Contractor's Construction and Submittal Schedules

§ 3.10.1 The Contractor, promptly after being awarded the Contract, shall submit for the Owner's and Architect's information a Contractor's construction schedule for the Work. The schedule shall contain detail appropriate for the Project, including (1) the date of commencement of the Work, interim schedule milestone dates, and the date of Substantial Completion; (2) an apportionment of the Work by construction activity; and (3) the time required for completion of each portion of the Work. The schedule shall provide for the orderly progression of the Work to completion and shall not exceed time limits current under the Contract Documents. The schedule shall be revised at appropriate intervals as required by the conditions of the Work and Project.

§ 3.10.2 The Contractor, promptly after being awarded the Contract and thereafter as necessary to maintain a current submittal schedule, shall submit a submittal schedule for the Architect's approval. The Architect's approval shall not be unreasonably delayed or withheld. The submittal schedule shall (1) be coordinated with the Contractor's construction schedule, and (2) allow the Architect reasonable time to review submittals. If the Contractor fails to submit a submittal schedule, or fails to provide submittals in accordance with the approved submittal schedule, the Contractor shall not be entitled to any increase in Contract Sum or extension of Contract Time based on the time required for review of submittals.

§ 3.10.3 The Contractor shall perform the Work in general accordance with the most recent schedules submitted to the Owner and Architect.

§ 3.11 Documents and Samples at the Site

The Contractor shall make available, at the Project site, the Contract Documents, including Change Orders, Construction Change Directives, and other Modifications, in good order and marked currently to indicate field changes and selections made during construction, and the approved Shop Drawings, Product Data, Samples, and similar required submittals. These shall be in electronic form or paper copy, available to the Architect and Owner, and delivered to the Architect for submittal to the Owner upon completion of the Work as a record of the Work as constructed.

§ 3.12 Shop Drawings, Product Data and Samples

§ 3.12.1 Shop Drawings are drawings, diagrams, schedules, and other data specially prepared for the Work by the Contractor or a Subcontractor, Sub-subcontractor, manufacturer, supplier, or distributor to illustrate some portion of the Work.

§ 3.12.2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.

§ 3.12.3 Samples are physical examples that illustrate materials, equipment, or workmanship, and establish standards by which the Work will be judged.

§ 3.12.4 Shop Drawings, Product Data, Samples, and similar submittals are not Contract Documents. Their purpose is to demonstrate how the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents for those portions of the Work for which the Contract Documents require submittals. Review by the Architect is subject to the limitations of Section 4.2.7. Informational submittals upon which the Architect is not expected to take responsive action may be so identified in the Contract Documents. Submittals that are not required by the Contract Documents may be returned by the Architect without action.

§ 3.12.5 The Contractor shall review for compliance with the Contract Documents, approve, and submit to the Architect, Shop Drawings, Product Data, Samples, and similar submittals required by the Contract Documents, in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of Separate Contractors.

§ 3.12.6 By submitting Shop Drawings, Product Data, Samples, and similar submittals, the Contractor represents to the Owner and Architect that the Contractor has (1) reviewed and approved them, (2) determined and verified materials, field measurements and field construction criteria related thereto, or will do so, and (3) checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

§ 3.12.7 The 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 approved by the Architect.

§ 3.12.8 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from the requirements of the Contract Documents by the Architect's approval of Shop Drawings, Product Data, Samples, or similar submittals, unless the Contractor has specifically notified the Architect of such deviation at the time of submittal and (1) the Architect has given written approval to the specific deviation as a minor change in the Work, or (2) a Change Order or Construction Change Directive has been issued authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples, or similar submittals, by the Architect's approval thereof.

§ 3.12.9 The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples, or similar submittals, to revisions other than those requested by the Architect on previous submittals. In the absence of such notice, the Architect's approval of a resubmission shall not apply to such revisions.

§ 3.12.10 The Contractor shall not be required to provide professional services that constitute the practice of architecture or engineering unless such services are specifically required by the Contract Documents for a portion of the Work or unless the Contractor needs to provide such services in order to carry out the Contractor's responsibilities for construction means, methods, techniques, sequences, and procedures. The Contractor shall not be required to provide professional services in violation of applicable law.

§ 3.12.10.1 If professional design services or certifications by a design professional related to systems, materials, or equipment are specifically required of the Contractor by the Contract Documents, the Owner and the Architect will specify all performance and design criteria that such services must satisfy. The Contractor shall be entitled to rely upon the adequacy and accuracy of the performance and design criteria provided in the Contract Documents. The Contractor shall cause such services or certifications to be provided by an appropriately licensed design professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop Drawings, and other submittals prepared by such professional. Shop Drawings, and other submittals related to the Work, designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to the Architect. The Owner and the Architect shall be entitled to rely upon the adequacy and accuracy of the services, certifications, and approvals performed or provided by such design professionals, provided the Owner and Architect have specified to the Contractor the performance and design criteria that such services must satisfy. Pursuant to this Section 3.12.10, the Architect will review and approve or take other appropriate action on submittals only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents.

§ 3.12.10.2 If the Contract Documents require the Contractor's design professional to certify that the Work has been performed in accordance with the design criteria, the Contractor shall furnish such certifications to the Architect at the

time and in the form specified by the Architect.

§ 3.13 Use of Site

The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, lawful orders of public authorities, and the Contract Documents and shall not unreasonably encumber the site with materials or equipment.

§ 3.14 Cutting and Patching

§ 3.14.1 The Contractor shall be responsible for cutting, fitting, or patching required to complete the Work or to make its parts fit together properly. All areas requiring cutting, fitting, or patching shall be restored to the condition existing prior to the cutting, fitting, or patching, unless otherwise required by the Contract Documents.

§ 3.14.2 The Contractor shall not damage or endanger a portion of the Work or fully or partially completed construction of the Owner or Separate Contractors by cutting, patching, or otherwise altering such construction, or by excavation. The Contractor shall not cut or otherwise alter construction by the Owner or a Separate Contractor except with written consent of the Owner and of the Separate Contractor. Consent shall not be unreasonably withheld. The Contractor shall not unreasonably withhold, from the Owner or a Separate Contractor, its consent to cutting or otherwise altering the Work.

§ 3.15 Cleaning Up

§ 3.15.1 The Contractor shall keep the premises and surrounding area free from accumulation of waste materials and rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall remove waste materials, rubbish, the Contractor's tools, construction equipment, machinery, and surplus materials from and about the Project.

§ 3.15.2 If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and the Owner shall be entitled to reimbursement from the Contractor.

§ 3.16 Access to Work

The Contractor shall provide the Owner and Architect with access to the Work in preparation and progress wherever located.

§ 3.17 Royalties, Patents and Copyrights

The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Owner and Architect harmless from loss on account thereof, but shall not be responsible for defense or loss when a particular design, process, or product of a particular manufacturer or manufacturers is required by the Contract Documents, or where the copyright violations are contained in Drawings, Specifications, or other documents prepared by the Owner or Architect. However, if an infringement of a copyright or patent is discovered by, or made known to, the Contractor, the Contractor shall be responsible for the loss unless the information is promptly furnished to the Architect.

§ 3.18 Indemnification

§ 3.18.1 To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Owner, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses, and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss, or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity that would otherwise exist as to a party or person described in this Section 3.18.

§ 3.18.2 In claims against any person or entity indemnified under this Section 3.18 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, the indemnification obligation under Section 3.18.1 shall not be limited by a limitation on amount or type of damages, compensation, or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts, or other employee benefit acts.

ARTICLE 4 ARCHITECT

§ 4.1 General

§ 4.1.1 The Architect is the person or entity retained by the Owner pursuant to Section 2.3.2 and identified as such in the Agreement.

§ 4.1.2 Duties, responsibilities, and limitations of authority of the Architect as set forth in the Contract Documents shall not be restricted, modified, or extended without written consent of the Owner, Contractor, and Architect. Consent shall not be unreasonably withheld.

§ 4.2 Administration of the Contract

§ 4.2.1 The Architect will provide administration of the Contract as described in the Contract Documents and will be an Owner's representative during construction until the date the Architect issues the final Certificate for Payment. The Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents.

§ 4.2.2 The Architect will visit the site at intervals appropriate to the stage of construction, or as otherwise agreed with the Owner, to become generally familiar with the progress and quality of the portion of the Work completed, and to determine in general if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Architect will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Architect will not have control over, charge of, or responsibility for the construction means, methods, techniques, sequences or procedures, or for the safety precautions and programs in connection with the Work, since these are solely the Contractor's rights and responsibilities under the Contract Documents.

§ 4.2.3 On the basis of the site visits, the Architect will keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and promptly report to the Owner (1) known deviations from the Contract Documents, (2) known deviations from the most recent construction schedule submitted by the Contractor, and (3) defects and deficiencies observed in the Work. The Architect will not be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. The Architect will not have control over or charge of, and will not be responsible for acts or omissions of, the Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing portions of the Work.

§ 4.2.4 Communications

The Owner and Contractor shall include the Architect in all communications that relate to or affect the Architect's services or professional responsibilities. The Owner shall promptly notify the Architect of the substance of any direct communications between the Owner and the Contractor otherwise relating to the Project. Communications by and with the Architect's consultants shall be through the Architect. Communications by and with Subcontractors and suppliers shall be through the Contractor. Communications by and with Separate Contractors shall be through the Owner. The Contract Documents may specify other communication protocols.

§ 4.2.5 Based on the Architect's evaluations of the Contractor's Applications for Payment, the Architect will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

§ 4.2.6 The Architect has authority to reject Work that does not conform to the Contract Documents. Whenever the Architect considers it necessary or advisable, the Architect will have authority to require inspection or testing of the Work in accordance with Sections 13.4.2 and 13.4.3, whether or not the Work is fabricated, installed or completed. However, neither this authority of the Architect nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect to the Contractor, Subcontractors, suppliers, their agents or employees, or other persons or entities performing portions of the Work.

§ 4.2.7 The Architect will review and approve, or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data, and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Architect's action will be taken in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness while allowing sufficient time in the Architect's professional judgment to permit adequate review. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect's review of the Contractor's submittals shall not relieve the Contractor of the obligations under

Sections 3.3, 3.5, and 3.12. The Architect's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences, or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component.

§ 4.2.8 The Architect will prepare Change Orders and Construction Change Directives, and may order minor changes in the Work as provided in Section 7.4. The Architect will investigate and make determinations and recommendations regarding concealed and unknown conditions as provided in Section 3.7.4.

§ 4.2.9 The Architect will conduct inspections to determine the date or dates of Substantial Completion and the date of final completion; issue Certificates of Substantial Completion pursuant to Section 9.8; receive and forward to the Owner, for the Owner's review and records, written warranties and related documents required by the Contract and assembled by the Contractor pursuant to Section 9.10; and issue a final Certificate for Payment pursuant to Section 9.10.

§ 4.2.10 If the Owner and Architect agree, the Architect will provide one or more Project representatives to assist in carrying out the Architect's responsibilities at the site. The Owner shall notify the Contractor of any change in the duties, responsibilities and limitations of authority of the Project representatives.

§ 4.2.11 The Architect will interpret and decide matters concerning performance under, and requirements of, the Contract Documents on written request of either the Owner or Contractor. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness.

§ 4.2.12 Interpretations and decisions of the Architect will be consistent with the intent of, and reasonably inferable from, the Contract Documents and will be in writing or in the form of drawings. When making such interpretations and decisions, the Architect will endeavor to secure faithful performance by both Owner and Contractor, will not show partiality to either, and will not be liable for results of interpretations or decisions rendered in good faith.

§ 4.2.13 The Architect's decisions on matters relating to aesthetic effect will be final if consistent with the intent expressed in the Contract Documents.

§ 4.2.14 The Architect will review and respond to requests for information about the Contract Documents. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness. If appropriate, the Architect will prepare and issue supplemental Drawings and Specifications in response to the requests for information.

ARTICLE 5 SUBCONTRACTORS

§ 5.1 Definitions

§ 5.1.1 A Subcontractor is a person or entity who has a direct contract with the 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 means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a Separate Contractor or the subcontractors of a Separate Contractor.

§ 5.1.2 A Sub-subcontractor is a person or entity who has a direct or indirect contract with a Subcontractor to perform a portion of the Work at the site. The term "Sub-subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Sub-subcontractor or an authorized representative of the Sub-subcontractor.

§ 5.2 Award of Subcontracts and Other Contracts for Portions of the Work

§ 5.2.1 Unless otherwise stated in the Contract Documents, the Contractor, as soon as practicable after award of the Contract, shall notify the Owner and Architect of the persons or entities proposed for each principal portion of the Work, including those who are to furnish materials or equipment fabricated to a special design. Within 14 days of receipt of the information, the Architect may notify the Contractor whether the Owner or the Architect (1) has reasonable objection to any such proposed person or entity or (2) requires additional time for review. Failure of the Architect to provide notice within the 14-day period shall constitute notice of no reasonable objection.

§ 5.2.2 The Contractor shall not contract with a proposed person or entity to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not be required to contract with anyone to whom the Contractor has made reasonable objection.

§ 5.2.3 If the Owner or Architect has reasonable objection to a person or entity proposed by the Contractor, the

Contractor shall propose another to whom the Owner or Architect has no reasonable objection. If the proposed but rejected Subcontractor was reasonably capable of performing the Work, the Contract Sum and Contract Time shall be increased or decreased by the difference, if any, occasioned by such change, and an appropriate Change Order shall be issued before commencement of the substitute Subcontractor's Work. However, no increase in the Contract Sum or Contract Time shall be allowed for such change unless the Contractor has acted promptly and responsively in submitting names as required.

§ 5.2.4 The Contractor shall not substitute a Subcontractor, person, or entity for one previously selected if the Owner or Architect makes reasonable objection to such substitution.

§ 5.3 Subcontractual Relations

By appropriate written agreement, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work that the Contractor, by these Contract Documents, assumes toward the Owner and Architect. Each subcontract agreement shall preserve and protect the rights of the Owner and Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights, and shall allow to the Subcontractor, unless specifically provided otherwise in the subcontract agreement, the benefit of all rights, remedies, and redress against the Contractor that the Contractor, by the Contract Documents, has against the Owner. Where appropriate, the Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor, prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound, and, upon written request of the Subcontractor, identify to the Subcontractor terms and conditions of the proposed subcontract agreement that may be at variance with the Contract Documents. Subcontractors will similarly make copies of applicable portions of such documents available to their respective proposed Sub-subcontractors.

§ 5.4 Contingent Assignment of Subcontracts

§ 5.4.1 Each subcontract agreement for a portion of the Work is assigned by the Contractor to the Owner, provided that

- .1 assignment is effective only after termination of the Contract by the Owner for cause pursuant to Section 14.2 and only for those subcontract agreements that the Owner accepts by notifying the Subcontractor and Contractor; and
- .2 assignment is subject to the prior rights of the surety, if any, obligated under bond relating to the Contract.

When the Owner accepts the assignment of a subcontract agreement, the Owner assumes the Contractor's rights and obligations under the subcontract.

§ 5.4.2 Upon such assignment, if the Work has been suspended for more than 30 days, the Subcontractor's compensation shall be equitably adjusted for increases in cost resulting from the suspension.

§ 5.4.3 Upon assignment to the Owner under this Section 5.4, the Owner may further assign the subcontract to a successor contractor or other entity. If the Owner assigns the subcontract to a successor contractor or other entity, the Owner shall nevertheless remain legally responsible for all of the successor contractor's obligations under the subcontract.

ARTICLE 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

§ 6.1 Owner's Right to Perform Construction and to Award Separate Contracts

§ 6.1.1 The term "Separate Contractor(s)" shall mean other contractors retained by the Owner under separate agreements. The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and with Separate Contractors retained under Conditions of the Contract substantially similar to those of this Contract, including those provisions of the Conditions of the Contract related to insurance and waiver of subrogation.

§ 6.1.2 When separate contracts are awarded for different portions of the Project or other construction or operations on the site, the term "Contractor" in the Contract Documents in each case shall mean the Contractor who executes each separate Owner-Contractor Agreement.

§ 6.1.3 The Owner shall provide for coordination of the activities of the Owner's own forces and of each Separate

Contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall participate with any Separate Contractors and the Owner in reviewing their construction schedules. The Contractor shall make any revisions to its construction schedule deemed necessary after a joint review and mutual agreement. The construction schedules shall then constitute the schedules to be used by the Contractor, Separate Contractors, and the Owner until subsequently revised.

§ 6.1.4 Unless otherwise provided in the Contract Documents, when the Owner performs construction or operations related to the Project with the Owner's own forces or with Separate Contractors, the Owner or its Separate Contractors shall have the same obligations and rights that the Contractor has under the Conditions of the Contract, including, without excluding others, those stated in Article 3, this Article 6, and Articles 10, 11, and 12.

§ 6.2 Mutual Responsibility

§ 6.2.1 The Contractor shall afford the Owner and Separate Contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities, and shall connect and coordinate the Contractor's construction and operations with theirs as required by the Contract Documents.

§ 6.2.2 If part of the Contractor's Work depends for proper execution or results upon construction or operations by the Owner or a Separate Contractor, the Contractor shall, prior to proceeding with that portion of the Work, promptly notify the Architect of apparent discrepancies or defects in the construction or operations by the Owner or Separate Contractor that would render it unsuitable for proper execution and results of the Contractor's Work. Failure of the Contractor to notify the Architect of apparent discrepancies or defects prior to proceeding with the Work shall constitute an acknowledgment that the Owner's or Separate Contractor's completed or partially completed construction is fit and proper to receive the Contractor's Work. The Contractor shall not be responsible for discrepancies or defects in the construction or operations by the Owner or Separate Contractor that are not apparent.

§ 6.2.3 The Contractor shall reimburse the Owner for costs the Owner incurs that are payable to a Separate Contractor because of the Contractor's delays, improperly timed activities or defective construction. The Owner shall be responsible to the Contractor for costs the Contractor incurs because of a Separate Contractor's delays, improperly timed activities, damage to the Work or defective construction.

§ 6.2.4 The Contractor shall promptly remedy damage that the Contractor wrongfully causes to completed or partially completed construction or to property of the Owner or Separate Contractor as provided in Section 10.2.5.

§ 6.2.5 The Owner and each Separate Contractor shall have the same responsibilities for cutting and patching as are described for the Contractor in Section 3.14.

§ 6.3 Owner's Right to Clean Up

If a dispute arises among the Contractor, Separate Contractors, and the Owner as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish, the Owner may clean up and the Architect will allocate the cost among those responsible.

ARTICLE 7 CHANGES IN THE WORK

§ 7.1 General

§ 7.1.1 Changes in the Work may be accomplished after execution of the Contract, and without invalidating the Contract, by Change Order, Construction Change Directive or order for a minor change in the Work, subject to the limitations stated in this Article 7 and elsewhere in the Contract Documents.

§ 7.1.2 A Change Order shall be based upon agreement among the Owner, Contractor, and Architect. A Construction Change Directive requires agreement by the Owner and Architect and may or may not be agreed to by the Contractor. An order for a minor change in the Work may be issued by the Architect alone.

§ 7.1.3 Changes in the Work shall be performed under applicable provisions of the Contract Documents. The Contractor shall proceed promptly with changes in the Work, unless otherwise provided in the Change Order, Construction Change Directive, or order for a minor change in the Work.

§ 7.2 Change Orders

§ 7.2.1 A Change Order is a written instrument prepared by the Architect and signed by the Owner, Contractor, and Architect stating their agreement upon all of the following:

Init.

- .1 The change in the Work;
- .2 The amount of the adjustment, if any, in the Contract Sum; and
- .3 The extent of the adjustment, if any, in the Contract Time.

§ 7.3 Construction Change Directives

§ 7.3.1 A Construction Change Directive is a written order prepared by the Architect and signed by the Owner and Architect, directing a change in the Work prior to agreement on adjustment, if any, in the Contract Sum or Contract Time, or both. The Owner may by Construction Change Directive, without invalidating the Contract, order changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions, the Contract Sum and Contract Time being adjusted accordingly.

§ 7.3.2 A Construction Change Directive shall be used in the absence of total agreement on the terms of a Change Order.

§ 7.3.3 If the Construction Change Directive provides for an adjustment to the Contract Sum, the adjustment shall be based on one of the following methods:

- .1 Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;
- .2 Unit prices stated in the Contract Documents or subsequently agreed upon;
- .3 Cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee; or
- .4 As provided in Section 7.3.4.

§ 7.3.4 If the Contractor does not respond promptly or disagrees with the method for adjustment in the Contract Sum, the Architect shall determine the adjustment on the basis of reasonable expenditures and savings of those performing the Work attributable to the change, including, in case of an increase in the Contract Sum, an amount for overhead and profit as set forth in the Agreement, or if no such amount is set forth in the Agreement, a reasonable amount. In such case, and also under Section 7.3.3.3, the Contractor shall keep and present, in such form as the Architect may prescribe, an itemized accounting together with appropriate supporting data. Unless otherwise provided in the Contract Documents, costs for the purposes of this Section 7.3.4 shall be limited to the following:

- .1 Costs of labor, including applicable payroll taxes, fringe benefits required by agreement or custom, workers' compensation insurance, and other employee costs approved by the Architect;
- .2 Costs of materials, supplies, and equipment, including cost of transportation, whether incorporated or consumed;
- .3 Rental costs of machinery and equipment, exclusive of hand tools, whether rented from the Contractor or others;
- .4 Costs of premiums for all bonds and insurance, permit fees, and sales, use, or similar taxes, directly related to the change; and
- .5 Costs of supervision and field office personnel directly attributable to the change.

§ 7.3.5 If the Contractor disagrees with the adjustment in the Contract Time, the Contractor may make a Claim in accordance with applicable provisions of Article 15.

§ 7.3.6 Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved and advise the Architect of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Sum or Contract Time.

§ 7.3.7 A Construction Change Directive signed by the Contractor indicates the Contractor's agreement therewith, including adjustment in Contract Sum and Contract Time or the method for determining them. Such agreement shall be effective immediately and shall be recorded as a Change Order.

§ 7.3.8 The amount of credit to be allowed by the Contractor to the Owner for a deletion or change that results in a net decrease in the Contract Sum shall be actual net cost as confirmed by the Architect. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase, if any, with respect to that change.

§ 7.3.9 Pending final determination of the total cost of a Construction Change Directive to the Owner, the Contractor may request payment for Work completed under the Construction Change Directive in Applications for Payment. The

Architect will make an interim determination for purposes of monthly certification for payment for those costs and certify for payment the amount that the Architect determines, in the Architect's professional judgment, to be reasonably justified. The Architect's interim determination of cost shall adjust the Contract Sum on the same basis as a Change Order, subject to the right of either party to disagree and assert a Claim in accordance with Article 15.

§ 7.3.10 When the Owner and Contractor agree with a determination made by the Architect concerning the adjustments in the Contract Sum and Contract Time, or otherwise reach agreement upon the adjustments, such agreement shall be effective immediately and the Architect will prepare a Change Order. Change Orders may be issued for all or any part of a Construction Change Directive.

§ 7.4 Minor Changes in the Work

The Architect may order minor changes in the Work that are consistent with the intent of the Contract Documents and do not involve an adjustment in the Contract Sum or an extension of the Contract Time. The Architect's order for minor changes shall be in writing. If the Contractor believes that the proposed minor change in the Work will affect the Contract Sum or Contract Time, the Contractor shall notify the Architect and shall not proceed to implement the change in the Work. If the Contractor performs the Work set forth in the Architect's order for a minor change without prior notice to the Architect that such change will affect the Contract Sum or Contract Time, the Contractor waives any adjustment to the Contract Sum or extension of the Contract Time.

ARTICLE 8 TIME

§ 8.1 Definitions

§ 8.1.1 Unless otherwise provided, Contract Time is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion of the Work.

§ 8.1.2 The date of commencement of the Work is the date established in the Agreement.

§ 8.1.3 The date of Substantial Completion is the date certified by the Architect in accordance with Section 9.8.

§ 8.1.4 The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

§ 8.2 Progress and Completion

§ 8.2.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing the Agreement, the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

§ 8.2.2 The Contractor shall not knowingly, except by agreement or instruction of the Owner in writing, commence the Work prior to the effective date of insurance required to be furnished by the Contractor and Owner.

§ 8.2.3 The Contractor shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time.

§ 8.3 Delays and Extensions of Time

§ 8.3.1 If the Contractor is delayed at any time in the commencement or progress of the Work by (1) an act or neglect of the Owner or Architect, of an employee of either, or of a Separate Contractor; (2) by changes ordered in the Work; (3) by labor disputes, fire, unusual delay in deliveries, unavoidable casualties, adverse weather conditions documented in accordance with Section 15.1.6.2, or other causes beyond the Contractor's control; (4) by delay authorized by the Owner pending mediation and binding dispute resolution; or (5) by other causes that the Contractor asserts, and the Architect determines, justify delay, then the Contract Time shall be extended for such reasonable time as the Architect may determine.

§ 8.3.2 Claims relating to time shall be made in accordance with applicable provisions of Article 15.

§ 8.3.3 This Section 8.3 does not preclude recovery of damages for delay by either party under other provisions of the Contract Documents.

ARTICLE 9 PAYMENTS AND COMPLETION

§ 9.1 Contract Sum

§ 9.1.1 The Contract Sum is stated in the Agreement and, including authorized adjustments, is the total amount payable

by the Owner to the Contractor for performance of the Work under the Contract Documents.

§ 9.1.2 If unit prices are stated in the Contract Documents or subsequently agreed upon, and if quantities originally contemplated are materially changed so that application of such unit prices to the actual quantities causes substantial inequity to the Owner or Contractor, the applicable unit prices shall be equitably adjusted.

§ 9.2 Schedule of Values

Where the Contract is based on a stipulated sum or Guaranteed Maximum Price, the Contractor shall submit a schedule of values to the Architect before the first Application for Payment, allocating the entire Contract Sum to the various portions of the Work. The schedule of values shall be prepared in the form, and supported by the data to substantiate its accuracy, required by the Architect. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment. Any changes to the schedule of values shall be submitted to the Architect and supported by such data to substantiate its accuracy as the Architect may require, and unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's subsequent Applications for Payment.

§ 9.3 Applications for Payment

§ 9.3.1 At least ten days before the date established for each progress payment, the Contractor shall submit to the Architect an itemized Application for Payment prepared in accordance with the schedule of values, if required under Section 9.2, for completed portions of the Work. The application shall be notarized, if required, and supported by all data substantiating the Contractor's right to payment that the Owner or Architect require, such as copies of requisitions, and releases and waivers of liens from Subcontractors and suppliers, and shall reflect retainage if provided for in the Contract Documents.

§ 9.3.1.1 As provided in Section 7.3.9, such applications may include requests for payment on account of changes in the Work that have been properly authorized by Construction Change Directives, or by interim determinations of the Architect, but not yet included in Change Orders.

§ 9.3.1.2 Applications for Payment shall not include requests for payment for portions of the Work for which the Contractor does not intend to pay a Subcontractor or supplier, unless such Work has been performed by others whom the Contractor intends to pay.

§ 9.3.2 Unless otherwise provided in the Contract Documents, payments shall be made on account of materials and equipment delivered and suitably stored at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may similarly be made for materials and equipment suitably stored off the site at a location agreed upon in writing. Payment for materials and equipment stored on or off the site shall be conditioned upon compliance by the Contractor with procedures satisfactory to the Owner to establish the Owner's title to such materials and equipment or otherwise protect the Owner's interest, and shall include the costs of applicable insurance, storage, and transportation to the site, for such materials and equipment stored off the site.

§ 9.3.3 The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an Application for Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information, and belief, be free and clear of liens, claims, security interests, or encumbrances, in favor of the Contractor, Subcontractors, suppliers, or other persons or entities that provided labor, materials, and equipment relating to the Work.

§ 9.4 Certificates for Payment

§ 9.4.1 The Architect will, within seven days after receipt of the Contractor's Application for Payment, either (1) issue to the Owner a Certificate for Payment in the full amount of the Application for Payment, with a copy to the Contractor; or (2) issue to the Owner a Certificate for Payment for such amount as the Architect determines is properly due, and notify the Contractor and Owner of the Architect's reasons for withholding certification in part as provided in Section 9.5.1; or (3) withhold certification of the entire Application for Payment, and notify the Contractor and Owner of the Architect's reason for withholding certification in whole as provided in Section 9.5.1.

§ 9.4.2 The issuance of a Certificate for Payment will constitute a representation by the Architect to the Owner, based on the Architect's evaluation of the Work and the data in the Application for Payment, that, to the best of the Architect's knowledge, information, and belief, the Work has progressed to the point indicated, the quality of the Work is in accordance with the Contract Documents, and that the Contractor is entitled to payment in the amount certified. The

foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion, and to specific qualifications expressed by the Architect. However, the issuance of a Certificate for Payment will not be a representation that the Architect has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work; (2) reviewed construction means, methods, techniques, sequences, or procedures; (3) reviewed copies of requisitions received from Subcontractors and suppliers and other data requested by the Owner to substantiate the Contractor's right to payment; or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

§ 9.5 Decisions to Withhold Certification

§ 9.5.1 The Architect may withhold a Certificate for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in the Architect's opinion the representations to the Owner required by Section 9.4.2 cannot be made. If the Architect is unable to certify payment in the amount of the Application, the Architect will notify the Contractor and Owner as provided in Section 9.4.1. If the Contractor and Architect cannot agree on a revised amount, the Architect will promptly issue a Certificate for Payment for the amount for which the Architect is able to make such representations to the Owner. The Architect may also withhold a Certificate for Payment or, because of subsequently discovered evidence, may nullify the whole or a part of a Certificate for Payment previously issued, to such extent as may be necessary in the Architect's opinion to protect the Owner from loss for which the Contractor is responsible, including loss resulting from acts and omissions described in Section 3.3.2, because of

- .1 defective Work not remedied;
- .2 third party claims filed or reasonable evidence indicating probable filing of such claims, unless security acceptable to the Owner is provided by the Contractor;
- .3 failure of the Contractor to make payments properly to Subcontractors or suppliers for labor, materials or equipment;
- .4 reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;
- .5 damage to the Owner or a Separate Contractor;
- .6 reasonable evidence that the Work will not be completed within the Contract Time, and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay; or
- .7 repeated failure to carry out the Work in accordance with the Contract Documents.

§ 9.5.2 When either party disputes the Architect's decision regarding a Certificate for Payment under Section 9.5.1, in whole or in part, that party may submit a Claim in accordance with Article 15.

§ 9.5.3 When the reasons for withholding certification are removed, certification will be made for amounts previously withheld.

§ 9.5.4 If the Architect withholds certification for payment under Section 9.5.1.3, the Owner may, at its sole option, issue joint checks to the Contractor and to any Subcontractor or supplier to whom the Contractor failed to make payment for Work properly performed or material or equipment suitably delivered. If the Owner makes payments by joint check, the Owner shall notify the Architect and the Contractor shall reflect such payment on its next Application for Payment.

§ 9.6 Progress Payments

§ 9.6.1 After the Architect has issued a Certificate for Payment, the Owner shall make payment in the manner and within the time provided in the Contract Documents, and shall so notify the Architect.

§ 9.6.2 The Contractor shall pay each Subcontractor, no later than seven days after receipt of payment from the Owner, the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner.

§ 9.6.3 The Architect will, on request, furnish to a Subcontractor, if practicable, information regarding percentages of completion or amounts applied for by the Contractor and action taken thereon by the Architect and Owner on account of portions of the Work done by such Subcontractor.

§ 9.6.4 The Owner has the right to request written evidence from the Contractor that the Contractor has properly paid Subcontractors and suppliers amounts paid by the Owner to the Contractor for subcontracted Work. If the Contractor fails to furnish such evidence within seven days, the Owner shall have the right to contact Subcontractors and suppliers

to ascertain whether they have been properly paid. Neither the Owner nor Architect shall have an obligation to pay, or to see to the payment of money to, a Subcontractor or supplier, except as may otherwise be required by law.

§ 9.6.5 The Contractor's payments to suppliers shall be treated in a manner similar to that provided in Sections 9.6.2, 9.6.3 and 9.6.4.

§ 9.6.6 A Certificate for Payment, a progress payment, or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work not in accordance with the Contract Documents.

§ 9.6.7 Unless the Contractor provides the Owner with a payment bond in the full penal sum of the Contract Sum, payments received by the Contractor for Work properly performed by Subcontractors or provided by suppliers shall be held by the Contractor for those Subcontractors or suppliers who performed Work or furnished materials, or both, under contract with the Contractor for which payment was made by the Owner. Nothing contained herein shall require money to be placed in a separate account and not commingled with money of the Contractor, create any fiduciary liability or tort liability on the part of the Contractor for breach of trust, or entitle any person or entity to an award of punitive damages against the Contractor for breach of the requirements of this provision.

§ 9.6.8 Provided the Owner has fulfilled its payment obligations under the Contract Documents, the Contractor shall defend and indemnify the Owner from all loss, liability, damage or expense, including reasonable attorney's fees and litigation expenses, arising out of any lien claim or other claim for payment by any Subcontractor or supplier of any tier. Upon receipt of notice of a lien claim or other claim for payment, the Owner shall notify the Contractor. If approved by the applicable court, when required, the Contractor may substitute a surety bond for the property against which the lien or other claim for payment has been asserted.

§ 9.7 Failure of Payment

If the Architect does not issue a Certificate for Payment, through no fault of the Contractor, within seven days after receipt of the Contractor's Application for Payment, or if the Owner does not pay the Contractor within seven days after the date established in the Contract Documents, the amount certified by the Architect or awarded by binding dispute resolution, then the Contractor may, upon seven additional days' notice to the Owner and Architect, stop the Work until payment of the amount owing has been received. The Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shutdown, delay and start-up, plus interest as provided for in the Contract Documents.

§ 9.8 Substantial Completion

§ 9.8.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use.

§ 9.8.2 When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Architect a comprehensive list of items to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

§ 9.8.3 Upon receipt of the Contractor's list, the Architect will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the Architect's inspection discloses any item, whether or not included on the Contractor's list, which is not sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work or designated portion thereof for its intended use, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Architect. In such case, the Contractor shall then submit a request for another inspection by the Architect to determine Substantial Completion.

§ 9.8.4 When the Work or designated portion thereof is substantially complete, the Architect will prepare a Certificate of Substantial Completion that shall establish the date of Substantial Completion; establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance; and fix the time within which the Contractor shall finish all items on the list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion.

§ 9.8.5 The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in the Certificate. Upon such acceptance, and consent of surety if any, the Owner shall make payment of retainage applying to the Work or designated portion thereof. Such payment shall be adjusted for Work that is incomplete or not in accordance with the requirements of the Contract Documents.

§ 9.9 Partial Occupancy or Use

§ 9.9.1 The Owner may occupy or use any completed or partially completed portion of the Work at any stage when such portion is designated by separate agreement with the Contractor, provided such occupancy or use is consented to by the insurer and authorized by public authorities having jurisdiction over the Project. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the Owner and Contractor have accepted in writing the responsibilities assigned to each of them for payments, retainage, if any, security, maintenance, heat, utilities, damage to the Work and insurance, and have agreed in writing concerning the period for correction of the Work and commencement of warranties required by the Contract Documents. When the Contractor considers a portion substantially complete, the Contractor shall prepare and submit a list to the Architect as provided under Section 9.8.2. Consent of the Contractor to partial occupancy or use shall not be unreasonably withheld. The stage of the progress of the Work shall be determined by written agreement between the Owner and Contractor or, if no agreement is reached, by decision of the Architect.

§ 9.9.2 Immediately prior to such partial occupancy or use, the Owner, Contractor, and Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

§ 9.9.3 Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

§ 9.10 Final Completion and Final Payment

§ 9.10.1 Upon receipt of the Contractor's notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Architect will promptly make such inspection. When the Architect finds the Work acceptable under the Contract Documents and the Contract fully performed, the Architect will promptly issue a final Certificate for Payment stating that to the best of the Architect's knowledge, information and belief, and on the basis of the Architect's on-site visits and inspections, the Work has been completed in accordance with the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Architect's final Certificate for Payment will constitute a further representation that conditions listed in Section 9.10.2 as precedent to the Contractor's being entitled to final payment have been fulfilled.

§ 9.10.2 Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Architect (1) an affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner) have been paid or otherwise satisfied, (2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect, (3) a written statement that the Contractor knows of no reason that the insurance will not be renewable to cover the period required by the Contract Documents, (4) consent of surety, if any, to final payment, (5) documentation of any special warranties, such as manufacturers' warranties or specific Subcontractor warranties, and (6) if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts and releases and waivers of liens, claims, security interests, or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien, claim, security interest, or encumbrance. If a lien, claim, security interest, or encumbrance remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging the lien, claim, security interest, or encumbrance, including all costs and reasonable attorneys' fees.

§ 9.10.3 If, after Substantial Completion of the Work, final completion thereof is materially delayed through no fault of the Contractor or by issuance of Change Orders affecting final completion, and the Architect so confirms, the Owner shall, upon application by the Contractor and certification by the Architect, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed, corrected, and accepted. If the remaining balance for Work not fully completed or corrected is less than retainage stipulated in the Contract Documents, and if bonds have been furnished, the written consent of the surety to payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Contractor to the Architect prior to certification of such payment. Such payment shall be made under terms and conditions governing final payment, except that it shall not

constitute a waiver of Claims.

§ 9.10.4 The making of final payment shall constitute a waiver of Claims by the Owner except those arising from

- .1 liens, Claims, security interests, or encumbrances arising out of the Contract and unsettled;
- .2 failure of the Work to comply with the requirements of the Contract Documents;
- .3 terms of special warranties required by the Contract Documents; or
- .4 audits performed by the Owner, if permitted by the Contract Documents, after final payment.

§ 9.10.5 Acceptance of final payment by the Contractor, a Subcontractor, or a supplier, shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of final Application for Payment.

ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

§ 10.1 Safety Precautions and Programs

The Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Contract.

§ 10.2 Safety of Persons and Property

§ 10.2.1 The Contractor shall take reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury, or loss to

- .1 employees on the Work and other persons who may be affected thereby;
- .2 the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody, or control of the Contractor, a Subcontractor, or a Sub-subcontractor; and
- .3 other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction.

§ 10.2.2 The Contractor shall comply with, and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities, bearing on safety of persons or property or their protection from damage, injury, or loss.

§ 10.2.3 The Contractor shall implement, erect, and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards; promulgating safety regulations; and notifying the owners and users of adjacent sites and utilities of the safeguards.

§ 10.2.4 When use or storage of explosives or other hazardous materials or equipment, or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel.

§ 10.2.5 The Contractor shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to property referred to in Sections 10.2.1.2 and 10.2.1.3 caused in whole or in part by the Contractor, a Subcontractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2.1.2 and 10.2.1.3. The Contractor may make a Claim for the cost to remedy the damage or loss to the extent such damage or loss is attributable to acts or omissions of the Owner or Architect or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 3.18.

§ 10.2.6 The Contractor shall designate a responsible member of the Contractor's organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor in writing to the Owner and Architect.

§ 10.2.7 The Contractor shall not permit any part of the construction or site to be loaded so as to cause damage or create an unsafe condition.

§ 10.2.8 Injury or Damage to Person or Property

If either party suffers injury or damage to person or property because of an act or omission of the other party, or of others for whose acts such party is legally responsible, notice of the injury or damage, whether or not insured, shall be given to the other party within a reasonable time not exceeding 21 days after discovery. The notice shall provide sufficient detail to enable the other party to investigate the matter.

§ 10.3 Hazardous Materials and Substances

§ 10.3.1 The Contractor is responsible for compliance with any requirements included in the Contract Documents regarding hazardous materials or substances. If the Contractor encounters a hazardous material or substance not addressed in the Contract Documents and if reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including but not limited to asbestos or polychlorinated biphenyl (PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and notify the Owner and Architect of the condition.

§ 10.3.2 Upon receipt of the Contractor's notice, the Owner shall obtain the services of a licensed laboratory to verify the presence or absence of the material or substance reported by the Contractor and, in the event such material or substance is found to be present, to cause it to be rendered harmless. Unless otherwise required by the Contract Documents, the Owner shall furnish in writing to the Contractor and Architect the names and qualifications of persons or entities who are to perform tests verifying the presence or absence of the material or substance or who are to perform the task of removal or safe containment of the material or substance. The Contractor and the Architect will promptly reply to the Owner in writing stating whether or not either has reasonable objection to the persons or entities proposed by the Owner. If either the Contractor or Architect has an objection to a person or entity proposed by the Owner, the Owner shall propose another to whom the Contractor and the Architect have no reasonable objection. When the material or substance has been rendered harmless, Work in the affected area shall resume upon written agreement of the Owner and Contractor. By Change Order, the Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable additional costs of shutdown, delay, and start-up.

§ 10.3.3 To the fullest extent permitted by law, the Owner shall indemnify and hold harmless the Contractor, Subcontractors, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses, and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work in the affected area if in fact the material or substance presents the risk of bodily injury or death as described in Section 10.3.1 and has not been rendered harmless, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), except to the extent that such damage, loss, or expense is due to the fault or negligence of the party seeking indemnity.

§ 10.3.4 The Owner shall not be responsible under this Section 10.3 for hazardous materials or substances the Contractor brings to the site unless such materials or substances are required by the Contract Documents. The Owner shall be responsible for hazardous materials or substances required by the Contract Documents, except to the extent of the Contractor's fault or negligence in the use and handling of such materials or substances.

§ 10.3.5 The Contractor shall reimburse the Owner for the cost and expense the Owner incurs (1) for remediation of hazardous materials or substances the Contractor brings to the site and negligently handles, or (2) where the Contractor fails to perform its obligations under Section 10.3.1, except to the extent that the cost and expense are due to the Owner's fault or negligence.

§ 10.3.6 If, without negligence on the part of the Contractor, the Contractor is held liable by a government agency for the cost of remediation of a hazardous material or substance solely by reason of performing Work as required by the Contract Documents, the Owner shall reimburse the Contractor for all cost and expense thereby incurred.

§ 10.4 Emergencies

In an emergency affecting safety of persons or property, the Contractor shall act, at the Contractor's discretion, to prevent threatened damage, injury, or loss. Additional compensation or extension of time claimed by the Contractor on account of an emergency shall be determined as provided in Article 15 and Article 7.

ARTICLE 11 INSURANCE AND BONDS

§ 11.1 Contractor's Insurance and Bonds

§ 11.1.1 The Contractor shall purchase and maintain insurance of the types and limits of liability, containing the

endorsements, and subject to the terms and conditions, as described in the Agreement or elsewhere in the Contract Documents. The Contractor shall purchase and maintain the required insurance from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located. The Owner, Architect, and Architect's consultants shall be named as additional insureds under the Contractor's commercial general liability policy or as otherwise described in the Contract Documents.

§ 11.1.2 The Contractor shall provide surety bonds of the types, for such penal sums, and subject to such terms and conditions as required by the Contract Documents. The Contractor shall purchase and maintain the required bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 11.1.3 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

§ 11.1.4 Notice of Cancellation or Expiration of Contractor's Required Insurance. Within three (3) business days of the date the Contractor becomes aware of an impending or actual cancellation or expiration of any insurance required by the Contract Documents, the Contractor shall provide notice to the Owner of such impending or actual cancellation or expiration. Upon receipt of notice from the Contractor, the Owner shall, unless the lapse in coverage arises from an act or omission of the Owner, have the right to stop the Work until the lapse in coverage has been cured by the procurement of replacement coverage by the Contractor. The furnishing of notice by the Contractor shall not relieve the Contractor of any contractual obligation to provide any required coverage.

§ 11.2 Owner's Insurance

§ 11.2.1 The Owner shall purchase and maintain insurance of the types and limits of liability, containing the endorsements, and subject to the terms and conditions, as described in the Agreement or elsewhere in the Contract Documents. The Owner shall purchase and maintain the required insurance from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located.

§ 11.2.2 Failure to Purchase Required Property Insurance. If the Owner fails to purchase and maintain the required property insurance, with all of the coverages and in the amounts described in the Agreement or elsewhere in the Contract Documents, the Owner shall inform the Contractor in writing prior to commencement of the Work. Upon receipt of notice from the Owner, the Contractor may delay commencement of the Work and may obtain insurance that will protect the interests of the Contractor, Subcontractors, and Sub-Subcontractors in the Work. When the failure to provide coverage has been cured or resolved, the Contract Sum and Contract Time shall be equitably adjusted. In the event the Owner fails to procure coverage, the Owner waives all rights against the Contractor, Subcontractors, and Sub-subcontractors to the extent the loss to the Owner would have been covered by the insurance to have been procured by the Owner. The cost of the insurance shall be charged to the Owner by a Change Order. If the Owner does not provide written notice, and the Contractor is damaged by the failure or neglect of the Owner to purchase or maintain the required insurance, the Owner shall reimburse the Contractor for all reasonable costs and damages attributable thereto.

§ 11.2.3 Notice of Cancellation or Expiration of Owner's Required Property Insurance. Within three (3) business days of the date the Owner becomes aware of an impending or actual cancellation or expiration of any property insurance required by the Contract Documents, the Owner shall provide notice to the Contractor of such impending or actual cancellation or expiration. Unless the lapse in coverage arises from an act or omission of the Contractor: (1) the Contractor, upon receipt of notice from the Owner, shall have the right to stop the Work until the lapse in coverage has been cured by the procurement of replacement coverage by either the Owner or the Contractor; (2) the Contract Time and Contract Sum shall be equitably adjusted; and (3) the Owner waives all rights against the Contractor, Subcontractors, and Sub-subcontractors to the extent any loss to the Owner would have been covered by the insurance had it not expired or been cancelled. If the Contractor purchases replacement coverage, the cost of the insurance shall be charged to the Owner by an appropriate Change Order. The furnishing of notice by the Owner shall not relieve the Owner of any contractual obligation to provide required insurance.

§ 11.3 Waivers of Subrogation

§ 11.3.1 The Owner and Contractor waive all rights against (1) each other and any of their subcontractors, sub-subcontractors, agents, and employees, each of the other; (2) the Architect and Architect's consultants; and (3) Separate Contractors, if any, and any of their subcontractors, sub-subcontractors, agents, and employees, for damages caused by fire, or other causes of loss, to the extent those losses are covered by property insurance required by the Agreement or other property insurance applicable to the Project, except such rights as they have to proceeds of such insurance. The

Owner or Contractor, as appropriate, shall require similar written waivers in favor of the individuals and entities identified above from the Architect, Architect's consultants, Separate Contractors, subcontractors, and sub-subcontractors. The policies of insurance purchased and maintained by each person or entity agreeing to waive claims pursuant to this section 11.3.1 shall not prohibit this waiver of subrogation. This waiver of subrogation shall be effective as to a person or entity (1) even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, (2) even though that person or entity did not pay the insurance premium directly or indirectly, or (3) whether or not the person or entity had an insurable interest in the damaged property.

§ 11.3.2 If during the Project construction period the Owner insures properties, real or personal or both, at or adjacent to the site by property insurance under policies separate from those insuring the Project, or if after final payment property insurance is to be provided on the completed Project through a policy or policies other than those insuring the Project during the construction period, to the extent permissible by such policies, the Owner waives all rights in accordance with the terms of Section 11.3.1 for damages caused by fire or other causes of loss covered by this separate property insurance.

§ 11.4 Loss of Use, Business Interruption, and Delay in Completion Insurance

The Owner, at the Owner's option, may purchase and maintain insurance that will protect the Owner against loss of use of the Owner's property, or the inability to conduct normal operations, due to fire or other causes of loss. The Owner waives all rights of action against the Contractor and Architect for loss of use of the Owner's property, due to fire or other hazards however caused.

§ 11.5 Adjustment and Settlement of Insured Loss

§ 11.5.1 A loss insured under the property insurance required by the Agreement shall be adjusted by the Owner as fiduciary and made payable to the Owner as fiduciary for the insureds, as their interests may appear, subject to requirements of any applicable mortgagee clause and of Section 11.5.2. The Owner shall pay the Architect and Contractor their just shares of insurance proceeds received by the Owner, and by appropriate agreements the Architect and Contractor shall make payments to their consultants and Subcontractors in similar manner.

§ 11.5.2 Prior to settlement of an insured loss, the Owner shall notify the Contractor of the terms of the proposed settlement as well as the proposed allocation of the insurance proceeds. The Contractor shall have 14 days from receipt of notice to object to the proposed settlement or allocation of the proceeds. If the Contractor does not object, the Owner shall settle the loss and the Contractor shall be bound by the settlement and allocation. Upon receipt, the Owner shall deposit the insurance proceeds in a separate account and make the appropriate distributions. Thereafter, if no other agreement is made or the Owner does not terminate the Contract for convenience, the Owner and Contractor shall execute a Change Order for reconstruction of the damaged or destroyed Work in the amount allocated for that purpose. If the Contractor timely objects to either the terms of the proposed settlement or the allocation of the proceeds, the Owner may proceed to settle the insured loss, and any dispute between the Owner and Contractor arising out of the settlement or allocation of the proceeds shall be resolved pursuant to Article 15. Pending resolution of any dispute, the Owner may issue a Construction Change Directive for the reconstruction of the damaged or destroyed Work.

ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

§ 12.1 Uncovering of Work

§ 12.1.1 If a portion of the Work is covered contrary to the Architect's request or to requirements specifically expressed in the Contract Documents, it must, if requested in writing by the Architect, be uncovered for the Architect's examination and be replaced at the Contractor's expense without change in the Contract Time.

§ 12.1.2 If a portion of the Work has been covered that the Architect has not specifically requested to examine prior to its being covered, the Architect may request to see such Work and it shall be uncovered by the Contractor. If such Work is in accordance with the Contract Documents, the Contractor shall be entitled to an equitable adjustment to the Contract Sum and Contract Time as may be appropriate. If such Work is not in accordance with the Contract Documents, the costs of uncovering the Work, and the cost of correction, shall be at the Contractor's expense.

§ 12.2 Correction of Work

§ 12.2.1 Before Substantial Completion

The Contractor shall promptly correct Work rejected by the Architect or failing to conform to the requirements of the Contract Documents, discovered before Substantial Completion and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Architect's services and expenses made necessary thereby, shall be at the

Contractor's expense.

§ 12.2.2 After Substantial Completion

§ 12.2.2.1 In addition to the Contractor's obligations under Section 3.5, if, within one year after the date of Substantial Completion of the Work or designated portion thereof or after the date for commencement of warranties established under Section 9.9.1, or by terms of any applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of notice from the Owner to do so, unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. During the one-year period for correction of Work, if the Owner fails to notify the Contractor and give the Contractor an opportunity to make the correction, the Owner waives the rights to require correction by the Contractor and to make a claim for breach of warranty. If the Contractor fails to correct nonconforming Work within a reasonable time during that period after receipt of notice from the Owner or Architect, the Owner may correct it in accordance with Section 2.5.

§ 12.2.2.2 The one-year period for correction of Work shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual completion of that portion of the Work.

§ 12.2.2.3 The one-year period for correction of Work shall not be extended by corrective Work performed by the Contractor pursuant to this Section 12.2.

§ 12.2.3 The Contractor shall remove from the site portions of the Work that are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.

§ 12.2.4 The Contractor shall bear the cost of correcting destroyed or damaged construction of the Owner or Separate Contractors, whether completed or partially completed, caused by the Contractor's correction or removal of Work that is not in accordance with the requirements of the Contract Documents.

§ 12.2.5 Nothing contained in this Section 12.2 shall be construed to establish a period of limitation with respect to other obligations the Contractor has under the Contract Documents. Establishment of the one-year period for correction of Work as described in Section 12.2.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

§ 12.3 Acceptance of Nonconforming Work

If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

ARTICLE 13 MISCELLANEOUS PROVISIONS

§ 13.1 Governing Law

The Contract shall be governed by the law of the place where the Project is located, excluding that jurisdiction's choice of law rules. If the parties have selected arbitration as the method of binding dispute resolution, the Federal Arbitration Act shall govern Section 15.4.

§ 13.2 Successors and Assigns

§ 13.2.1 The Owner and Contractor respectively bind themselves, their partners, successors, assigns, and legal representatives to covenants, agreements, and obligations contained in the Contract Documents. Except as provided in Section 13.2.2, neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

§ 13.2.2 The Owner may, without consent of the Contractor, assign the Contract to a lender providing construction financing for the Project, if the lender assumes the Owner's rights and obligations under the Contract Documents. The Contractor shall execute all consents reasonably required to facilitate the assignment.

§ 13.3 Rights and Remedies

§ 13.3.1 Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights, and remedies otherwise imposed or available by law.

§ 13.3.2 No action or failure to act by the Owner, Architect, or Contractor shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach thereunder, except as may be specifically agreed upon in writing.

§ 13.4 Tests and Inspections

§ 13.4.1 Tests, inspections, and approvals of portions of the Work shall be made as required by the Contract Documents and by applicable laws, statutes, ordinances, codes, rules, and regulations or lawful orders of public authorities. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections, and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections, and approvals. The Contractor shall give the Architect timely notice of when and where tests and inspections are to be made so that the Architect may be present for such procedures. The Owner shall bear costs of tests, inspections, or approvals that do not become requirements until after bids are received or negotiations concluded. The Owner shall directly arrange and pay for tests, inspections, or approvals where building codes or applicable laws or regulations so require.

§ 13.4.2 If the Architect, Owner, or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection, or approval not included under Section 13.4.1, the Architect will, upon written authorization from the Owner, instruct the Contractor to make arrangements for such additional testing, inspection, or approval, by an entity acceptable to the Owner, and the Contractor shall give timely notice to the Architect of when and where tests and inspections are to be made so that the Architect may be present for such procedures. Such costs, except as provided in Section 13.4.3, shall be at the Owner's expense.

§ 13.4.3 If procedures for testing, inspection, or approval under Sections 13.4.1 and 13.4.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure, including those of repeated procedures and compensation for the Architect's services and expenses, shall be at the Contractor's expense.

§ 13.4.4 Required certificates of testing, inspection, or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Architect.

§ 13.4.5 If the Architect is to observe tests, inspections, or approvals required by the Contract Documents, the Architect will do so promptly and, where practicable, at the normal place of testing.

§ 13.4.6 Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

§ 13.5 Interest

Payments due and unpaid under the Contract Documents shall bear interest from the date payment is due at the rate the parties agree upon in writing or, in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located.

ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

§ 14.1 Termination by the Contractor

§ 14.1.1 The Contractor may terminate the Contract if the Work is stopped for a period of 30 consecutive days through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons or entities performing portions of the Work, for any of the following reasons:

- .1 Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped;
- .2 An act of government, such as a declaration of national emergency, that requires all Work to be stopped;
- .3 Because the Architect has not issued a Certificate for Payment and has not notified the Contractor of the reason for withholding certification as provided in Section 9.4.1, or because the Owner has not made payment on a Certificate for Payment within the time stated in the Contract Documents; or
- .4 The Owner has failed to furnish to the Contractor reasonable evidence as required by Section 2.2.

§ 14.1.2 The Contractor may terminate the Contract if, through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons or entities performing portions of the Work, repeated suspensions, delays, or interruptions of the entire Work by the Owner as described in Section 14.3, constitute in the aggregate more than 100 percent of the total number of days scheduled for completion, or 120 days in any 365-day period, whichever is less.

§ 14.1.3 If one of the reasons described in Section 14.1.1 or 14.1.2 exists, the Contractor may, upon seven days' notice to the Owner and Architect, terminate the Contract and recover from the Owner payment for Work executed, as well as reasonable overhead and profit on Work not executed, and costs incurred by reason of such termination.

§ 14.1.4 If the Work is stopped for a period of 60 consecutive days through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, or their agents or employees or any other persons or entities performing portions of the Work because the Owner has repeatedly failed to fulfill the Owner's obligations under the Contract Documents with respect to matters important to the progress of the Work, the Contractor may, upon seven additional days' notice to the Owner and the Architect, terminate the Contract and recover from the Owner as provided in Section 14.1.3.

§ 14.2 Termination by the Owner for Cause

§ 14.2.1 The Owner may terminate the Contract if the Contractor

- .1 repeatedly refuses or fails to supply enough properly skilled workers or proper materials;
- .2 fails to make payment to Subcontractors or suppliers in accordance with the respective agreements between the Contractor and the Subcontractors or Suppliers;
- .3 repeatedly disregards applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of a public authority; or
- .4 otherwise is guilty of substantial breach of a provision of the Contract Documents.

§ 14.2.2 When any of the reasons described in Section 14.2.1 exist, and upon certification by the Architect that sufficient cause exists to justify such action, the Owner may, without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the Contractor's surety, if any, seven days' notice, terminate employment of the Contractor and may, subject to any prior rights of the surety:

- .1 Exclude the Contractor from the site and take possession of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor;
- .2 Accept assignment of subcontracts pursuant to Section 5.4; and
- .3 Finish the Work by whatever reasonable method the Owner may deem expedient. Upon written request of the Contractor, the Owner shall furnish to the Contractor a detailed accounting of the costs incurred by the Owner in finishing the Work.

§ 14.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished.

§ 14.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Architect's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived, such excess shall be paid to the Contractor. If such costs and damages exceed the unpaid balance, the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor or Owner, as the case may be, shall be certified by the Initial Decision Maker, upon application, and this obligation for payment shall survive termination of the Contract.

§ 14.3 Suspension by the Owner for Convenience

§ 14.3.1 The Owner may, without cause, order the Contractor in writing to suspend, delay or interrupt the Work, in whole or in part for such period of time as the Owner may determine.

§ 14.3.2 The Contract Sum and Contract Time shall be adjusted for increases in the cost and time caused by suspension, delay, or interruption under Section 14.3.1. Adjustment of the Contract Sum shall include profit. No adjustment shall be made to the extent

- .1 that performance is, was, or would have been, so suspended, delayed, or interrupted, by another cause for which the Contractor is responsible; or
- .2 that an equitable adjustment is made or denied under another provision of the Contract.

§ 14.4 Termination by the Owner for Convenience

§ 14.4.1 The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause.

§ 14.4.2 Upon receipt of notice from the Owner of such termination for the Owner's convenience, the Contractor shall

- .1 cease operations as directed by the Owner in the notice;
- .2 take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and
- .3 except for Work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.

§ 14.4.3 In case of such termination for the Owner's convenience, the Owner shall pay the Contractor for Work properly executed; costs incurred by reason of the termination, including costs attributable to termination of Subcontracts; and the termination fee, if any, set forth in the Agreement.

ARTICLE 15 CLAIMS AND DISPUTES

§ 15.1 Claims

§ 15.1.1 Definition

A Claim is a demand or assertion by one of the parties seeking, as a matter of right, payment of money, a change in the Contract Time, or other relief with respect to the terms of the Contract. The term "Claim" also includes other disputes and matters in question between the Owner and Contractor arising out of or relating to the Contract. The responsibility to substantiate Claims shall rest with the party making the Claim. This Section 15.1.1 does not require the Owner to file a Claim in order to impose liquidated damages in accordance with the Contract Documents.

§ 15.1.2 Time Limits on Claims

The Owner and Contractor shall commence all Claims and causes of action against the other and arising out of or related to the Contract, whether in contract, tort, breach of warranty or otherwise, in accordance with the requirements of the binding dispute resolution method selected in the Agreement and within the period specified by applicable law, but in any case not more than 10 years after the date of Substantial Completion of the Work. The Owner and Contractor waive all Claims and causes of action not commenced in accordance with this Section 15.1.2.

§ 15.1.3 Notice of Claims

§ 15.1.3.1 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered prior to expiration of the period for correction of the Work set forth in Section 12.2.2, shall be initiated by notice to the other party and to the Initial Decision Maker with a copy sent to the Architect, if the Architect is not serving as the Initial Decision Maker. Claims by either party under this Section 15.1.3.1 shall be initiated within 21 days after occurrence of the event giving rise to such Claim or within 21 days after the claimant first recognizes the condition giving rise to the Claim, whichever is later.

§ 15.1.3.2 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 12.2.2, shall be initiated by notice to the other party. In such event, no decision by the Initial Decision Maker is required.

§ 15.1.4 Continuing Contract Performance

§ 15.1.4.1 Pending final resolution of a Claim, except as otherwise agreed in writing or as provided in Section 9.7 and Article 14, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents.

§ 15.1.4.2 The Contract Sum and Contract Time shall be adjusted in accordance with the Initial Decision Maker's decision, subject to the right of either party to proceed in accordance with this Article 15. The Architect will issue Certificates for Payment in accordance with the decision of the Initial Decision Maker.

§ 15.1.5 Claims for Additional Cost

If the Contractor wishes to make a Claim for an increase in the Contract Sum, notice as provided in Section 15.1.3 shall be given before proceeding to execute the portion of the Work that is the subject of the Claim. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.4.

§ 15.1.6 Claims for Additional Time

§ 15.1.6.1 If the Contractor wishes to make a Claim for an increase in the Contract Time, notice as provided in Section

15.1.3 shall be given. The Contractor's Claim shall include an estimate of cost and of probable effect of delay on progress of the Work. In the case of a continuing delay, only one Claim is necessary.

§ 15.1.6.2 If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather conditions were abnormal for the period of time, could not have been reasonably anticipated, and had an adverse effect on the scheduled construction.

§ 15.1.7 Waiver of Claims for Consequential Damages

The Contractor and Owner waive Claims against each other for consequential damages arising out of or relating to this Contract. This mutual waiver includes

- .1 damages incurred by the Owner for rental expenses, for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and
- .2 damages incurred by the Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, and for loss of profit, except anticipated profit arising directly from the Work.

This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination in accordance with Article 14. Nothing contained in this Section 15.1.7 shall be deemed to preclude assessment of liquidated damages, when applicable, in accordance with the requirements of the Contract Documents.

§ 15.2 Initial Decision

§ 15.2.1 Claims, excluding those where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 12.2.2 or arising under Sections 10.3, 10.4, and 11.5, shall be referred to the Initial Decision Maker for initial decision. The Architect will serve as the Initial Decision Maker, unless otherwise indicated in the Agreement. Except for those Claims excluded by this Section 15.2.1, an initial decision shall be required as a condition precedent to mediation of any Claim. If an initial decision has not been rendered within 30 days after the Claim has been referred to the Initial Decision Maker, the party asserting the Claim may demand mediation and binding dispute resolution without a decision having been rendered. Unless the Initial Decision Maker and all affected parties agree, the Initial Decision Maker will not decide disputes between the Contractor and persons or entities other than the Owner.

§ 15.2.2 The Initial Decision Maker will review Claims and within ten days of the receipt of a Claim take one or more of the following actions: (1) request additional supporting data from the claimant or a response with supporting data from the other party, (2) reject the Claim in whole or in part, (3) approve the Claim, (4) suggest a compromise, or (5) advise the parties that the Initial Decision Maker is unable to resolve the Claim if the Initial Decision Maker lacks sufficient information to evaluate the merits of the Claim or if the Initial Decision Maker concludes that, in the Initial Decision Maker's sole discretion, it would be inappropriate for the Initial Decision Maker to resolve the Claim.

§ 15.2.3 In evaluating Claims, the Initial Decision Maker may, but shall not be obligated to, consult with or seek information from either party or from persons with special knowledge or expertise who may assist the Initial Decision Maker in rendering a decision. The Initial Decision Maker may request the Owner to authorize retention of such persons at the Owner's expense.

§ 15.2.4 If the Initial Decision Maker requests a party to provide a response to a Claim or to furnish additional supporting data, such party shall respond, within ten days after receipt of the request, and shall either (1) provide a response on the requested supporting data, (2) advise the Initial Decision Maker when the response or supporting data will be furnished, or (3) advise the Initial Decision Maker that no supporting data will be furnished. Upon receipt of the response or supporting data, if any, the Initial Decision Maker will either reject or approve the Claim in whole or in part.

§ 15.2.5 The Initial Decision Maker will render an initial decision approving or rejecting the Claim, or indicating that the Initial Decision Maker is unable to resolve the Claim. This initial decision shall (1) be in writing; (2) state the reasons therefor; and (3) notify the parties and the Architect, if the Architect is not serving as the Initial Decision Maker, of any change in the Contract Sum or Contract Time or both. The initial decision shall be final and binding on the parties but subject to mediation and, if the parties fail to resolve their dispute through mediation, to binding dispute resolution.

§ 15.2.6 Either party may file for mediation of an initial decision at any time, subject to the terms of Section 15.2.6.1.

§ 15.2.6.1 Either party may, within 30 days from the date of receipt of an initial decision, demand in writing that the other party file for mediation. If such a demand is made and the party receiving the demand fails to file for mediation within 30 days after receipt thereof, then both parties waive their rights to mediate or pursue binding dispute resolution proceedings with respect to the initial decision.

§ 15.2.7 In the event of a Claim against the Contractor, the Owner may, but is not obligated to, notify the surety, if any, of the nature and amount of the Claim. If the Claim relates to a possibility of a Contractor's default, the Owner may, but is not obligated to, notify the surety and request the surety's assistance in resolving the controversy.

§ 15.2.8 If a Claim relates to or is the subject of a mechanic's lien, the party asserting such Claim may proceed in accordance with applicable law to comply with the lien notice or filing deadlines.

§ 15.3 Mediation

§ 15.3.1 Claims, disputes, or other matters in controversy arising out of or related to the Contract, ~~except those waived as provided for in Sections 9.10.4, 9.10.5, and 15.1.7, shall be subject to mediation as a condition precedent to binding dispute resolution.~~

§ 15.3.2 The parties shall endeavor to resolve their Claims by mediation ~~which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Mediation Procedures in effect on the date of the Agreement. A request for mediation shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the mediation. The request may be made concurrently with the filing of binding dispute resolution proceedings but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If an arbitration is stayed pursuant to this Section 15.3.2, the parties may nonetheless proceed to the selection of the arbitrator(s) and agree upon a schedule for later proceedings.~~

§ 15.3.3 Either party may, within 30 days from the ~~date that mediation has been concluded without resolution of the dispute or 60 days after mediation has been demanded without resolution of the dispute,~~ demand in writing that the other party file for binding dispute resolution. ~~If such a demand is made and the party receiving the demand fails to file for binding dispute resolution within 60 days after receipt thereof, then both parties waive their rights to binding dispute resolution proceedings with respect to the initial decision.~~

§ 15.3.4 The parties shall share the mediator's fee and ~~any~~ filing fees equally. The mediation shall be held in the place where the Project is located, unless ~~another location is mutually agreed upon.~~ Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.

§ 15.4 Arbitration

§ 15.4.1 If the parties have selected arbitration as the method for binding dispute resolution in the Agreement, any Claim subject to, but ~~not resolved by,~~ mediation shall be subject to arbitration which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules in effect on the date of the Agreement. The Arbitration shall be conducted in the place where the Project is located, unless ~~another location is mutually agreed upon.~~ A demand for arbitration shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the arbitration. The party filing a notice of demand for arbitration must assert in the demand all Claims then known to that party on which arbitration is permitted to be demanded.

§ 15.4.1.1 A demand for arbitration shall be made no earlier than concurrently with the filing of a request for mediation, but in no event shall it be made after the date when the institution of legal or equitable proceedings based on the Claim would be barred by the applicable statute of limitations. For statute of limitations purposes, receipt of a written demand for arbitration by the person or entity administering the arbitration shall constitute the institution of legal or equitable proceedings based on the Claim.

§ 15.4.2 The award rendered by the arbitrator or arbitrators shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.

§ 15.4.3 The foregoing agreement to arbitrate and other agreements to arbitrate with an additional person or entity duly

consented to by parties to the Agreement, shall be specifically enforceable under applicable law in any court having jurisdiction thereof.

§ 15.4.4 Consolidation or Joinder

§ 15.4.4.1 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, either party may consolidate an arbitration conducted under this Agreement with any other arbitration to which it is a party provided that (1) the arbitration agreement governing the other arbitration permits consolidation, (2) the arbitrations to be consolidated substantially involve common questions of law or fact, and (3) the arbitrations employ materially similar procedural rules and methods for selecting arbitrator(s).

§ 15.4.4.2 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, either party may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is required if complete relief is to be accorded in arbitration, provided that the party sought to be joined consents in writing to such joinder. Consent to arbitration involving an additional person or entity shall not constitute consent to arbitration of any claim, dispute or other matter in question not described in the written consent.

§ 15.4.4.3 The Owner and Contractor grant to any person or entity made a party to an arbitration conducted under this Section 15.4, whether by joinder or consolidation, the same rights of joinder and consolidation as those of the Owner and Contractor under this Agreement.

Sample

008500 SCOPE OF WORK

Restoration of the 1913 Leon County Jail Electrical Restoration Centerville, Texas

The contract drawings and requirements are included in the following project manual entitled “Restoration of the 1913 Leon County Jail, Centerville, Texas” and the following drawings:

A1.1	General Information
A1.2	Site Plan
A2.0	Floor Plans
A4.0	Exterior Elevations
ED200	Power Demo Plan
E200	Power Plan
E201	Electrical Site Plan
E300	Riser Diagram
E301	Panel Schedules
E400	Electrical Specifications

End of section 008500

SECTION 010000 – GENERAL REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Summary and Scope of Work.
 - 2. Work covered by Contract Documents.
 - 3. Access to site.

1.3 PROJECT INFORMATION

- A. Project Identification: Restoration of the 1913 Leon County Jail, Centerville, Texas.
 - 1. Project Location: 130 East St. Mary Street, Centerville, Texas 75833.
- B. Owner: Leon County, Texas.
 - 1. Owner's Representative: Honorable Byron Ryder, County Judge
- C. Architect: Mark A. Thacker, AIA ~ Commercial & Preservation Architecture
 - P.O. Box 2612, Lindale, Texas 75771
 - (903) 595-2656
 - mark@markathacker.com

1.4 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of the Project is defined by the Contract Documents and consists of the following:
 - 1. Masonry restoration on the West Elevation is included in the Base Bid.
 - 2. Additional masonry restoration is to be included in bid as alternates.

B. Type of Contract:

1. Project will be constructed under one prime contract.

1.5 ACCESS TO SITE

- A. General: Contractor shall have full use of building to be included in the Work on Project site for construction operations during the construction period. All other existing buildings on site will be occupied and shall remain open during demolition and selected demolition construction operations. Refer to Section 024119 – Selective Structure Demolition for requirements.

1.6 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with restrictions on construction operations.
1. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.
- B. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:
1. Notify Owner not less than seventy-two hours in advance of proposed utility interruptions.
 2. Obtain Owner's written permission before proceeding with utility interruptions.
- C. Controlled Substances: Use of tobacco products, alcohol and other controlled substances on Project site is not permitted.

1.7 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA) and Architectural Barriers Act (ABA) Accessibility Guidelines for Buildings and Facilities" and Texas Accessibility Standards.
- B. All Work in this Project shall comply with applicable Codes, Standards and Requirements of Federal, State and Local authorities having jurisdiction.
- C. Comply with the International Building Code as adopted by the City of Centerville, Texas.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 011000

SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes:
 - 1. Project information.
 - 2. Work covered by Contract Documents.
 - 3. Future work.
 - 5. Access to site.
 - 6. Coordination with occupants.
 - 7. Work restrictions.
- B. Related Section:
 - 1. Division 01 Section "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

1.3 PROJECT INFORMATION

- A. Project Identification: Restoration of the 1913 Leon County Jail, Centerville, Texas.
 - 1. Project Location: 130 East St. Mary Street, Centerville, Texas 75833.
- B. Owner: Leon County, Texas.
 - 1. Owner's Representative: Honorable Byron Ryder, County Judge.
- C. Architect: Mark A. Thacker, AIA ~ Commercial & Preservation Architecture
P.O. Box 2612, Lindale, Texas 75771
(903) 595-2656 phone
mark@markathacker.com

1.4 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of the Project is defined by the Contract Documents and consists of the following:
 - 1. Selective demolition.
 - 2. Electrical modifications and service relocation.
 - 3. Masonry restoration.

4. Wood door restoration.

B. Type of Contract

1. Project will be constructed under one prime contract.

1.5 ACCESS TO SITE

- A. General: Contractor shall have limited use of Project site for construction operations as indicated on Drawings by the Contract limits and as indicated by requirements of this Section.
- B. Use of Site: Limit use of Project site to work in areas indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
- C. Condition of Existing Building: Maintain portions of existing building affected by construction operations in a weathertight condition throughout construction period. Repair damage caused by construction operations.

1.6 COORDINATION WITH OCCUPANTS

- A. Owner Occupancy: Owner will occupy the site and existing adjacent buildings during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits unless otherwise indicated.
 1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and approval of authorities having jurisdiction.
 2. Notify the Construction Manager and Owner not less than 72 (seventy-two) hours in advance of activities that will affect Owner's operations.

1.7 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with restrictions on construction operations.
 1. Comply with limitations on use of public streets and other requirements of authorities having jurisdiction.
- B. On-Site Work Hours: Limit work in the existing building to normal business working hours of 8:00 AM to 5:00 PM, Monday through Friday, except as otherwise indicated.
 1. Notify Owner if any activities are to take place other than normal business hours.
- C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:
 1. Notify Owner not less than three (3) days in advance of proposed utility interruptions.
 2. Obtain Owner's written permission before proceeding with utility interruptions.
- D. Noise, Vibration, and Odors: Coordinate operations that may result in high levels of noise and vibration, odors, or other disruption to Owner occupancy with Owner.

1. Notify Owner not less than three (3) days in advance of proposed disruptive operations.
 2. Obtain Owner's written permission before proceeding with disruptive operations.
- E. Nonsmoking Building: Smoking is not permitted within the building or within 25 feet of entrances, operable windows, or outdoor air intakes.
- F. Controlled Substances: Use of tobacco products, alcohol and other controlled substances is not permitted.

1.8 MISCELLANEOUS PROVISIONS

- A. No other work is planned in conjunction with this project.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 011000

SECTION 012100 - ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements governing allowances.
 - 1. Certain items are specified in the Contract Documents by Allowances. Allowances have been established in lieu of additional requirements and to defer selection of actual materials and equipment to a later date when direction will be provided to the Contractor. If necessary, additional requirements will be issued by Change Order.
- B. Types of allowances include the following:
 - 1. Lump-sum allowances.
 - 2. Unit-cost allowances.
 - 3. Quantity allowances.
 - 4. Contingency allowances.
 - 5. Testing and inspecting allowances.
- C. Related Sections:
 - 1. Divisions 02 through 32 Sections for items of Work covered by allowances.

1.3 SELECTION AND PURCHASE

- A. At the earliest practical date after award of the Contract, advise Architect of the date when final selection and purchase of each product or system described by an allowance must be completed to avoid delaying the Work.
- B. At Architect's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.
- C. Purchase products and systems selected by Architect from the designated supplier.

1.4 SUBMITTALS

- A. Submit proposals for purchase of products or systems included in allowances, in the form specified for Change Orders.
- B. Cost proposal submitted for consideration shall contain detailed cost breakdowns from the subcontractor including, but not limited to the following: materials, labor, quantities, unit cost and supervision. Lump sum cost proposals from the contractor will be rejected.

- C. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.
- D. Submit time sheets and other documentation to show labor time and cost for installation of allowance items that include installation as part of the allowance.
- E. Submit proposals for purchases. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.5 COORDINATION

- A. Coordinate allowance items with other portions of the Work. Furnish templates as required to coordinate installation.

1.6 ALLOWANCES

- A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner or selected by Architect under allowance and shall include freight, and delivery to Project site.
- B. Unless otherwise indicated, Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials selected by Architect under allowance shall be included as part of the Contract Sum and not part of the allowance.
- C. Unused Materials: Return unused materials purchased under an allowance to manufacturer or supplier for credit to Owner, after installation has been completed and accepted.
 - 1. If requested by Architect, retain and prepare unused material for storage by Owner. Deliver unused material to Owner's storage space as directed.

1.7 CONTINGENCY ALLOWANCES

- A. Use the contingency allowance only as directed by Architect for Owner's purposes and only by Change Orders that indicate amounts to be charged to the allowance.
- B. Contractor's overhead, profit, and related costs for products and equipment ordered by Owner under the contingency allowance are included in the allowance and are not part of the Contract Sum. These costs include delivery, installation, insurance, equipment rental, and similar costs.
- C. Change Orders authorizing use of funds from the contingency allowance will include Contractor's related costs and reasonable overhead and profit margins.
- D. At Project closeout, credit unused amounts remaining in the contingency allowance to Owner by Change Order.

1.8 ADJUSTMENT OF ALLOWANCES

- A. Allowance Adjustment: To adjust allowance amounts, prepare a Change Order proposal based on the difference between purchase amount and the allowance, multiplied by final measurement of work-in-place where applicable. If applicable, include reasonable allowances for cutting losses, tolerances, mixing wastes, normal product imperfections, and similar margins.
 - 1. Include installation costs in purchase amount only where indicated as part of the allowance.

2. If requested, prepare explanation and documentation to substantiate distribution of overhead costs and other margins claimed.
 3. Submit substantiation of a change in scope of work, if any, claimed in Change Orders related to unit-cost allowances.
 4. Owner reserves the right to establish the quantity of work-in-place by independent quantity survey, measure, or count.
- B. Submit claims for increased costs because of a change in scope or nature of the allowance described in the Contract Documents, whether for the purchase order amount or Contractor's handling, labor, installation, overhead, and profit.
1. Do not include Contractor's or subcontractor's indirect expense in the Change Order cost amount unless it is clearly shown that the nature or extent of work has changed from what could have been foreseen from information in the Contract Documents.
 2. No change to Contractor's indirect expense is permitted for selection of higher- or lower-priced materials or systems of the same scope and nature as originally indicated.
- C. Prior to zeroing allowance provide final invoice from supplier, installer or subcontractor for allowance.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

3.2 PREPARATION

- A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.3 SCHEDULE OF ALLOWANCES

- A. Allowance No. 1: Contingency Allowance: Include a contingency allowance of \$ **10,000.00** for use according to Owner's instructions.

END OF SECTION 012100

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.
 - 3. For each Alternate, only include work required of that specific alternate. Do not include work required of the Base Bid or any other Alternate.

1.4 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Scope (refer to specification section 008500 Scope of Work):

1. Base Bid: The general scope of the Work provides for electrical modifications and masonry restoration of the south and west elevation.
2. Alternate No. 1: ADD for restoration of front door.

END OF SECTION 012300

SECTION 013100 - PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
 - 1. General project coordination procedures.
 - 2. Administrative and supervisory personnel.
 - 3. Coordination drawings.
 - 4. Requests for Information (RFIs).
 - 5. Project meetings.
- B. Related Sections:
 - 1. Division 01 Section "Closeout Procedures" for coordinating closeout of the Contract.

1.3 COORDINATION

- A. Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations, included in different Sections, that depend on each other for proper installation, connection, and operation.
 - 1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
 - 2. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair.
 - 3. Make adequate provisions to accommodate items scheduled for later installation.
- B. Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.
 - 1. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required.
- C. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
 - 1. Preparation of Contractor's construction schedule.
 - 2. Preparation of the schedule of values.
 - 3. Installation and removal of temporary facilities and controls.

4. Delivery and processing of submittals.
5. Preinstallation conferences.
6. Startup and adjustment of systems.
7. Project closeout activities.

D. Conservation: Coordinate construction activities to ensure that operations are carried out with consideration given to conservation of energy, water, and materials. Coordinate use of temporary utilities to minimize waste.

1. Salvage materials and equipment involved in performance of, but not actually incorporated into, the Work. Refer to other Sections for disposition of salvaged materials that are designated as Owner's property.

1.5 COORDINATION DRAWINGS

A. Coordination Drawings, General: Prepare coordination drawings in accordance with requirements in individual Sections, where installation is not completely shown on Shop Drawings, where limited space availability necessitates coordination, or if coordination is required to facilitate integration of products and materials fabricated or installed by more than one entity.

1.6 KEY PERSONNEL

A. Key Personnel Names: Within 15 days of starting construction operations, submit a list of key personnel assignments, including superintendent and other personnel in attendance at Project site. Identify individuals and their duties and responsibilities; list addresses and telephone numbers, including home, office, and cellular telephone numbers and email addresses. Provide names, addresses, and telephone numbers of individuals assigned as standbys in the absence of individuals assigned to Project.

1. Post copies of list in temporary field office.

1.7 REQUESTS FOR INFORMATION (RFIs)

A. General: Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit, an RFI in the form specified.

1. Architect will return RFIs submitted to Architect by other entities controlled by Contractor with no response.
2. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.

B. RFI Forms: AIA Document G716.

C. Architect's Action: Architect will review each RFI, determine action required, and respond. Allow seven working days for Architect's response for each RFI. RFIs received by Architect after 1:00 p.m. will be considered as received the following working day.

1. The following RFIs will be returned without action:
 - a. Requests for approval of submittals.
 - b. Requests for approval of substitutions.
 - c. Requests for coordination information already indicated in the Contract Documents.
 - d. Requests for adjustments in the Contract Time or the Contract Sum.

- e. Requests for interpretation of Architect's actions on submittals.
 - f. Incomplete RFIs or inaccurately prepared RFIs.
- 2. Architect's action may include a request for additional information, in which case Architect's time for response will date from time of receipt of additional information.
- 3. Architect's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal.
 - a. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Architect, through the Construction Manager, in writing within 10 days of receipt of the RFI response.
- E. On receipt of Architect's action, immediately distribute the RFI response to affected parties. Review response and notify Architect, within seven days if Contractor disagrees with response.
- F. The Contractor may utilize an electronic system to post submittals and allow Architect access to upload responses.

1.8 PROJECT MEETINGS

- A. General: Schedule and conduct meetings and conferences at Project site, unless otherwise indicated.
 - 1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner and Architect of scheduled meeting dates and times.
 - 2. Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees.
 - 3. Minutes: The contractor is responsible for conducting meetings will record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner and Architect, within three days of the meeting.
- B. Preconstruction Conference: Architect will schedule and conduct a preconstruction conference before starting construction, at a time convenient to Owner, Architect and Contractor after execution of the Agreement.
 - 1. Attendees: Authorized representatives of Owner, Architect, and their consultants; Contractor principal and superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. Participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
 - 2. Agenda: Discuss items of significance that could affect progress, including the following:
 - a. Tentative construction schedule.
 - b. Phasing.
 - c. Critical work sequencing and long-lead items.
 - d. Designation of key personnel and their duties.
 - e. Lines of communications.
 - f. Procedures for processing field decisions and Change Orders.
 - g. Procedures for RFIs.
 - h. Procedures for testing and inspecting.
 - i. Procedures for processing Applications for Payment.
 - j. Distribution of the Contract Documents.
 - k. Submittal procedures.
 - l. Preparation of record documents.
 - m. Use of the premises.
 - n. Work restrictions.
 - o. Working hours.
 - p. Owner's occupancy requirements.

- q. Responsibility for temporary facilities and controls.
- r. Procedures for disruptions and shutdowns.
- s. Construction waste management and recycling.
- t. Parking availability.
- u. Office, work, and storage areas.
- v. Equipment deliveries and priorities.
- w. First aid.
- x. Security.
- y. Progress cleaning.
- z. Texas Historical Commission involvement.

- 4. Minutes: Entity responsible for conducting meeting will record and distribute meeting minutes.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 013100

SECTION 013233 - PHOTOGRAPHIC DOCUMENTATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for the following:
 - 1. Preconstruction photographs.
 - 2. Preexisting conditions documentation.
- B. Related Sections:
 - 1. Division 02 Section "Selective Structure Demolition" for photographic documentation before selective demolition operations commence.

1.3 INFORMATIONAL SUBMITTALS

- A. Key Plan: Submit key plan of Project site and building with notation of vantage points marked for location and direction of each photograph. Indicate elevation or story of construction. Include same information as corresponding photographic documentation.
- B. Digital Photographs: Submit image files within three (3) days of taking photographs.
 - 1. Digital Camera: Minimum sensor resolution of eight (8) megapixels.
 - 2. Format: Minimum 1600 by 1200 pixels, 400 dpi minimum, in unaltered original files, with same aspect ratio as the sensor, uncropped, date and time stamped, in folder named by date of photograph, accompanied by key plan file.
 - 3. Identification: Provide the following information with each image description in file metadata tag:
 - a. Name of Project.
 - b. Name and contact information for photographer.
 - c. Name of Architect.
 - d. Name of Contractor.
 - e. Date photograph was taken.
 - f. Description of vantage point, indicating location, direction (by compass point), and elevation or story of construction.
 - g. Unique sequential identifier keyed to accompanying key plan.
- C. Construction Photographs: Submit two (2) prints or compact disc (CD) of photographic views within seven (7) days of taking photographs. Email transmission of photographs is acceptable.
 - 1. Format: 8-by-10-inch smooth-surface matte prints on single-weight commercial-grade photographic paper, punched for standard three-ring binder. A compact disc (CD) containing the digital images is acceptable.

PART 2 - PRODUCTS

2.1 PHOTOGRAPHIC MEDIA

- A. Digital Images: Provide images in JPG format, produced by a digital camera with minimum sensor size of eight (8) megapixels, and at an image resolution of not less than 1600 by 1200 pixels and 400 dpi.

PART 3 - EXECUTION

3.1 CONSTRUCTION PHOTOGRAPHS

- A. Photographer: Engage a qualified photographer to take construction photographs or other personnel provided the work is clear and adequately shows before, during, and after conditions.
- B. General: Take photographs using the maximum range of depth of field, and that are in focus, to clearly show the Work. Photographs with blurry or out-of-focus areas will not be accepted.
 - 1. Maintain key plan with each set of construction photographs that identifies each photographic location.
- C. Digital Images: Submit digital images exactly as originally recorded in the digital camera, without alteration, manipulation, editing, or modifications using image-editing software.
 - 1. Date and Time: Include date and time in file name for each image.
- D. Preconstruction Photographs: Before commencement of selective demolition, and building demolition connected to building to remain, take photographs of Project site and surrounding properties, including existing items to remain during construction, from different vantage points, as directed by Architect.
 - 1. Flag construction limits before taking construction photographs.
 - 2. Take twenty (20) photographs of existing buildings and site either on or adjoining property to accurately record physical conditions at start of construction.

END OF SECTION 013233

SECTION 013300 – SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other miscellaneous submittals.

1.3 DEFINITIONS

- A. Action Submittals: Written and graphic information that requires Architect's (and THC's as required) responsive action.
- B. Informational Submittals: Written information that does not require Architect's (and THC's as required) approval. Submittals may be rejected for not complying with requirements.

1.4 SUBMITTAL PROCEDURES

- A. General: Electronic copies of CAD Drawings of the Contract Drawings may be provided by Architect, upon written request, for Contractor's use in preparing submittals.
 - 1. Architect may furnish Contractor one set of digital data drawing files of the Contract Drawings for use in preparing Shop Drawings and Project record drawings.
 - a. Architect makes no representations as to the accuracy or completeness of digital data drawing files as they relate to the Contract Drawings.
 - b. Digital Drawing Software Program: The Contract Drawings are available in PDF format.
 - 2. CAD Drawing Files:
 - a. Prior to release of any CAD Drawings, Contractor shall execute a data licensing agreement, available from the Architect.
 - b. The Architect will provide the Contractor one electronic copy of selected drawings in AutoCADD format.
- B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
 - 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 - 2. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
 - a. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.

- C. Processing Time: Allow enough time for submittal review, including time for resubmittals, as follows: (Time for review shall commence on Architect's receipt of submittal.)
1. Initial Review: Allow **15** days for initial review of each submittal. Allow additional time if processing must be delayed to permit coordination with subsequent submittals. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
 2. Concurrent Review: Where concurrent review of submittals by Architect's consultants, THC, or other parties is required, allow **21** days for initial review of each submittal. Submit to Architect, who shall transmit to appropriate parties. Refer to the individual Specification Sections for requirements for submittals.
 3. If intermediate submittal is necessary, process it in same manner as initial submittal.
 4. Allow **15** days for processing each resubmittal.
 5. No extension of the Contract Time will be authorized because of contractor's or supplier's failure to transmit submittals enough in advance of the Work to permit processing.
- D. Identification: Place a permanent label or title block on each submittal for identification.
1. Indicate name of firm or entity that prepared each submittal on label or title block.
 2. Provide a space approximately 4 by 5 inches on label or beside title block to record Contractor's review and approval markings and action taken by Architect/THC.
 3. Include the following information on label for processing and recording action taken:
 - a. Project name.
 - b. Date.
 - c. Name and address of Architect.
 - d. Name and address of Contractor.
 - e. Name of manufacturer.
 - f. Number and title of appropriate Specification Section.
 - g. Other necessary identification.
 4. Highlight, encircle or otherwise clearly identify the item or assembly being submitted on all sheets or samples of the submittal.
- E. Deviations: Highlight, encircle, or otherwise identify deviations from the Contract Documents on submittals.
- F. Transmittal: Package each submittal individually and appropriately for transmittal and handling. Transmit each submittal using a transmittal form.
1. On an attached separate sheet, prepared on Contractor's letterhead, record relevant information, requests for data, revisions other than those requested by Architect on previous submittals, and deviations from requirements of the Contract Documents, including minor variations and limitations. Include the same label information as the related submittal.
 2. Include Contractor's certification stating that information submitted complies with requirements of the Contract Documents.
 3. Transmittal Form: Use AIA Document G810 or, if approved, Contractor's Standard Form.
- G. Required Number of Copies: For each required submittal, six (6) paper copies shall be submitted. For each resubmittal, if required, six copies must be submitted.
1. Submit specified number of copies to Architect. He will transmit them to the proper concurrent reviewing parties.
 2. A minimum of four submittals will be returned by the Architect. If more copies than four are required by the contractor or supplier, increase the number of copies submitted.

- H. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.
- I. Use for Construction: Use only final submittals with mark indicating action taken by Architect in connection with construction.

PART 2 - PRODUCTS

2.1 ACTION SUBMITTALS

- A. General: Prepare and submit Action Submittals required by individual Specification Sections.
 - 1. Number of Copies: Submit six (6) physical copies of each submittal, unless otherwise indicated. Architect will return four copies, unless THC requires a copy; in such cases, three copies will be returned. Mark and retain one returned copy as a Project Record Document. If more are required to be used for construction, increase number submitted.
- B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
 - 1. If information must be specially prepared for submittal because standard printed data are not suitable for use, submit as Shop Drawings, not as Product Data.
 - 2. Mark each copy of each submittal to show which products and options are applicable.
 - 3. Include the following information, as applicable:
 - a. Manufacturer's written recommendations.
 - b. Manufacturer's product specifications.
 - c. Standard available color charts.
 - d. Standard product operating and maintenance manuals.
- C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data. Submit six (6) physical Copies of Shop Drawings to Architect for review. Architect will transmit copies to appropriate parties for review. Four copies will be returned unless THC requires a copy; in such cases, three copies will be returned. Mark and retain one copy as a Project Record Document. Increase number submitted if more are required to be returned.
 - 1. Preparation: Include the following information, as applicable:
 - a. Dimensions.
 - b. Identification of products.
 - c. Fabrication and installation drawings.
 - d. Roughing-in and setting diagrams.
 - e. Compliance with specified standards.
 - f. Notation of dimensions established by field measurements.
 - 2. Wiring Diagrams: Differentiate between manufacturer-installed and field-installed wiring, if any wiring is required..
 - 3. Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches but no larger than 24 by 36 inches.
- D. Coordination Drawings: Comply with requirements in Division 1 Section "Project Management and Coordination".

E. Samples: Prepare physical units of materials or products, including the following:

1. Comply with requirements in Division 1 Section "Quality Requirements" for mockups.
2. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns **available**. Contractor shall verify availability in writing from manufacturer that **all colors, patterns and textures represented on color selection board are in fact available, or marked clearly as unavailable**. Contractor shall also verify in writing any anticipated discontinuations of any selections submitted or any "Special Order" manufacturer's restrictions on selections relating to color, pattern or texture.
 - a. Number of Samples: Submit one (1) full set of **available** choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Architect will retain submittal with options selected.
3. Preparation: Mount, display, or package Samples in manner specified to facilitate review of qualities indicated. Prepare Samples to match Architect's sample where so indicated. Attach label on unexposed side that includes the following:
 - a. Generic description of Sample.
 - b. Product name or name of manufacturer.
 - c. Sample source.
4. Additional Information: On an attached separate sheet, prepared on Contractor's letterhead, provide the following:
 - a. Size limitations.
 - b. Compliance with recognized standards.
 - c. Availability.
 - d. Delivery time.
5. Submit Samples for review of kind, color, pattern, and texture for a final check of these characteristics with other elements and for a comparison of these characteristics between final submittal and actual component as delivered and installed.
 - a. If variation in color, pattern, texture, or other characteristic is inherent in the product represented by a Sample, submit at least four sets of paired units that show approximate limits of the variations.
 - b. Refer to individual Specification Sections for requirements for Samples that illustrate workmanship, fabrication techniques, details of assembly, connections, operation, and similar construction characteristics.
6. Number of Samples for Initial Selection: Submit two full sets of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Architect will return one submittal with options selected. See individual sections for specific number of samples required.
7. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
 - a. Samples not incorporated into the Work, or otherwise designated as THC's property, are the property of Contractor.

F. Application for Payment: Comply with requirements in General Conditions.

- G. Schedule of Values: Comply with requirements in General Conditions. Submit within 14 calendar days of notice to proceed.
- H. Subcontract List: Prepare a written summary identifying individuals or firms proposed for each portion of the Work, including those who are to furnish products or equipment fabricated to a special design. Include the following information in tabular form:
 - 1. Name, address, and telephone number of entity performing subcontract or supplying products.
 - 2. Number and title of related Specification Section(s) covered by subcontract.
 - 3. Submit within 14 calendar days of notice to proceed.

2.2 INFORMATIONAL SUBMITTALS

- A. General: Prepare and submit Informational Submittals required by other Specification Sections.
 - 1. Number of Copies: Transmit six (6) physical copies of each submittal.
 - 2. Certificates and Certifications: Provide a notarized statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.
 - 3. Test and Inspection Reports: Comply with requirements in Division 1 Section "Quality Requirements."
- B. Field Test Reports: Prepare reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements.
- C. Maintenance Data: Prepare written and graphic instructions and procedures for operation and normal maintenance of products and equipment. Comply with requirements in Division 1 Section "Closeout Procedures."
- D. Manufacturer's Instructions: Prepare written or published information that documents manufacturer's recommendations, guidelines, and procedures for installing or operating a product or equipment. Include name of product and name, address, and telephone number of manufacturer. Include the following, as applicable:
 - 1. Preparation of substrates.
 - 2. Required substrate tolerances.
 - 3. Sequence of installation or erection.
 - 4. Required installation tolerances.
 - 5. Required adjustments.
 - 6. Recommendations for cleaning and protection.

PART 3 - EXECUTION

3.1 CONTRACTOR'S REVIEW

- A. Review each submittal and check for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.
- B. Approval Stamp: Stamp each physical submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

3.2 ARCHITECT'S ACTION

- A. General: Architect will not review submittals that do not bear Contractor's approval stamp and will return them without action.
- B. Action Submittals: Architect (and THC as required) will review each submittal, make marks to indicate corrections or modifications required, and return it. Architect (and THC as required) will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action taken.
- C. Informational Submittals: Architect (and THC as required) will review each submittal and will not return it, or will reject and return remaining copies, not retained as record copies, if it does not comply with requirements.

END OF SECTION 013000

SECTION 013560 – RESTORATION PROJECT PROCEDURES

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Other Division 01 Specifications Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Definitions.
 - 2. Historic significance.
 - 3. Restoration procedures.
 - 4. Historic artifacts.
 - 5. Alterations.
 - 6. Hazardous material procedures.

1.2 DEFINITIONS

- A. Match Existing: Provide new materials to match the existing, in-place material in all aspects as closely as possible. Existing materials are those which are visible in whole or in part in the building.
- B. Match Original: Provide new materials to match the original materials in all aspects as closely as possible.
Original materials are those which were originally installed in the building at the time of its completion, prior to previous alterations, and which may predate existing materials.
- C. Preservation: The act or process of applying measures necessary to sustain the existing form, integrity, and materials of a historic property.
- D. Reconstruction: The act or process of reproducing, by means of new construction, the form, features, and detailing of a non-surviving building, structure, or object for the purpose of replicating its appearance at a specific period of time and in its historic location.
- E. Restoration: The act or process of accurately depicting the form, feature, and character as it appeared at a particular time by means of the removal of features from other periods in its history and reconstruction of missing features from the restoration period.

1.3 QUALITY ASSURANCE

- A. Historic Significance:
 - 1. The existing building is listed in the National Register of Historic Places.
 - 2. Due to its historical significance, special procedures and precautions must be used in selective demolition and restoration.
 - 3. The building is to be restored to its appearance in 1913 unless indicated otherwise.

B. Texas Historical Commission (THC):

1. THC is providing partial funding for this project and will review and have authority over restoration work as applicable.
2. THC's contact for this project is:

Texas Historical Commission, Division of Architecture
(physical address) 108 W. 16th Street, Second Floor
Austin, TX 78701
(512) 463-6094

C. Restoration Procedures:

1. Preserve existing materials, finishes and profiles.
2. Blend new and existing work to provide smooth transitions and uniform appearance.
3. Cease work, notify Contractor, Architect and Owner and await instructions if materials or conditions encountered at the site are not as indicated by the Contract Documents or if structure is in danger of movement or collapse. Continue work in other areas to avoid project delay unless necessary.

D. Historic Artifacts: If artifacts of a historic nature are encountered during the Work:

1. Cease work in the affected area immediately. Continue work in other areas to avoid project delay.
2. Protect artifacts from damage.
3. Notify Contractor, Architect and Owner and await instructions.
4. Salvage or dispose of artifacts as directed by THC.

PART 2 – PRODUCTS

2.1 MATERIALS

A. New Materials:

1. Provide new materials to match existing adjacent materials or original materials for closing of openings, repairs, and reconstructions where suitable salvaged materials do not exist, are of insufficient quantity, or where reuse is not permitted.
2. Retain samples of existing and original materials on site for comparison purposes.
3. Match existing materials in material, type, size, quality, color, finish and other attributes.

B. Reused Materials:

1. Clean and prepare salvaged materials for reuse.
2. Do not use materials with objectionable chips, cracks, splits, dents, scratches or other defects.
3. Repair operable items to function properly.

PART 3 – EXECUTION

3.1 PREPARATION

- A. Test materials to be used in repairs for compatibility with existing materials; do not use incompatible materials.

- B. Cut, move, or remove items to provide access for alterations and restoration work. Replace and restore upon completion.
- C. Protect existing materials and surfaces from damage by construction operations.

3.2 ALTERATIONS

- A. Coordinate alterations and renovations to expedite project completion.
- B. Minimize damage to existing materials and surfaces; provide means for restoring products and finishes to their original or specified new condition.
- C. Remove unsuitable materials not marked for salvage.
- D. Remove debris and abandoned items from areas of work and from concealed spaces.
- E. Refinish visible surfaces to specified condition, with neat transition to adjacent surfaces.
- F. Install products and finish surfaces as specified in individual sections, or where no specification section exists, to match existing original.
- G. Finish patches to provide uniform color and texture over entire surface, with repairs not discernible from normal viewing distance, if not specifically specified. If finish cannot be matched, refinish entire surface to nearest intersections.
- H. Rework finished surfaces to smooth plane, without breaks, steps or bulkheads:
 - 1. Where new work abutts or aligns with existing, provide smooth and even transition.
 - 2. Where a change in plane of 1/4 inch or more occurs, submit recommendation to Construction Manager and Architect for transition.
- I. Where alterations expose mechanical and electrical components which were previously concealed, rework to be concealed in completed work.

END OF SECTION 013560

SECTION 013591 - HISTORIC TREATMENT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes general protection and treatment procedures for designated historic spaces, areas, rooms, and surfaces in the Project and the following specific work:
 - 1. Historic removal and dismantling.
- B. Related Sections:
 - 1. Division 02 Section "Selective Structure Demolition" for portions of buildings to be removed.
 - 2. Division 04 Sections for specific requirements for cleaning and repairing masonry.

1.3 DEFINITIONS

- A. Existing to Remain: Existing items that are not to be removed or dismantled.
- B. Match: To blend with adjacent construction and manifest no apparent difference in material type, species, cut, form, detail, color, grain, texture, or finish; as approved by the Architect.
- C. Remove: Specifically for historic spaces, areas, rooms, and surfaces, the term means to detach an item from existing construction to the limits indicated, using hand tools and hand-operated power equipment, and legally dispose of it off-site, unless indicated to be salvaged or reinstalled.
- D. Salvage: To protect removed or dismantled items and deliver them to Owner ready for reuse.

1.4 MATERIALS OWNERSHIP

- A. Historic items, relics, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, exterior stone masonry, antiques, and other items of interest or value to Owner that may be encountered during removal and dismantling work remain Owner's property. Carefully dismantle and salvage each item or object.
- B. Coordinate with Architect and The Texas Historical Commission, who will establish special procedures for dismantling and salvage.

1.5 SUBMITTALS

- A. Preconstruction Documentation: Show preexisting conditions of adjoining construction and site improvements, including finish surfaces, that might be misconstrued as damage caused by historic treatment operations.

- B. Inventory of Salvaged Items: After removal or dismantling work is complete, submit a list of items that have been salvaged.

1.6 QUALITY ASSURANCE

- A. Contractor Qualifications: An experienced firm regularly engaged in historic treatments similar in nature, materials, design, and extent to this work as specified in each section, and that has completed a minimum of five (5) recent projects with a record of successful in-service performance that demonstrate the firm's qualifications to perform this work.
 - 1. Field Supervisor Qualifications: Full-time supervisors experienced in historic treatment work similar in nature, material, design, and extent to that indicated for this Project. Supervisors shall be on Project site during times that historic treatment work is in progress. **Supervisors shall not be changed during Project except for causes beyond the control of the specialist firm.**
 - 2. Worker Qualification: Persons who are experienced in historic treatment work of types they will be performing.
- B. Fire-Prevention Plan: Prepare a written plan for preventing fires during the Work, including placement of fire extinguishers, fire blankets, rag buckets, and other fire-prevention devices during each phase or process. Coordinate plan with Owner's fire-protection equipment and requirements. Include each fire watch's training, duties, and authority to enforce fire safety.
- C. Mockups: Prepare mockups of specific historic treatment procedures specified in this Section to demonstrate aesthetic effects and set quality standards for materials and execution.
- D. Regulatory Requirements: Comply with governing EPA notification regulations before beginning removal and dismantling work. Comply with hauling and disposal regulations of authorities having jurisdiction.
- E. Standards: Comply with ANSI/ASSE A 10.6.

1.7 STORAGE AND PROTECTION OF HISTORIC MATERIALS

- A. Salvaged Historic Materials:
 - 1. Clean only loose debris from salvaged historic items unless more extensive cleaning is indicated.
 - 2. Pack or crate items after cleaning; cushion against damage during handling. Label contents of containers.
 - 3. Store items in a secure area until time for delivery to Owner.
 - 4. Transport items to Owner's storage area designated by Owner.
 - 5. Protect items from damage during transport and storage.
- B. Existing Historic Materials to Remain: Protect construction indicated to remain against damage and soiling from construction work. Where permitted by Architect, items may be dismantled and taken to a suitable, protected storage location during construction work and reinstalled in their original locations after historic treatment and construction work in the vicinity is complete.
- C. Storage and Protection: When taken from their existing locations, catalog and store historic items within a weathertight enclosure where they are protected from wetting by rain, snow, condensation, or ground water, and from freezing temperatures.
 - 1. Identify each item with a nonpermanent mark to document its original location. Indicate original locations on plans elevations, sections, or photographs by annotating the identifying marks.
 - 2. Secure stored materials to protect from theft.

1.8 PROJECT CONDITIONS

- A. General Size Limitation in Historic Spaces: Materials, products, and equipment used for performing the Work and for transporting debris, materials, and products shall be of sizes that clear surfaces within historic spaces, areas, rooms, and openings, including temporary protection, by 12" (twelve inches) or more.
- B. Owner will occupy buildings immediately adjacent to the Historic Jail building. The 1913 Jail will be vacated.
- C. Conditions existing at time of inspection for bidding purposes will be maintained by Owner as far as practical.
- D. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with removal and dismantling work.
- E. Hazardous Materials: Hazardous materials are not expected to be present in construction affected by removal and dismantling work other than lead paint. The contractor shall exercise care in handling lead paint according to governmental regulations.
- F. Storage or sale of removed or dismantled items on-site is not permitted unless otherwise indicated.

1.9 COORDINATION

- A. Coordinate historic treatments procedures in this section with public circulation patterns at Project site. Some work is near public circulation patterns. Public circulation patterns cannot be closed off entirely, and in places, can be only temporarily redirected around small areas of work. Plan the Work accordingly.

PART 2 - PRODUCTS - (Not Used)

PART 3 - EXECUTION

3.1 HISTORIC REMOVAL AND DISMANTLING EQUIPMENT

- A. Removal Equipment: Use only hand-held tools except as follows or unless otherwise approved by the Architect on a case-by-case basis:
 - 1. Light jackhammers are not allowed.
 - 2. Large air hammers are **not** permitted.
- B. Dismantling Equipment: Use manual, hand-held tools, except as follows or otherwise approved by the Architect on a case-by-case basis:
 - 1. Pry bars over 18 inches long and hammers weighing over 2 lb are not permitted for dismantling work.

3.3 EXAMINATION

- A. Preparation for Removal and Dismantling: Examine construction to be removed or dismantled to determine best methods to safely and effectively perform removal and dismantling work. Examine adjacent work to determine what protective measures will be necessary. Make explorations, probes, and inquiries as necessary to determine condition of construction to be removed or dismantled and location of utilities and services to remain that may be hidden by construction that is to be removed or dismantled.
 - 1. Verify that affected utilities have been located, disconnected and capped.
 - 2. Before removal or dismantling of existing building elements that will be reproduced or duplicated in final Work, make permanent record of measurements, materials, and construction details required to make exact reproduction.
- B. Survey of Existing Conditions: Record existing conditions by use of preconstruction photographs.
 - 1. Comply with requirements specified in Division 01 Section "Photographic Documentation."

3.4 PROTECTION, GENERAL

- A. Ensure that supervisory personnel are on-site and on duty when historic treatment work begins and during its progress.
- B. Temporary Protection of Historic Materials:
 - 1. Protect existing historic materials with temporary protections and construction. Do not deface or remove existing materials beyond what is required in this contract.
- C. Comply with each product manufacturer's written instructions for protections and precautions. Protect against adverse effects of products and procedures on people and adjacent materials, components, and vegetation.

3.5 PROTECTION FROM FIRE

- A. General: Follow fire-prevention plan and the following.
 - 1. Comply with NFPA 241 requirements unless otherwise indicated.
 - 2. Remove and keep area free of combustibles including, rubbish, paper, waste, and chemicals, except to the degree necessary for the immediate work.
 - a. If combustible material cannot be removed, provide fire blankets to cover such materials.
 - 3. Prohibit smoking by all persons within the Project work area and staging areas.
- B. Fire Extinguishers, Fire Blankets, and Rag Buckets: Maintain fire extinguishers, fire blankets, and rag buckets for disposal of rags with combustible liquids. Maintain each as suitable for the type of fire risk in each work area. Ensure that nearby personnel and the fire watch are trained in fire-extinguisher and blanket operation.

3.6 GENERAL HISTORIC TREATMENT

- A. Ensure that supervisory personnel are present when historic treatment work begins and during its progress.

- B. Halt the process of deterioration and stabilize conditions, unless otherwise indicated. Perform work as indicated on Drawings. Follow the procedures in subparagraphs below and procedures approved in historic treatment program.
 - 1. Retain as much existing material as possible; repair and consolidate rather than replace.
 - 2. Use additional material or structure to reinforce, strengthen, prop, tie, and support existing material or structure.
 - 3. Use reversible processes wherever possible.
 - 4. Use historically accurate repair and replacement materials and techniques unless otherwise indicated.
 - 5. Record existing work before each procedure (preconstruction) and progress during the work with digital preconstruction documentation photographs or videos. Comply with requirements in Division 01 Section "Photographic Documentation."
- C. Notify Contractor and Architect of visible changes in the integrity of material or components whether due to environmental causes including biological attack, UV degradation, freezing, or thawing; or due to structural defects including cracks, movement, or distortion.
 - 1. Do not proceed with the work in question until directed by Contractor and Architect.
- D. Where missing features are indicated to be repaired or replaced, provide features whose designs are based on accurate duplications rather than on conjectural designs, subject to the approval of Architect and THC.
- E. Where Work requires existing features to be removed or dismantled and reinstalled, perform these operations without damage to the material itself, to adjacent materials, or to the substrate.
- F. Identify new and replacement materials and features with permanent marks hidden in the completed work to distinguish them from original materials. Record a legend of identification marks and the locations of the items on Record Drawings.

3.7 HISTORIC REMOVAL AND DISMANTLING

- A. General: Have removal and dismantling work performed by a qualified historic removal and dismantling specialist. Ensure that historic removal and dismantling specialist's field supervisors are present when removal and dismantling work begins and during its progress.
- B. Water-Mist Sprinkling: Use water-mist sprinkling and other wet methods to control dust only with adequate, approved procedures and equipment that ensure that such water will not create a hazard or adversely affect other building areas or materials.
- C. Unacceptable Equipment: Keep equipment that is not permitted for historic removal or dismantling work away from the vicinity where such work is being performed.
- D. Removing and Dismantling Items On or Near Historic Surfaces:
 - 1. Use only dismantling tools and procedures within 12 inches of historic surface. Do not use pry bars. Protect historic surface from contact with or damage by tools.
 - 2. Unfasten items to be removed, in the opposite order from which they were installed.
 - 3. Support each item as it becomes loosened to prevent stress and damage to the historic surface.
 - 4. Dismantle anchorages.
- E. Masonry Walls:
 - 1. Remove masonry carefully and erect temporary bracing and supports as needed to prevent unexpected collapse of materials being removed.

2. Stop removal work and immediately inform the Contractor and Architect if any structural elements above or adjacent to the work show signs of distress or dislocation during any phase of removal work.
3. Remove wall in easily managed pieces.
4. During removal, the Contractor is responsible for the stability of the partially remaining wall. Notify the Contractor and Architect of the condition of temporary bracing for wall if work is temporarily stopped during the wall's removal.

END OF SECTION 013591

SECTION 017700 - CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
 - 1. Substantial Completion procedures.
 - 2. Final completion procedures.
 - 3. Warranties.
 - 4. Final cleaning.
- B. Related Sections:
 - 1. Divisions 02 through 32 Sections for specific closeout and special cleaning requirements for the Work in those Sections.

1.3 SUBSTANTIAL COMPLETION

- A. Preliminary Procedures: Before requesting inspection for determining date of Substantial Completion, complete the following. List items below that are incomplete with request.
 - 1. Prepare a list of items to be completed and corrected (punch list), the value of items on the list, and reasons why the Work is not complete.

1.4 FINAL COMPLETION

- A. Preliminary Procedures: Before requesting final inspection for determining final completion, complete the following:
 - 1. Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. The certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.

1.5 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

- A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
 - 1. Organize list of spaces in sequential order, starting with exterior areas first proceeding from lowest floor to highest floor.

2. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
3. Include the following information at the top of each page:
 - a. Date.
 - b. Name of Contractor.
 - c. Project name and number.

1.6 WARRANTIES

- A. Submittal Time: Submit written warranties on request of Architect for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated.
- B. Organize warranty documents into an orderly sequence based on the Table of Contents of the Project Manual.
 1. Bind warranties and bonds in heavy-duty, three-ring, vinyl-covered, loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2-by-11-inch paper.
 2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
 3. Identify each binder on the front and spine with the typed or printed title "WARRANTIES," Project name, and name of Contractor.
 4. Scan warranties and bonds and assemble complete warranty and bond submittal package into a single indexed electronic PDF file with links enabling navigation to each item. Provide table of contents at beginning of document.
- C. Provide additional copies of each warranty to include in operation and maintenance manuals.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.
 1. Use cleaning products that meet Green Seal GS-37, or if GS-37 is not applicable, use products that comply with the California Code of Regulations maximum allowable VOC levels.

PART 3 - EXECUTION

3.1 FINAL CLEANING

- A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.

- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a portion of Project:
- a. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
 - b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
 - c. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
 - d. Remove tools, construction equipment, machinery, and surplus material from Project site.
 - e. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
 - f. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
- C. Construction Waste Disposal: Dispose of all construction related waste in approved sites in compliance with requirements of authorities having jurisdiction.

END OF SECTION 017700

SECTION 017839 - PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for project record documents, including the following:
 - 1. Record Drawings.
- B. Related Sections:
 - 1. Divisions 02 through 32 Sections for specific requirements for project record documents of the Work in those Sections.

1.3 CLOSEOUT SUBMITTALS

- A. Record Drawings: Comply with the following:
 - 1. Number of Copies: Submit two (2) sets of marked-up record prints.
- B. Reports: Submit written report weekly indicating items incorporated in Project record documents concurrent with progress of the Work, including modifications, concealed conditions, field changes, product selections, and other notations incorporated.

PART 2 - PRODUCTS

2.1 RECORD DRAWINGS

- A. Record Prints: Maintain one set of marked-up paper copies of the Contract Drawings and Shop Drawings.
 - 1. Preparation: Mark record prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to provide information for preparation of corresponding marked-up record prints.
 - a. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
 - b. Accurately record information in an acceptable drawing technique.
 - c. Record data as soon as possible after obtaining it.
 - d. Record and check the markup before enclosing concealed installations.
 - e. Cross-reference record prints to corresponding archive photographic documentation.
 - 2. Content: Types of items requiring marking include, but are not limited to, the following:

- a. Dimensional changes to Drawings.
 - b. Revisions to details shown on Drawings.
 - c. Depths of foundations below first floor.
 - d. Locations and depths of underground utilities.
 - e. Revisions to routing of piping and conduits.
 - f. Revisions to electrical circuitry.
 - g. Actual equipment locations.
 - h. Duct size and routing.
 - i. Locations of concealed internal utilities.
 - j. Changes made by Change Order or Construction Work Change Directive.
 - k. Changes made following Architect's written orders.
 - l. Details not on the original Contract Drawings.
 - m. Field records for variable and concealed conditions.
 - n. Record information on the Work that is shown only schematically.
- 3. Mark the Contract Drawings and Shop Drawings completely and accurately. Utilize personnel proficient at recording graphic information in production of marked-up record prints.
 - 4. Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
 - 5. Mark important additional information that was either shown schematically or omitted from original Drawings.
 - 6. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.
- B. Format: Identify and date each record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location.
- 1. Record Prints: Organize record prints and newly prepared record Drawings into manageable sets. Bind each set with durable paper cover sheets. Include identification on cover sheets.
 - 2. Format: Annotated PDF electronic file with Comment function enabled.
 - 3. Identification: As follows:
 - a. Project name.
 - b. Date.
 - c. Designation "PROJECT RECORD DRAWINGS."
 - d. Name of Architect.
 - e. Name of Contractor.

PART 3 - EXECUTION

3.1 RECORDING AND MAINTENANCE

- A. Recording: Maintain one copy of each submittal during the construction period for project record document purposes. Post changes and modifications to project record documents as they occur; do not wait until the end of Project.
- B. Maintenance of Record Documents and Samples: Store record documents and Samples in the field office apart from the Contract Documents used for construction. Do not use project record documents for construction purposes. Maintain record documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to project record documents for Architect's reference during normal working hours.

END OF SECTION 017839

SECTION 041000 - PREPARING LIME MORTARS FOR REPOINTING MASONRY

PART 1---GENERAL

1.01 SUMMARY

- A. This standard includes guidance on preparing lime mortars for repointing masonry.
- B. Lime mortars are preferable to portland cement mortars for repointing historic masonry:
 - 1. Lime mortars are more permeable by water. Water passing through lime mortar will dissolve a small portion of the lime and then will deposit it in hairline cracks as the water evaporates.
 - 2. Lime mortars expand slightly during setting, and resists shrinkage which causes cracking.
 - 3. Lime mortars are more durable than generally recognized.
- C. See Division 01 for general project guidelines to be reviewed along with this procedure. These guidelines cover the following sections:
 - 1. Safety Precautions
 - 2. Historic Structures Precautions
 - 3. Submittals
 - 4. Quality Assurance
 - 5. Delivery, Storage and Handling
 - 6. Project/Site Conditions
 - 7. Sequencing and Scheduling
 - 8. General Protection (Surface and Surrounding)

1.02 REFERENCES

- A. American Society for Testing and Materials (ASTM), 100 Barr Drive, West Conshohocken, PA 19428, (610) 832-9585 or FAX (610) 832-9555.

1.03 DELIVERY, STORAGE AND HANDLING

- A. Storage and Protection: Lime and cement must be protected from rainwater and ground moisture, as water vapor in the air can begin the setting process. Other materials also should be protected from contamination.

PART 2---PRODUCTS

2.01 MATERIALS

NOTE: The use of standard specifications for materials, such as those developed by the ASTM, provides an easily referenced level of quality.

- A. Lime: Should conform to ASTM C207, Type S, high plasticity, Hydrated Lime for Masonry Purposes.
1. Lime which meets this standard will "work" well, resists drying during curing, and is sufficiently strong for the purpose of repointing.
 2. Lime expands as it hydrates, making high lime mortars more resistant to crack formation.
- B. Cement: Should conform to ASTM C150, Type I, White. It should not have more than 0.60% alkali nor more than 0.15% water soluble alkali. Use gray portland cement ONLY if a dark mortar is to be matched.
1. Cement meeting this standard should increase the workability of the mortar, accelerate the setting time and slightly increase the strength of the mortar.
 2. The low alkali content will prevent efflorescence.
- C. Sand: Free of impurities and conforming to ASTM C144.
1. Sand color, size, and texture should match the original as closely as possible. Provide a sample of the sand for comparison to the original, and have it approved by the RHPO before beginning repointing work.
 2. When possible, use bar sand or beach sand rather than crushed sand for the repointing mortar.
- NOTE: Bar Sand or Beach Sand should be washed to remove the salts before using.
- a. Crushed sand has sharp edges, which makes it more "sticky" and difficult to work into the joints.
 - b. Bar sand, on the other hand, has rounded edges and flows easily during the mortar application.
 - c. The working characteristics of mortar made with crushed sand may be improved by adding a slight amount of portland cement. The amount of cement should be determined by experimentation, but should not exceed 20% of the total lime/cement binder. 20% or less of cement has minimal effect on the hardness of the mortar. Cement content above 20% will make the mortar too hard.
- D. Clean, potable water: If the water must be transported or stored in a container, the container must not impart any chemicals to the water.
- E. Stone dust finely ground from the same stone as that to be repointed.
- F. Additives: NO antifreeze compounds or other admixture shall be used.

NOTE: Do not use anti-freeze compounds. These compounds are designed for use with cement mortars, and their effectiveness with high lime mortars is questionable. Furthermore, the compounds contain salts which can lead to serious problems in the masonry at a later time.

NOTE: Air entraining agents are not recommended. These agents are designed for use with cement rather than lime, and they result in decreased bonding of the mortar and the masonry. Air entraining is not necessary with high lime mortars because of the natural ability of these mortars to flex with temperature changes.

2.02 EQUIPMENT

- A. Surface temperature thermometer - can be either mechanical (less expensive but must be calibrated often) or digital electronic

- B. Wooden mortar boxes
- C. Hoe
- D. Mesh screen
- E. Hawks: Plywood or steel hawk (mortar board)

2.03 MIXES

A. Some factors to consider when mixing lime mortar include durability, color and texture, and workability.

1. Durability: Repointing mortar should be softer than the masonry units and the original mortar to reduce stresses at the edge of the masonry and, in the case of lime mortar, to reduce shrinkage which can cause cracks in the mortar.
 - a. If the new mortar is harder than the masonry or the original mortar, it can cause serious stresses within the wall during thermal expansion and contraction, which can lead to deterioration of the masonry units rather than the mortar.
 - b. If the mortar is softer, any deterioration which occurs will take place in the mortar, which is easier to replace than the units themselves.
2. The repointing mortar should allow the passage of water, both liquid and vapor. If the mortar does not allow water to pass freely through it, the water can become trapped inside the masonry units of the wall, freeze and cause serious deterioration to the MASONRY.
3. Color and texture: The repointing mortar should match the original mortar in color, texture and other visual qualities as well as physical characteristics such as hardness and porosity.
 - a. Obtaining an accurate color match is best achieved by selecting an appropriate sand.
 - 1) Use sand which is similar to the original in color and gradation. Sand from more than one source may be required.
 - 2) For repointing of natural stones, finely ground stone "dust" may be used in place of sand in the mortar to match the joints to the stone, a common technique in historic stone construction to create a unified appearance.
 - b. If the original mortar was tinted, or if it is impossible to obtain a color match through the use of available sand, it may be necessary to use a special mortar pigment.

CAUTION: Pigments may react with other ingredients in the mortar to form efflorescence. They may also weather at a different rate than natural coloring and cause a color variation in the mortar.

NOTE: If pigments must be used, pure mineral oxides should be used because they do not fade or leach out of the mortar. Amount of pigment should not exceed 2% of the mortar mix by weight.

- c. Many mortars used before the twentieth century have small lumps of incompletely burned or ground lime, or other impurities. To match the original appearance of the masonry, these impurities must be included in the new repointing mortar. Use identical materials, such as ground oyster shells (obtained at feed stores) or lumps of lime, to duplicate

original lumps.

4. Workability: The workability or plasticity of the mortar is a direct result of the selection of materials.

B. Mortar Mix:

1. Have the existing mortar completely analyzed to insure that the repointing mortar will not be less permeable/harder than the masonry units or the original mortar. It is better to have mortar that is more permeable than less.
2. Measure all ingredients by cubic volume using a pre-established uniform measure, such as a small bucket, rather than a less uniform measure such as a shovel.
3. For historic masonry set in lime mortar, use the following mortar mix:

1 part portland cement
3 parts lime
8-12 parts sand (To match existing mortar as closely as possible.)

NOTE: The exact mix required will relate to the grain size and sharpness of the sand and will vary depending on the supply.

-OR-

For historic masonry set in standard mortar, use the following mortar mix (ASTM C270 Type "0") as a starting point:

1 part portland cement
2 parts lime or lime putty
6 to 9 parts sand and stone dust (To match existing mortar as closely as possible.)

-OR-

For Limestone (ASTM C270 Type "N"):

1 part portland cement
1 parts lime
4-6 parts aggregate
Enough water to form a workable consistency

4. Mix a final "job-size" batch once the correct sand color, cement content, etc. have been determined through small tests to ensure the on-site mixing conditions will result in the same final product.

PART 3---EXECUTION

3.01 ERECTION, INSTALLATION, APPLICATION

A. Mix Hydrated Lime:

1. Add dry bagged hydrated lime to water. Stir and hoe the mass to form a thick cream.

2. Allow to stand at least 24 hours before use.

B. Prepare Roughage Premix (for later use):

1. Accurately proportion the sand and lime using measuring boxes constructed to contain the exact volume of each ingredient required to make one batch.
2. Mix sand and lime thoroughly for about ten minutes.
Store in plastic-lined drums and seal until required.

NOTE: This compound may be stored indefinitely if kept sealed from air and kept from freezing.

3. When required for use, add and mix the correct portion of gauging cement as specified and use immediately. Accurate portioning is very important.

C. Add cements to lime and aggregate mixes immediately before the use of the mortar.

1. Perform all batching with wooden boxes or plastic pails of known volume to ensure standardization and conformity of measurement; shovel measurement of materials is not permitted.
2. Use box sizes that are sufficient for producing a batch size equal to one mixer load.

NOTE: Mix dry ingredients thoroughly before adding any water (approximately five minutes).

D. Add a small amount of water so that the mortar is just wet enough to hang on a trowel.

NOTE: Excess water will cause shrinkage and too little water will retard carbonation. Record the amount of water added so that it may be used as a guide for future batches.

E. Mix mortars at least 10 minutes before using to improve workability and ensure thorough mixing.

NOTE: Automatic mixers should have rubber blades. Clean mixing boards and mixing machines thoroughly after each use to prevent hardened lumps or mortar from contaminating the next batch of mortar.

1. Repointing mortars may sit 1-2 hours after initial mixing and then may be remixed to a workable consistency. This is done to reduce shrinkage.
2. Test the mix by holding a trowel with mortar on it upside down and shaking it once.
 - a. If the mortar falls off without shaking, it has too much sand.
 - b. If more than one shake is required, the mortar is too sticky or "plastic" and the lime content must be decreased.

F. Coloring Mortars:

1. Take samples of freshly-broken mortar from the original masonry pointing. Note color of aggregate for color-matching. DO NOT TRY TO MATCH THE COLOR OF THE BINDER.

NOTE: Use unweathered, unsoiled samples only.

2. Prepare test patties of mortar approximating the inner color of the sample and set aside to dry for at least 72 hours. Drying time may be accelerated by placing the patty sample in an oven or over a hot-plate.
3. Break the sample test patties and compare the inner portions to the original.

4. See Section 2.03 above for additional information on coloring mortars.

G. Use repointing mortar within approximately 1-2 hours of final mixing. Retemper the mortar as necessary to maintain workability.

NOTE: Retempering is permitted to maintain workability. Remixing is not permitted. Add water at the mortar-board using a spray bottle to replace only water lost through evaporation.

NOTE: Use all mortar within two hours of gauging; throw out left over mortar. Do not re-temper or remix mortars after this time has elapsed.

NOTE: This time limit may vary depending upon the outside temperature (longer on cooler days and shorter on warmer days).

H. For guidance on repointing, see other Division 4 sections.

END OF SECTION

SECTION 042100 - BRICK UNIT MASONRY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY:

- A. Section Includes:

- 1. Extent of each type of brick masonry work is indicated on drawings.
 - 2. Providing and installing 1913's era historic brick salvaged from other projects.
 - 3. Historic mortar analysis.

- B. Safety Precautions:

- 1. The work specified herein requires knowledge of older materials and methods and a high degree of skill to execute properly. This work should be performed only by an experienced, prequalified Contractor.

- C. Related Sections:

- 1. Division 04 Sections: "Preparing Lime Mortars for Repointing Masonry" and "Repointing Historic Masonry".

1.3 QUALITY ASSURANCE

- A. Single source responsibility for masonry units: Obtain historic masonry units from one source for each different product required for each continuous surface or visually related surfaces. The Texas Historical Commission and the Architect, prior to installation, must approve salvaged brick from other projects proposed for use on this project.

- B. Single Source Responsibility for Mortar Materials: Obtain mortar ingredients of uniform quality from one manufacturer for each cementitious component and from one source and producer for each aggregate.

- C. Historic Mortar Analysis:

- 1. The Contractor shall obtain the services of a qualified firm specializing in analysis of historic mortar.
 - 2. Exterior: Include extraction (may be performed by contractor) and analysis of 1 sample from the west elevation and 1 from the south elevation.
 - 3. The Architect will provide locations where samples are to be extracted.
 - 4. Mortar sampling and testing is the responsibility of the contractor under the base bid. This testing is not included in an allowance.

- D. Restoration Specialist Qualifications: Engage an experienced preapproved brick restoration firm to perform work of this Section. Firm shall have completed work similar in material, design, and extent to that indicated for this Project with a record of successful in-service performance. Experience installing standard unit masonry or new brick masonry is not sufficient experience for historic brick restoration work.
1. Firm: Five years minimum experience and involvement in a minimum of two projects involving the Texas Historical Commission or proof of extensive experience elsewhere. A statement of qualifications **must** be submitted for approval.
 2. Field Supervision: Restoration specialist firms shall maintain experienced full-time supervisors on Project site during times that brick removal and restoration work is in progress. Supervisors shall not be changed during Project except for causes beyond control of restoration specialist firm.
 3. Restoration Worker Qualifications: Persons who are experienced in restoration work of types they will be performing.
- E. Repair Appearance Standard: Repaired brick masonry surfaces are to have a uniform appearance as viewed from 20 feet and 50 feet away by Architect and THC. Perform additional removal and replacement of small areas that are noticeably different, so that surface blends smoothly into surrounding areas.

1.4 SUBMITTALS

- A. Product Data: Submit product data for each type of masonry unit, accessory, and other manufactured products, including certifications that each type complies with specified requirements.
- B. Historic Brick Product Data: Provide written documentation that brick salvaged from other project was manufactured at the approximate time period (1913's era) as this building's original construction. This applies to masonry exposed to view.
- C. Samples: Provide samples of proposed materials salvaged from other project.
- D. Information Statement: Submit information statement for company directly performing this portion of the Work.
- E. At least two mortar analysis results.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Historic replacement brick units are required. Deliver brick units to Project site strapped together in suitable packs or pallets or in heavy-duty crates.
- B. Deliver other materials to Project site in manufacturer's original and unopened containers, labeled with manufacturer's name and type of products.
- C. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use materials that have become damp.
- D. Store hydrated lime in manufacturer's original and unopened containers. Discard lime if containers have been damaged or have been opened for more than two days.
- E. Store lime putty covered with water in sealed containers.

- F. Store where grading and other required characteristics can be maintained and contamination avoided.

1.6 PROJECT CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit brick restoration work to be performed according to manufacturer's written instructions and specified requirements.
- B. Repair brick units and point mortar joints only when air temperature is between 40° and 90° F and is predicted to remain so for at least 7 days after completion of the Work unless otherwise indicated.
- C. Cold-Weather Requirements: Comply with the following procedures for brick repair and mortar-joint pointing unless otherwise indicated:
 - 1. When mean daily air temperature is below 40° F; provide enclosure and heat to maintain temperatures above 32° F within the enclosure for 7 days after repair and pointing.
 - 2. All materials must be kept above 40° F.
- D. Hot-Weather Requirements: Protect brick repair and mortar-joint pointing when temperature and humidity conditions produce excessive evaporation of water from mortar and patching materials. Provide artificial shade and wind breaks and use cooled materials as required to minimize evaporation. Mortar mixing should be done only in the shade; Cover mortar with water-misted burlap in hot weather to reduce evaporation; Pointing work should be done in the shade; Work around the building during the day so that the fresh work will be shielded from direct sunlight to reduce evaporation rate. High temperatures can cause flash setting of cements and rapid evaporation of water in the mix, leading to lack of development of final strength by the cement. Do not apply mortar to substrates with temperatures of 90 deg F and above unless otherwise indicated.
- E. Special Precautions and Notes: Do not allow masonry to freeze until mortar is thoroughly dry and hardening almost complete (approx. three days time); The setting of lime mortar is very much slower than that of cement mortar because the curing requires the absorption of carbon dioxide to form hard lime carbonates; It is a very lengthy process, so do not expect it to become hard immediately, especially at the core of large masses of masonry.
- F. For manufactured repair materials, perform work within the environmental limits set by each manufacturer.
- G. Prevent grout or mortar used in repair work from staining face of surrounding brick masonry and other surfaces. Immediately remove grout and mortar in contact with exposed brick and other surfaces.
- H. Protect sills, ledges and projections from mortar droppings.

1.7 COORDINATION

- A. Coordinate brick restoration and replacing with public circulation patterns at Project site. Some work is near public circulation patterns. Public circulation patterns cannot be closed off entirely, and in places can be only temporarily redirected around small areas of work. Plan and execute the Work accordingly.

PART 2 – PRODUCTS

2.1 MATERIALS

- A. Salvaged Brick: Sound, crack free, clean brick without face chips larger than 1/2 inch, salvaged from previous building removal, of same type found at the site.
- B. Replacement Brick: Approved by Architect/THC.
- C. Mortar to match existing and mix design based upon mortar analysis provided by Contractor.

2.2 MORTAR MIX

- A. General:
 - 1. This section applies to historic masonry related work only.
 - 2. Do not add admixtures.
 - 3. Mixing mortar on site is acceptable.
 - 4. Mixes shall be based upon ingredients and proportions as determined by the historic mortar analysis. Color adjustments shall be made on site.
 - 5. Construct mock-up mortar joints on panel for comparison to existing. Evaluation will be made after seven days curing.
 - 6. Base the proposed mortar mix on results of mortar analysis.
- B. Manufacturers: Subject to compliance with requirements, provide one of the following:
 - 1. Texas Cement.
 - 2. Approved equal.

2.3 MASONRY CLEANERS

- A. Detergent Solution: Sure Klean No. 600 Detergent; ProSoCo., Inc.. Verify compatibility with masonry Manufacturer as applicable.

2.4 EQUIPMENT

- A. Trowel
- B. Joint tools
- C. Chisel
- D. Hawk
- E. Hammer
- F. Stiff bristle brushes

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Examine locations of removed existing brick chimney for suitability and condition of base for installation of replacement historic brick masonry. Attachment of new structural and non-structural items in concealed spaces may be required. Historic brick may be removed and salvaged at the anchoring locations.
 - 1. Masonry units installed at the anchoring locations in concealed spaces may be replacement historic brick.
 - 2. Mortar used at the anchoring locations in concealed spaces shall be as required from the historic mortar analysis. The compressive strength shall be consistent with that of modern mortar mixes utilized in structural masonry construction.

3.2 PREPARATION

- A. Existing Brick Removal: Remove any remaining existing loose brick down to sound masonry construction, prior to installation of replacement brick masonry units.
- B. Surface Preparation:
 - 1. Wet brick having absorption rates greater than 0.025 oz. per sq. inch per minute.
 - a. On the flat side of a brick, deposit water on an area approximately the size of a 25 cent coin.
 - b. If the water disappears in less than 30 seconds, wet the bricks.
 - 2. Absorptive brick should be thoroughly soaked in the pile each afternoon prior to the day they are to be used.
 - 3. Cover the bricks with tarps or heavy paper to prevent evaporation.
 - 4. Wet brick as necessary during the day; Sprinkle the brick pile with a hose for a period long enough for water to run down the side of the pile; Use wetting methods which ensure that each masonry unit is nearly saturated but surface dry when laid.
 - 5. Where fresh masonry joins existing work, clean the exposed surface of the set masonry by removing loose brick and mortar and wet lightly to obtain the best possible bond with the new work.

3.3 ERECTION AND INSTALLATION

- A. Do not lay any masonry in freezing weather.
- B. Thickness: Build chimneys and other masonry construction to the full thickness shown. Build single wythe walls to the actual thickness of the masonry units, using units of nominal thickness indicated.
- C. Replacing Removed Brick with Full-Size Historic (1880's era) Brick:
 - 1. Lightly wet the exposed remaining brick surfaces, after removal of existing brick.
 - 2. Rebuild back-up and substrate as indicated to replace removed material.
 - 3. Lay brick units with completely filled bed and head joints; butter ends with sufficient mortar to fill head joints and shove into place.
 - 4. Joint width shall match original construction.
 - 5. Lay masonry plumb and true following the coursing and patterns of the original chimney in strict accordance with the original Architect's (Ruffini's) design. Level off work at required heights.

6. If adjustments are required, remove units, clean off mortar and reset in fresh mortar.
 7. Blend new work into existing work smoothly with no lines of demarcation and no change of pattern or coursing.
 8. Brush all excess mortar from the wall surface frequently during the work. Protect all existing surfaces from mortar dripping and splashing.
 9. Joint tooling shall match existing construction.
- D. Cut masonry units using motor-driven saws to provide clean, sharp, unchipped edges for concealed surfaces. Cut units as required to provide continuous pattern and to fit adjoining work. Use full-size units without cutting where possible.

3.3 FLASHING OF MASONRY WORK

- A. General: Provide concealed flashing in masonry work at, or above obstructions to the downward flow of water in the wall so as to divert such water to the exterior. Build in stepped flashing, where indicated, to extend down on exposed edge to form drip. Extend flashing from exterior face of outer wythe of masonry, through the other wythe, turned up a minimum of 8 inches, and through the inner wythe to within 1/2 inch of the interior face of the wall in exposed work.

3.4 CLEANING

- A. Clean off adjacent surfaces which have been spattered during the course of the work. Rinse immediately with clean, clear water.
- B. Wipe all excess mortar as the work progresses. Clean masonry with a dry brush at the end of each day's work.
- C. After mortar is thoroughly set and cured, remove loose mortar and dirt from masonry surfaces.
- D. Wash down the masonry surface with minimal amount of clean, clear water to cause no damage to adjacent construction.

END OF SECTION 042100

SECTION 042110 - REPOINTING HISTORIC MASONRY

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Repointing of existing exterior mortar joints in masonry for the historic building.
 - 2. Mortar Analysis.

- B. Safety Precautions:

- 1. The work specified herein requires knowledge of older materials and methods and a high degree of skill to execute properly. This work should be performed only by an experienced, prequalified Contractor.

- C. Related Sections:

- 1. Division 04 Section “Preparing Lime Mortars for Repointing Masonry”.
 - 3. Division 04 Section “Brick Masonry”.
 - 4. Division 04 Section “Patching Cracks in Masonry”.

- D. The guidelines herein should be reviewed prior to performing this procedure and should be followed, when applicable.

1.3 REFERENCES

- A. National Park Service, U.S. Department of the Interior, Preservation Brief – 23 - - Repointing Mortar Joints in Historic Masonry Buildings.
- B. Follow recommendations in the Secretary of the Interiors Standards for Rehabilitation for extent of sampling required for mortar analysis.

1.4 SUBMITTALS

- A. Mortar Analysis: Submit laboratory results of mortar analysis to the Architect for review. Architect shall provide location(s) for sampling.
- B. Samples: Based on results of the mortar analysis, submit mortar sample of each type showing color, texture and tooling. A minimum of two samples shall be examined.

- C. Project Mock-Ups: Prior to approval of limestone mortar samples, produce a mock-up on each elevation of the existing building (48" x 48" area) for review by Architect and THC.

1.5 QUALITY ASSURANCE

- A. Restoration Specialist Qualifications: Engage an experienced preapproved masonry restoration firm to perform work of this Section. Firm shall have completed work similar in material, design, and extent to that indicated for this Project with a record of successful in-service performance. Experience installing and pointing standard unit masonry or new brick or stone masonry is not sufficient experience for masonry repointing work.
 - 1. Firm: Five years minimum experience and involvement in a minimum of two projects involving the Texas Historical Commission or proof of extensive experience elsewhere. A statement of qualifications **must** be submitted for approval.
 - 2. Field Supervision: Restoration specialist firms shall maintain experienced full-time supervisors on Project site during times that repointing work is in progress. Supervisors shall not be changed during Project except for causes beyond control of restoration specialist firm.
 - 3. Repointing Worker Qualifications: Persons who are experienced in repointing work of types they will be performing.
- B. Source Limitations: Obtain each type of material for masonry repointing (cement, sand, etc.) from one source with resources to provide materials of consistent quality in appearance and physical properties.
- C. Manufacturer's Qualifications: A company regularly engaged in producing masonry repointing products, which have been used on similar projects addressing similar masonry conditions with successful results, and that retains factory-trained representatives who are available for consultation and job site inspection and assistance at no additional cost.
- D. Repointing Appearance Standard: Repointed masonry surfaces are to have a uniform appearance as viewed from 20 feet and 50 feet away by Architect and THC. Perform additional paint and stain removal, general cleaning, and spot cleaning of small areas that are noticeably different, so that surface blends smoothly into surrounding areas.
- E. Mockups: Prepare mockups of repointing to demonstrate aesthetic effects and set quality standards for materials and execution and for fabrication and installation.
 - 1. Prepare sample areas for each type of masonry indicated to have repointing work performed. Sizes of mockup shall be as previously indicated. Erect sample areas in existing walls unless Otherwise indicated, to demonstrate quality of materials, workmanship, and blending with existing work.
 - a. Obtain Architect's acceptance of visual qualities before proceeding with the Work.
 - b. Approval of mockups does not constitute approval of deviations from the Contract Documents requirements contained in mockups unless Architect specifically approves such deviations in writing.
 - c. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Protect cementitious materials from precipitation and absorption of ground moisture.
- B. Store masonry accessories and tools to prevent corrosion, dirt accumulation and other deterioration.

1.7 PROJECT CONDITIONS

A. Environmental Requirements:

1. Do not proceed with repointing under adverse weather conditions.
2. Proceed with the work only when forecasted weather conditions are favorable for proper cure.
3. Do not repoint surfaces with accumulations of water or during rain.
4. Do not repoint when the surface temperature of masonry is below 40 degrees F., or air temperature is predicted to be below 40 degrees F. within 48 hours.
5. Do not repoint when the surface temperature of masonry is above 100 degrees F. Mortar mixing should be done in shade. Cover mortar with water-misted burlap to reduce evaporation. Pointing work during hot weather should be on the shade side of the building.
6. Do not allow mortar to freeze until mortar is thoroughly dry (approximately three days after pointing).

PART 2 – PRODUCTS

2.1 MATERIALS

- A. Mortar: To match existing.
- B. Water: Potable.

PART 3 – EXECUTION

3.1 REPOINTING EXISTING MASONRY

- A. Joints Requiring Repointing – Definition: The process of raking out (removing) mortar and replacing it with new mortar.
 1. As a general rule, joints between existing mortar and masonry or cracks in mortar that are 1/16” or larger must be repointed.
 2. Remove existing inappropriate mortar joints and repoint.
- B. Joint Raking:
 1. Rake out mortar from joints to depths equal to 2-1/2 times their widths but not less than 3/4” nor less than that required to expose sound, unweathered mortar.
 2. Remove mortar from masonry surfaces within raked-out joints to provide reveals with square backs and to expose masonry for contact with pointing mortar. Brush, vacuum or flush joints to remove dirt and loose debris.
 3. Do not spall edges of stone units or widen joints. Patch or replace any units which become damaged.
 - a. Cut out old mortar by hand with chisel and mallet.
 - b. Power operated rotary hand saw and grinders will not be permitted unless specific written approval of Architect based on submission by Contractor of a satisfactory quality control

- c. program and demonstrated ability of operators to use tools without damage to masonry. Quality control program shall include provisions for supervising performance and preventing damage due to worker fatigue.
- 4, Remove inappropriate and non-historic mortar to a depth sufficient to point with new mortar matching original. If non-historic mortar is of sufficient strength that masonry edges are being damaged, stop immediately. Notify the Architect and propose an alternate method.

C. Joint Pointing:

1. Rinse masonry joint surfaces with water to remove any dust and mortar particles. Time application of rinsing so that, at time of pointing, excess water has evaporated or run off, and joint surfaces are damp but free of standing water.
2. Apply first layer of pointing mortar to areas where existing mortar was removed to depths greater than surrounding areas. Apply in layers not greater than 3/8" thoroughly and allow it to become thumbprint hard before applying next layer.
3. After joints have been filled to a uniform depth, place remaining pointing mortar in 3 layers with each of first and second layers filling approximately 2/5 of joint depth and third layer the remaining 1/5. Fully compact each layer and allow it to become thumbprint hard before applying next layer. Where existing masonry has rounded edges, recess final layer slightly from face. Take care not to spread mortar over edges onto exposed masonry surfaces, or to feather edge mortar.
4. When mortar is thumbprint hard, tool joints to match original appearance of joints, unless otherwise indicated. Remove excess mortar from edge of joints by brushing.
5. Cure mortar by maintaining in a damp condition for not less than 72 hours.
6. Where repointing work precedes cleaning of existing masonry, allow mortar to harden not less than 30 days before beginning cleaning work.

END OF SECTION 042110

SECTION 042140 – GENERAL CLEANING OF EXTERIOR MASONRY

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provision of the Contract, including General and Supplementary Conditions and Division 01 Specifications, apply to this Section.

1.2 SUMMARY

- A. This section includes guidance on cleaning historic exterior limestone masonry.
- B. Safety Precautions:
 - 1. The work specified herein requires knowledge of older materials and methods and a high degree of skill to execute properly. This work should be performed only by an experienced, prequalified Contractor.
- C. Related Sections include the following:
 - 1. Division 04 Section “Brick Unit Masonry”.
 - 2. Division 04 Section “Repointing Mortar Joints”.
 - 3. Division 04 Section “Patching Cracks in Masonry”.
- D. The guidelines herein should be reviewed prior to performing this procedure and should be followed, when applicable.

1.3 DEFINITIONS

- A. Low Pressure Spray: 100 to 400 psi; 4 to 6 gpm.
- B. Stone Terminology: ASTM C 119.

1.4 SUBMITTALS

- A. Samples:
 - 1. The Contractor shall clean a sample panel(s), approximately 4' x 4' in area. Location of sample panel to be selected by the Architect. Mockup shall be coordinated with requirements of Section “Repointing Mortar Joints”.
 - 2. Adjust the chemical concentrations, working pressures and methodologies during test panel cleaning as necessary.
- B. Product Data:
 - 1. Submit manufacturer's product literature instructions for use, and Material Safety Data Sheets (MSDS) for all cleaning materials.
 - 2. Prior to commencing the cleaning operations, the Contractor shall submit to the Architect a written description of the entire methods and procedures proposed for cleaning limestone including, but not limited to: Method of application, dilution of application, temperature of

- application, length of time of surface contact, method of rinsing surface (temperature, pressure, and duration), repetition of procedures, etc..
3. Prior to commencing the cleaning operations, the Contractor shall submit to the Architect a written description of proposed materials and methods of protection for preventing damage to adjacent materials, vehicular and pedestrian traffic, and the building interior during the cleaning of limestone.

1.5 QUALITY ASSURANCE

- A. Limestone Cleaning Specialist Qualifications: Engage an experienced preapproved limestone cleaning firm to perform the work under this Section. Firm shall have completed work similar in material, design and extent to that indicated for this Project with a record of successful in-service performance. Experience cleaning standard unit masonry or new stone masonry is not sufficient experience for historic stone cleaning work.
 1. Firm: Five years minimum experience and involvement in a minimum of two projects involving the Texas Historical Commission or proof of extensive experience elsewhere. A statement of qualifications **must** be submitted for approval.
 2. Field Supervision: Limestone Cleaning specialist firms shall maintain experienced full-time supervisors on Project site during times that stone cleaning work is in progress. Supervisors shall not be changed during Project except for causes beyond control of stone cleaning specialist firm.
 3. Stone Cleaning Worker Qualifications: Persons who are experienced in stone masonry cleaning work of types they will be performing.
- B. Source Limitations: Obtain each type of material for limestone cleaning (chemical solutions, etc.) from one source with resources to provide materials for consistent quality in appearance and physical properties.
- C. Manufacturer's Qualifications: A company regularly engaged in producing masonry cleaning products, which have been used on similar projects addressing similar limestone masonry conditions with successful results, and that retains factory-trained representatives who are available for consultation and job site inspection and assistance at no additional cost.
- D. Cleaning and Repair Appearance Standard: Cleaned and repaired surfaces are to have a uniform appearance as viewed from 20 feet and 50 feet away by Architect and THC. Perform additional paint and stain removal, general cleaning, and spot cleaning of small areas that are noticeably different, so that surface blends smoothly into surrounding areas.
- E. Mockups: Prepare mockups of restoration and cleaning to demonstrate aesthetic effects and set quality standards for materials and execution and for fabrication and installation.
 1. Stone Repair: Prepare sample areas for each type of stone indicated to have repair work performed. If not otherwise indicated, size each mockup not smaller than approximately 48 inches in height by approximately 48 inches in width dimension. Erect sample areas in existing walls unless otherwise indicated, to demonstrate quality of materials, workmanship, and blending with existing work.
 - a. Obtain Architect's acceptance of visual qualities before proceeding with the Work.
 - b. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 - c. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

- F. General Objective: The objectives of masonry cleaning are to remove dirt, grime and coatings from limestone without damaging underlying material and to give all stonework a clean, uniform appearance without blotches, streaks, runs, or any other kind of spotty appearance. Too aggressive cleaning shall not be acceptable.
- G. Regulatory Requirements: Comply with municipal and Federal regulations governing the cleaning chemical waste disposal, product safety, scaffolding and protection to workers and adjacent properties.

1.6 PROJECT/SITE CONDITIONS

- A. Environmental Requirements:
 - 1. No cleaning shall be executed when air or stonework surface temperature is below 45°F, unless adequate, approved means are provided for maintaining a 45°F, temperature of the air and materials during, and for 48 hours subsequent to, cleaning.
 - 2. Perform cleaning and washing of the exterior stonework only during hours of natural daylight.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

- A. ProSoCo, Inc.
755 Minnesota Avenue
P.O. Box 1578
Kansas City, KS 66117
800/255-4255 or 913/281-2700
- B. Diedrich Technologies, Inc.
7373 South 6th Street
Oak Creek (Milwaukee), WI 53154
800/323-3565 or 414/764-0058
- C. Watson Bowman Acme Corp.
95 Pineview Drive
Amherst, NY 14278
800/677-4922 or 716/691-7566
- D. Cathedral Stone Products, Inc..
7266 Park Circle Drive
Hanover, MD 21076
800/684-0901 or 410/782-9150

2.2 MATERIALS

- A. Job-Mixed Detergent Solution: Solution prepared by mixing 3 oz. of trisodium phosphate (TSP), 1 oz. of laundry detergent (Tide, All, etc.), 1 quart of 5 percent sodium hypochlorite (bleach), and 3 quarts of warm water for each gallon of solution required.
- B. Water-Rinsable Chemical Paint Remover: Manufacturer's standard thixotropic water-rinsable solvent formulation for removing paint coatings from masonry, such as: S-301 paint stripper, Cathedral Stone Products, Inc. or approved equal. Spot treat on areas specifically containing paint residue only.

- C. Water: Potable, non-staining and free of oils, acids, alkalis and organic matter.
- D. Ivory soap.

2.3 EQUIPMENT

- A. Brushes: Natural fiber bristle only. The use of wire brushes or steel wool is not permitted.
- B. Garden hose with fan tip nozzles.
- C. Spray Equipment: Provide equipment for controlled spray applications of water and chemical cleaners, if any, at rates indicated for pressure, measured at spray tip, and for volume. Adjust pressure and volume, as required, to ensure that damage to masonry does not result from cleaning methods.
 - 1. For chemical cleaner spray application, provide low-pressure tank or chemical pump suitable for chemical cleaner indicated, equipped with a cone-shaped spray tip.
 - 2. For water spray application, provide a fan-shaped spray tip that disperses water at an angle of not less than 15 degrees.
 - 3. All pressure pumps shall be equipped with properly working pressure gauges.

PART 3 – EXECUTION

3.1 PREPARATION

- A. General: Comply with recommendations of cleaner manufacturer's chemical cleaners for protecting surfaces against damage from exposure to their products.
- B. Protection:
 - 1. Take all necessary precautions and measures to protect surrounding materials on the site, surfaces of the building not being cleaned, adjacent buildings, pedestrians and vehicles from coming in contact with cleaning chemicals, over spray, or runoff. Products used for limestone cleaning may be harmful to painted, polished, glazed, or metallic surfaces. Any damage to materials caused by the cleaning operations is unacceptable and shall be repaired or replaced by the Contractor to the satisfaction of the Architect.
 - 2. Provide protection from water damage to building, structure, or building contents as required.
 - 3. Protect trees and plants around the building from contamination or damage. The Contractor shall be responsible for replacing with new stock, any trees, or grass damaged by the cleaning operations.
 - 4. Test all drains and other water removal systems to assure that drains and systems are functioning properly prior to performing any cleaning operations.
 - 5. Carefully monitor limestone and mortar joints during mock-up preparation. Adjust mix and spray pressures so damage will not occur to existing construction.
 - 6. Protect adjacent surfaces from contact with alkali chemical cleaners by covering them either with liquid strippable masking agent or polyethylene film and waterproof masking tape.
- C. Approach cleaning in a graduated manner, proceeding from the least strong methods to the strongest methods.

3.2 GENERAL CLEANING

- A. It is preferred to utilize the Secretary of the Interior Standards for Rehabilitation to clean masonry, utilizing the gentlest means possible. The following method shall be utilized initially to determine if the desired results can be achieved:
 - 1. Clean masonry with clean water with pressure sprayer at 400 psf.
 - 2. If additional cleaning is required, clean with water and Ivory soap.
 - 3. Apply biocide such as ProSoCo product for control of bacterial growth.
- B. Perform each cleaning method indicated in a manner that results in a uniform coverage of all surfaces, including corners, moldings and interstices and that produces an even effect without streaking or damaging limestone surfaces.
- C. Removing Plant Growth: Completely remove plant, moss and any shrub growth from stone surfaces. Carefully remove plants, creepers and vegetation by cutting at roots and allowing to dry as long as possible prior to removal. Remove loose soil or debris from open masonry joints to whatever depth it occurs.
- D. Dilute stone cleaner with water, in strict accordance to manufacturer's written instructions, or use appropriate dilution based on sample panel cleaning. When diluting, always pour water into empty bucket first, then carefully add concentrate. Handle in rubber or polyethylene buckets only.
- E. After protecting all non-stonework surfaces, thoroughly wet the area to be cleaned.
- F. Water Application Methods: Where water methods are indicated, comply with the following:
 - 1. Prolonged Spraying: Soak surfaces by applying water continuously and uniformly to a limited area for the predetermined time period. Apply water at low pressures and volumes in multiple fine sprays using perforated hoses or multiple spray nozzles. Erect a protective enclosure constructed of polyethylene sheeting to cover area being sprayed.
 - 2. Spray Applications: Spray-apply water to limestone surfaces to comply with requirements predetermined for location, purpose, water temperature, pressure, volume and equipment. Unless otherwise indicated, hold spray nozzle no less than 6 inches from surface of limestone masonry and apply water from side to side in overlapping bands to produce uniform coverage and an even effect.
 - a. Low –pressure spray: 100 to 200 psi, 3 to 6 gal. per minute.
- G. Chemical Cleaner Application Methods: Apply chemical cleaners to stone masonry surfaces to comply with chemical manufacturer's recommendations using brush or spray applications methods, at Contractor's option, unless otherwise indicated. Do not allow chemicals to remain on surface for periods longer than those indicated or recommended by the manufacturer.
 - 1. Spray Application: Apply chemical cleaner solution liberally using low pressure spray (50 psi), roller or densely filled (tampico) masonry washing brush. Do not apply restoration cleaner with high pressure spray.
 - 2. Reapplying Chemical Cleaners: Do not apply chemical cleaners to same stone masonry surfaces more than twice.
 - 3. Rinse off chemical residue and soil by working upwards from bottom to top of each treated area at each stage or scaffold setting.

3.3 CLEANING MASONRY

A. Cold Water Wash: Clean surfaces by the following procedure:

1. Wet masonry with prolonged spraying for predetermined duration.
 - a. Continuous spraying until surface encrustation has softened sufficiently to permit its removal by water wash.
 - b. Remove soil softened surface encrustations from masonry by applying cold water at low pressure spray.
 - c. Stop process immediately if masonry or mortar are damaged. Notify architect.

B. Detergent Cleaning: Clean masonry surfaces with a detergent solution applied as follows:

1. Wet masonry with cold water applied by low pressure spray.
2. Scrub masonry with detergent solution using medium-soft brushes until soil is thoroughly dislodged and can be removed by rinsing. Use small brushes, as required, to remove soil from mortar joints and crevices. Dip brush in solution often to ensure adequate fresh detergent and that limestone remains wet.
3. Rinse stone masonry with cold water with low-pressure spray to remove detergent solution and soil.
4. Repeat cleaning procedure where required to produce the effect established by the approved mockup.
5. Remove bulk of acidic gel cleaner by squeegeeing into containers for disposal.
6. Rinse masonry with cold water to remove chemicals and soil applied with low-pressure spray.
7. Repeat cleaning procedure where required to produce the effect established by the mockup. Do not apply more than twice.
8. Stop process immediately if masonry or mortar are damaged. Notify architect.

C. Paint Removal with Water-Rinsable Chemical Paint Remover: Remove paint from masonry surfaces as follows:

1. Apply thick coating of water-rinsable chemical paint remover to paint masonry with natural-fiber cleaning brush, deep-nap roller or large paint brush.
2. Allow chemical paint remover to remain on surface of masonry for time period recommended by the manufacturer and established by mockup. Agitate periodically with a stiff-bristle brush.
3. Remove chemical and paint residue by rinsing with cold water as a low-pressure spray.

END OF SECTION 042140

SECTION 079200 - JOINT SEALANTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

1. Silicone joint sealants.
2. Polyurethane and urethane joint sealants.
3. Polysulfide joint sealants.
4. Latex and acrylic latex joint sealants.
5. Polyisobutylene and butyl sealants.

- B. Related Sections:

1. Division 04 Section "Masonry" for masonry control and expansion joint fillers and gaskets.

- C. Safety Precautions:

1. The work specified herein requires knowledge of older materials and methods and a high degree of skill to execute properly. This work should be performed only by an experienced, prequalified Contractor.
2. Particular care must be taken not to obscure, alter, or damage features from the restoration period in the process of undertaking work to meet code and energy requirements.

1.3 SUBMITTALS

- A. Product Data: For each joint-sealant product indicated.
- B. Samples for Initial Selection: Manufacturer's color charts consisting of strips of cured sealants showing the full range of colors available for each product exposed to view.
- C. Samples for Verification: For each kind and color of joint sealer required, provide samples with joint sealants in 1/2 inch wide joints formed between two 6 inch long strips of material matching the appearance of exposed surfaces adjacent to joint sealants.
- D. Qualification Data: For qualified installer and testing agency.
- E. Product Certificates: For each kind of joint sealant and accessory, from manufacturer.
- F. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, indicating that sealants comply with requirements.
- G. Warranties: Sample of special warranties.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
- B. Source Limitations: Obtain each kind of joint sealant from single source from single manufacturer.
- C. Product Testing: Test joint sealants using a qualified testing agency.
 - 1. Testing Agency Qualifications: An independent testing agency qualified according to ASTM C 1021 to conduct the testing indicated.
 - 2. Test according to Sealant Waterproofing and Restoration Institute's (SWRI's) Sealant Validation Program for compliance with requirements specified by reference to ASTM C 920 and ASTM C 719 for adhesion and cohesion under cyclic movement, adhesion-in-peel, and indentation hardness.

1.5 PROJECT CONDITIONS

- A. Do not proceed with installation of joint sealants under the following conditions:
 - 1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer or are below 40 deg F.
 - 2. When joint substrates are wet.
 - 3. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
 - 4. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

1.6 WARRANTY

- A. Special Installer's Warranty: Manufacturer's standard form in which Installer agrees to repair or replace joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
 - 1. Warranty Period: Two (2) years from date of Substantial Completion.
- B. Special Manufacturer's Warranty: Manufacturer's standard form in which joint-sealant manufacturer agrees to furnish joint sealants to repair or replace those that do not comply with performance and other requirements specified in this Section within specified warranty period.
 - 1. Warranty Period: Five (5) years from date of Substantial Completion.
- C. Special warranties specified in this article exclude deterioration or failure of joint sealants from the following:
 - 1. Movement of the structure caused by structural settlement or errors attributable to design or construction resulting in stresses on the sealant exceeding sealant manufacturer's written specifications for sealant elongation and compression.
 - 2. Disintegration of joint substrates from natural causes exceeding design specifications.
 - 3. Mechanical damage caused by individuals, tools, or other outside agents.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

- A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.
- B. Products: Subject to compliance with requirements, provide one of the products indicated or approved equal of each type:
 - 1. Caulk: Percora Corp., one part acrylic latex AC-20.
 - 2. Sealant: Pecora Corp., Thiokol polysulfide based synthetic rubber GC-9.
- C. Colors of Exposed Sealants: As selected by Architect from manufacturer's full available range.

2.2 ELASTOMERIC JOINT-SEALANTS

- A. Elastomeric Sealant Standard: Comply with ASTM C 920 and other requirements indicated for each of types of products listed.
- B. Stain-Test-Response Characteristics: Where elastomeric sealants are specified to be nonstaining to porous substrates, provide products that have undergone testing according to ASTM C 1248 and have not stained porous joint substrates indicated for this Project.

2.3 EXTERIOR SEALANT APPLICATIONS AND TYPES

- A. Masonry to Masonry: Typically refer to Division 04 Sections for mortar applications; this specification is intended for applications specifically indicated not to be addressed with mortar application.
 - 1. For joints 1/8 inch (3 mm) to 1/4 inch (6 mm) in width: Polyisobutylene where indicated: ASTM C 920 for masonry use.
 - 2. For joints 1/4 inch and wider: Polyurethane, single- or multicomponent, ASTM C 920, Type M, Grade NS for Use NT.
- B. Masonry to Wood
 - 1. Polyurethane, single- or multi-component, ASTM C 920, Type M, Grade NS for Use NT.
- C. Masonry to Metal
 - 1. Polyurethane, single- or multi-component, ASTM C 920, Type M, Grade NS for Use NT.
- D. Metal to Metal
 - 1. Refer to Division 05 Section "Decorative Formed Metal".
- E. Exterior Paving
 - 1. Refer to Division 32 Section "Concrete Paving Joint Sealants".

2.4 SILICONE JOINT SEALANTS

- A. Single-Component, Nonsag, Neutral-Curing Silicone Joint Sealant: ASTM C 920, Type S, Grade NS, Class 25, for Use NT.

- 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:

- a. Pecora Corporation; 898.

2.5 LATEX AND ACRYLIC LATEX JOINT SEALANTS

- A. Latex Joint Sealant: Acrylic latex or siliconized acrylic latex, ASTM C 834, Type OP, Grade NF.

- 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:

- a. Pecora: A 208 or Tilt-Seal.

- b. Tremco; Tremflex 834.

2.6 JOINT SEALANT BACKING

- A. General: Provide sealant backings of material that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.
- B. Cylindrical Sealant Backings: ASTM C 1330 any type, as approved in writing by joint-sealant manufacturer for joint application indicated, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.
- C. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint. Provide self-adhesive tape where applicable.

2.7 MISCELLANEOUS MATERIALS

- A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
- B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.
- C. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting joint-sealant performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions and the following requirements:
 - 1. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, paints (except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
 - 2. Clean porous joint substrate surfaces by brushing, grinding, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealants. Remove loose particles remaining after cleaning operations above by vacuuming or blowing out joints with oil-free compressed air. Porous joint substrates include the following:
 - a. Concrete.
 - b. Masonry.
 - c. Unglazed surfaces of ceramic tile.
 - d. Exterior insulation and finish systems.
 - e. Metal.
 - f. Glass.
 - 3. Remove laitance and form-release agents from concrete.
 - 4. Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants. Nonporous joint substrates include the following:
 - a. Metal.
 - b. Glass.
 - c. Porcelain enamel.
 - d. Glazed surfaces of ceramic tile.
- B. Joint Priming: Prime joint substrates where recommended by joint-sealant manufacturer or as indicated by preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.
- C. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.

3.3 INSTALLATION OF JOINT SEALANTS

- A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.
- B. Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.

- C. Install sealant backings of kind indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
 - 1. Do not leave gaps between ends of sealant backings.
 - 2. Do not stretch, twist, puncture, or tear sealant backings.
 - 3. Remove absorbent sealant backings that have become wet before sealant application and replace them with dry materials.
- D. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.
- E. Install sealants using proven techniques that comply with the following and at the same time backings are installed:
 - 1. Place sealants so they directly contact and fully wet joint substrates.
 - 2. Completely fill recesses in each joint configuration.
 - 3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.
- F. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified in subparagraphs below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.
 - 1. Remove excess sealant from surfaces adjacent to joints.
 - 2. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.
 - 3. Provide concave joint profile per Figure 8A in ASTM C 1193, unless otherwise indicated.
 - 4. Provide flush joint profile where indicated per Figure 8B in ASTM C 1193.
 - 5. Provide recessed joint configuration of recess depth and at locations indicated per Figure 8C in ASTM C 1193.
 - a. Use masking tape to protect surfaces adjacent to recessed tooled joints.

3.4 CLEANING

- A. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.

3.5 PROTECTION

- A. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work.

END OF SECTION 079200

SECTION 081195 – REPAIR OF HISTORIC WOOD DOORS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. These procedures include guidance on repairing historic wood doors. Doors for this project scheduled to remain shall be repaired to fullest extent possible. Most doors will require all procedures described below to result in a restored and fully functional door. Parts of this specification were developed from U.S. General Services Administration specifications and shall serve as reference. The Contractor shall have full responsibility for materials and methods.
- B. Safety Precautions:
 - 1. The work specified herein requires knowledge of older materials and methods and a high degree of skill to execute properly. This work should be performed only by an experienced, prequalified Contractor.
- C. Related sections include the following:
 - 1. Division 02 Section "Selective Structure Demolition".
 - 2. Division 06 Section "Chemically Removing Paint From Wood Features".
 - 3. Division 09 Section "Painting".
- D. The guidelines herein should be reviewed prior to performing this procedure and should be followed, when applicable.

1.3 REFERENCES

- A. AWI Quality Standard: Comply with applicable requirements of "Architectural Woodwork Quality Standards" published by the Architectural Woodwork Institute (AWI), except as otherwise indicated.
- B. For additional information on the history and properties of paint along with general procedures for paint removal, see 09900-01-S, "Preservation Brief 28, Painting Historic Interiors", and 09910-01-S, "Preservation Brief 10, Exterior Paint Problems on Historic Woodwork" as published by the National Park Service, U.S. Department of the Interior.

1.4 RESETTling HINGE MORTISE

- A. This procedure includes guidance on shimming a hinge mortise to bring it flush with the surface of the door or frame.
- B. If the door has a springy resistance to closure, observe for paint buildup or a poorly executed repair. If an excessive amount of material was removed when hinge mortise was being cut or repaired, the hinge may

have worked loose.

- C. For guidance on resecuring loose hinges that cause the door to bind, see “Repair of Binding door”.

1.5 REPAIR OF BINDING DOOR

- A. This procedure includes guidance on inspecting and repairing a door that binds or rubs unnecessarily. Some causes of a binding door may include paint build-up, thermal expansion or swelling of the wood, loose hinges, a worn hinge pin, or an open joint between the rail and stile.

1.6 REPAIR OF WOOD DAMAGE AT LATCHSET AND HINGE LOCATIONS

- A. This procedure includes guidance on inspecting and repairing a door that has experienced damage at and around the latchset and hinges due to door being forced open as well as numerous repairs over the years. The result consists of split, splintered, gouged and broken wood.

1.7 SYSTEM DESCRIPTION – REPAIR OF BINDING DOOR

- A. The parts of the door assembly involved in this procedure are the door unit and door frame.
 - 1. The door unit is composed of a head rail, lock rail, bottom rail, lock stile, hinge stile, muntins, and panels. The door unit assembly is held together by mortise and tenon joints.
 - 2. The frame is composed of the jambs, head, stop, and blocking. The cuts made on door and jamb at hinge side are the hinge mortise and the cut made on the jamb at latch side is the strike mortise.
- B. Ideally, a door should hang with a 1/16 to 1/8 inch uniform gap around the door between the door and the jamb and between the door and the head.
- C. A door should swing smoothly and silently on its hinges, latch firmly, and remain fixed when closed.

1.8 QUALITY ASSURANCE

- A. Installer Qualifications: Arrange for repair of architectural woodwork by a firm that can show successful experience in repair of architectural woodwork items similar in type and quality to those required for this project.

PART 2 – PRODUCTS

2.1 MATERIALS

- A. Scrap wood for shims; or prefabricated plastic or metal shims.
- B. Wood screws, dowels, wedges, glue, and filler.

2.2 EQUIPMENT

- A. Screwdriver, drill, vice, plane, clamps, and level.

- B. Utility knife or hack saw to cut shims.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. **RESETTING HINGE MORTISE:** To discern the door problem, observe the door open and close a few times. Note the location of any binding or rubbing. Note also if doors bind inconsistently from top to bottom or hinge side to latch side.
- B. **REPAIR OF BINDING DOOR:** To discern the problem, observe the door operate as it is opened and closed a few times. Note the location of any binding or rubbing, or if doors bind inconsistently from top to bottom or hinge side to latch side.
 - 1. If the door binds evenly along the latch side and head, the problem may be caused by paint build-up, or seasonal expansion.
 - 2. If the door binds along the top of the latch side and/or on the floor, the problem may be a loose upper or lower hinge, a worn hinge pin, or an open joint between the upper rail and stile.
 - a. A loose lower hinge is usually a problem with wide throw hinges on entry doors, causing the door to sag. This is evident by the door resting against the jamb on the hinge side.
 - b. The joint between the upper rail and the stile may be forced open by the weight of the door or warping in the stile or rail.
 - 3. If the door drags on the floor and a gap exists on the latch side of the head or when a door binds at the latch side of the head and a gap exists at the floor, the cause is building settlement. This situation can be differentiated from loose hinges by the gap between top of door and head jamb.
- C. **REPAIR OF WOOD DAMAGE AT LATCHSET AND HINGE LOCATIONS:** Observe extent of damaged area. Remove door hardware and determine if loose wood can be reset and if additional reinforcement will be required.

3.2 ERECTION, INSTALLATION, APPLICATION - RESETTNG HINGE MORTISE:

- A. If problem is paint buildup, strip paint from hinges and involved surfaces of door and frame.
 - 1. To remove paint from wood, sand the area around hinges by hand using sanding blocks or sponges; repaint.
 - 2. To remove paint from metal hinges, soak hinges in ammonia to loosen paint; remove paint with metal scraper and brush; repaint.
- B. If problem is more serious, remove door and hinges from jamb using the procedures below. Free all hinge pins before removing any of them. Remove from bottom hinge to top (the top supports most of the weight).
 - 1. Close door and place a wedge under the door to take weight off hinges.
 - 2. Tap pins gently up and out with hammer and screwdriver. Apply penetrating oil if pins resist.
 - 3. If a pin still resists, grasp finial of hinge pin gently and carefully twist with pliers to break the bond. Try tapping pin out again.
 - 4. If the pin still resists, remove bottom finial and force pin out from bottom with punch and hammer. -OR- Unscrew hinge from the jamb. Note: A second person must support door during

hinge removal.

- C. Cut scrap of thin wood to the exact dimensions of the mortise so that hinge will be flush with jamb or use prefabricated plastic or metal shims.
- D. Put the shim in place and replace hinges and door.

3.3 ERECTION, INSTALLATION, APPLICATION - REPAIR OF BINDING DOOR:

- A. For paint build-up: This is typically the cause of binding doors.
 - 1. If the paint is loose and flaking, carefully remove it from the mating surfaces using a paint scraper.

TAKE PARTICULAR CARE NOT TO GOUGE THE WOOD SURFACES.

- 2. For paint build-up that cannot be easily removed using a scraper, remove excess paint using heat or chemical removers.
- B. For a door that swells from seasonal expansion: The door must be carefully removed from the frame, planed, and reinstalled. Planing should be performed during the peak of the humid season when the wood has expanded fully.
- C. For a loose upper or lower hinge:
 - 1. Check for loose top hinge by opening the door partially and pulling up on the knob and pushing in toward the top. If the hinge moves, it is loose.
 - 2. Tighten screws as much as possible. If the screw holes have been stripped, install longer screws, or drill new pilot holes for screws.
 - a. For stripped screw holes in the door STILE: Resecure the hinge to the stile using longer screws. This method is suitable for the door stile because the stile is made of solid wood and can accommodate longer screws.

NOTE: SCREW HEADS MUST BE SMALL ENOUGH TO FIT FLUSH WITH HINGE LEAVES. A PROTRUDING SCREW WILL UNDO REPAIR BY FORCING HINGE OUT OF ITS MORTISE.

- b. For stripped screw holes in the JAMB: Resecure the hinge to the jamb by filling in existing holes and drilling new screw holes.

NOTE: INSTALLING LONGER SCREWS IS GENERALLY NOT ADEQUATE FOR RESECURING THE HINGE IN THE JAMB AS THE JAMB IS TYPICALLY NOT THICK ENOUGH (3/4") TO ACCOMMODATE LONGER SCREWS.

- 1) Remove the hinge and drill out existing screw holes in the jamb.
 - 2) Insert glue-soaked dowel into the hole and allow to dry.
 - 3) Re-drill pilot holes for new screws and re-install hinge.
- D. For a worn hinge pin:
 - 1. Check for worn hinge pin by lifting and pushing door. If there is no movement in hinge leaves but knuckle moves or is misaligned, the hinge pin is worn.
 - 2. Make sure pin is fully inserted. If needed, straighten bent hinge pin or remove hinge and straighten bent knuckles with vice.
 - 3. If the pin is all the way in and knuckles are still loose, the pin or whole hinge must be replaced.

Replacement pin and/or hinge should match the original.

- E. For an open joint between upper rail and stile: Remove paint and any filler or caulk from previous repair. Before proceeding, understand joint type.
1. To repair a through tenon joint, remove old wedges and work joint open to dislodge glue.
 - a. Glue all exposed areas of tenon joint and clamp tightly.
 - b. Make new wedges slightly longer than needed and drive glue-soaked wedges in tight. Remove any excess glue.
 - c. When the glue dries, chisel off ends of wedges flush with the edge of door.
 2. To repair a rail tenon joint (tenon reaches only partially through the stile):
 - a. Reglue all exposed areas of joint and clamp tightly.
 - b. Peg connection through stile and tenon with wood dowel. The dowel will show on the surface of the door. -OR- Countersink 2 long wood screws through side of stile and face of tenon. Fill the hole with tinted wood filler.
- F. For a gap at the top due to building settlement:
1. Check for frame squareness with level at head and jambs.
 2. If gap between door and head is small enough so that one cannot see through the frame into other room, carefully remove the door from its frame, plane the bottom of door and leave the frame out of line.
 3. If one can see through the gap into other room, the frame must be rebuilt.
- G. For a gap at the bottom due to building settlement:
1. Check for frame squareness with level at head and jambs.
 2. If not level, the door must be reframed.

NOTE: PLANING THE DOOR IS NOT AN OPTION. PLANING THE NARROWER TOP RAIL OF THE DOOR WOULD LEAVE IT DISTORTED AND UNSIGHTLY AND WEAKENED IF THE TENON IS EXPOSED.

3.4 REPAIR, INSTALLATION, APPLICATION - REPAIR OF WOOD DAMAGE AT LATCHSET AND HINGE LOCATIONS:

- A. If severed pieces are to be re-attached, glue in place with a mixture of consolidant and filler.
- B. When the consolidant has cured, fill the voids in the surface with epoxy filler (wood-epoxy putty):
1. Mix the two part epoxy filler to achieve the consistency of a glazing compound that can be worked with a putty knife.
 2. Apply filler to the surface:
 - a. For large voids, apply filler in 1" thick layers.
 - b. Build up filler layers slightly above the wood surface to allow for planing and sanding smooth after curing.
 3. When the filler has cured, sand the surface smooth.
- C. If damage is too severe to repair with the above method, cut out the minimum amount of damaged area necessary. Repair the area with like materials and blend finish with adjacent areas.

END OF SECTION 081195

SECTION 148000 - SCAFFOLDING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Design, construction and maintenance of a complete scaffolding of the Leon County 1913 Jail building only.
- B. Related Sections:
 - 1. Division 01 Sections "Restoration Project Procedures", "Historical Treatment Procedures" and "Quality Requirements" for procedures and requirements.
 - 2. Division 04 Sections for masonry work.
- C. Optional Access:
 - 1. This section will only apply if the Contractor elects to conduct overhead work with the use of scaffolding. The Contractor may schedule work to be completed by use of ladders or mechanical equipment.

1.3 SUBMITTALS

- A. Qualification Data: Firms with at least five (5) years of successful experience in design and erection of scaffolding.
- B. Proposed Protection Measures: Submit informational report, including Drawings, that indicates the measures proposed for protecting individuals and property, for environmental protection, for dust control and, for noise control. Indicate proposed locations and construction of barriers.
 - 1. Adjacent Buildings: Detail special measures proposed to protect adjacent historic buildings to remain including means of egress from those buildings.
- C. Preconstruction Photographs or Video: Show existing conditions of adjoining construction and site improvements, including finish surfaces that might be misconstrued as damage caused by scaffolding operations. Comply with Division 01 Section "Photographic Documentation." Submit before the Work begins.
- D. Shop Drawings: Not required.
- E. Qualification Data: For qualified erector.

1.4 QUALITY ASSURANCE

A. Regulatory Requirements:

1. Comply with governing EPA and NIOSH regulations before beginning construction.
2. Comply with all applicable regulations of authorities having jurisdiction.

B. Standards: Comply with OSHA 1910. 28 Scaffolding Regulations.

C. Preconstruction Conference: Conduct conference at Project site.

1. Review methods and procedures related to scaffolding construction including, but not limited to the following:
 - a. Inspect and discuss condition of construction to be scaffolded.
 - b. Review structural load limitations of existing structures.
 - c. Review and finalize building scaffolding schedule and verify availability of scaffolding personnel, equipment, and facilities needed to make progress and avoid delays.
 - d. Review and finalize protection requirements.
 - e. Review procedures for noise control and dust control.
 - f. Review procedures for protection of adjacent buildings.
2. Require representatives of each entity directly concerned with use of scaffolding structure to attend, including the following:
 - a. Construction Manager or General Contractor.
 - b. Masonry contractor.

1.5 PROJECT CONDITIONS

A. Building to have scaffolding will be vacant during construction.

B. Buildings immediately adjacent to scaffolding area will be occupied. Conduct scaffolding construction so operations of occupied buildings will not be disrupted.

1. Provide not less than 72 hours' notice of activities that will affect operations of adjacent occupied buildings.

C. Owner assumes no responsibility for building and structure to have scaffolding.

1. Conditions existing at time of inspection for bidding purpose will be as found.

PART 2 - PRODUCTS

2.1 SCAFFOLDING SYSTEM

A. All scaffolding components including, but not limited to: construction netting, planking, supports, outriggers, protective platforms, towers, hoists and tent (as required) shall be as designed by a qualified licensed Professional engineer. Coordinate design with requirements of other trades using the system. Provisions shall be made for making minor modifications during project construction.

B. Scaffolding system shall be maintained throughout duration of construction until project is substantially

complete. At Substantial Completion, the scaffolding system shall be dismantled and removed from the project site by the scaffolding contractor.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Perform a survey of condition of building to determine whether scaffolding any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during building scaffolding construction operations.
- B. Verify that hazardous materials have been remediated before proceeding with building scaffolding construction operations.
- C. Examine the existing roof that scaffolding will be erected. Provide adequate protection of the existing roof.

3.2 PROTECTION

- A. Existing Facilities: Protect adjacent roofs, walkways, loading docks, building entries, and other building facilities during scaffolding construction operations. Maintain exits from existing buildings.
- B. Existing Utilities: Maintain utility services to remain and protect from damage during scaffolding construction operations.
 - 1. Do not interrupt existing utilities serving adjacent occupied or operating facilities unless authorized in writing by Owner and authorities having jurisdiction. All costs of repairs to existing utilities serving adjacent occupied or operating facilities damaged as part of scaffolding construction operations shall be the full responsibility of the scaffolding contractor.
- C. Temporary Protection: Erect temporary protection, such as walks, fences, railings, canopies, and covered passageways, where required by authorities having jurisdiction and as indicated.
 - 1. Protect adjacent historic buildings and facilities from damage due to scaffolding construction activities.
 - 2. Protect existing site improvements, appurtenances, and landscaping to remain.
 - 3. Erect a scaffolding enclosure fence before construction operations begin, to prevent people and animals from easily entering scaffolding except by entrance gates. Maintain security by limiting number of keys and restricting distribution to authorized personnel.
 - 4. Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent historic buildings and facilities to remain.
 - 5. Provide protection to ensure safe passage of people around building area and to and from occupied portions of adjacent historic buildings and structures.
 - 6. Protect walls, windows, roofs, and other adjacent exterior construction that are to remain and that are exposed to building scaffolding construction operations.
 - 7. Erect and maintain dustproof partitions and temporary enclosures to limit dust, noise, and dirt migration to occupied portions of adjacent historic buildings.

3.3 SCAFFOLDING CONSTRUCTION

- A. Site Access and Temporary Controls: Conduct building scaffolding construction and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
 - 1. Do not close or obstruct streets, walks, walkways, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by authorities having jurisdiction.
 - 2. Comply with governing environmental-protection regulations.

3.4 MAINTENANCE

- A. Scaffolding System: Scaffolding contractor shall maintain a safe scaffold system at all times until construction is substantially complete.
- B. Maintenance shall consist of the following at minimum: tie loose planks, tie-up netting, change tower light bulbs, maintain guard rail system and remove debris and sweep where other trades do not. Changes in construction of the Scaffolding system may be executed only by the scaffolding contractor with approval of the design licensed Professional Engineer.

3.5 SCAFFOLD INSPECTION

- A. Provide inspection immediately should any alterations to any scaffolding system components occurs to facilitate Work.
- B. Scaffold supervisor shall be qualified and experienced in scaffolding construction. Contractor shall have the scaffolding system inspected on a daily basis by the scaffold supervisor. Any scaffolding needing corrective work shall be addressed immediately. All necessary repairs and/or rework of the scaffold, including moving, adjusting or altering, shall be the responsibility of the scaffolding contractor.

3.4 REPAIRS

- A. Promptly repair damage to adjacent historic buildings caused by scaffolding construction operations.

3.5 CLEANING

- A. Clean adjacent structures and improvements of dust, dirt, and debris caused by building scaffolding construction operations. Return adjacent areas to existing condition or better, before building scaffolding construction operations began.

END OF SECTION 148000

ELECTRICAL RELOCATION

PROJECT PURPOSE

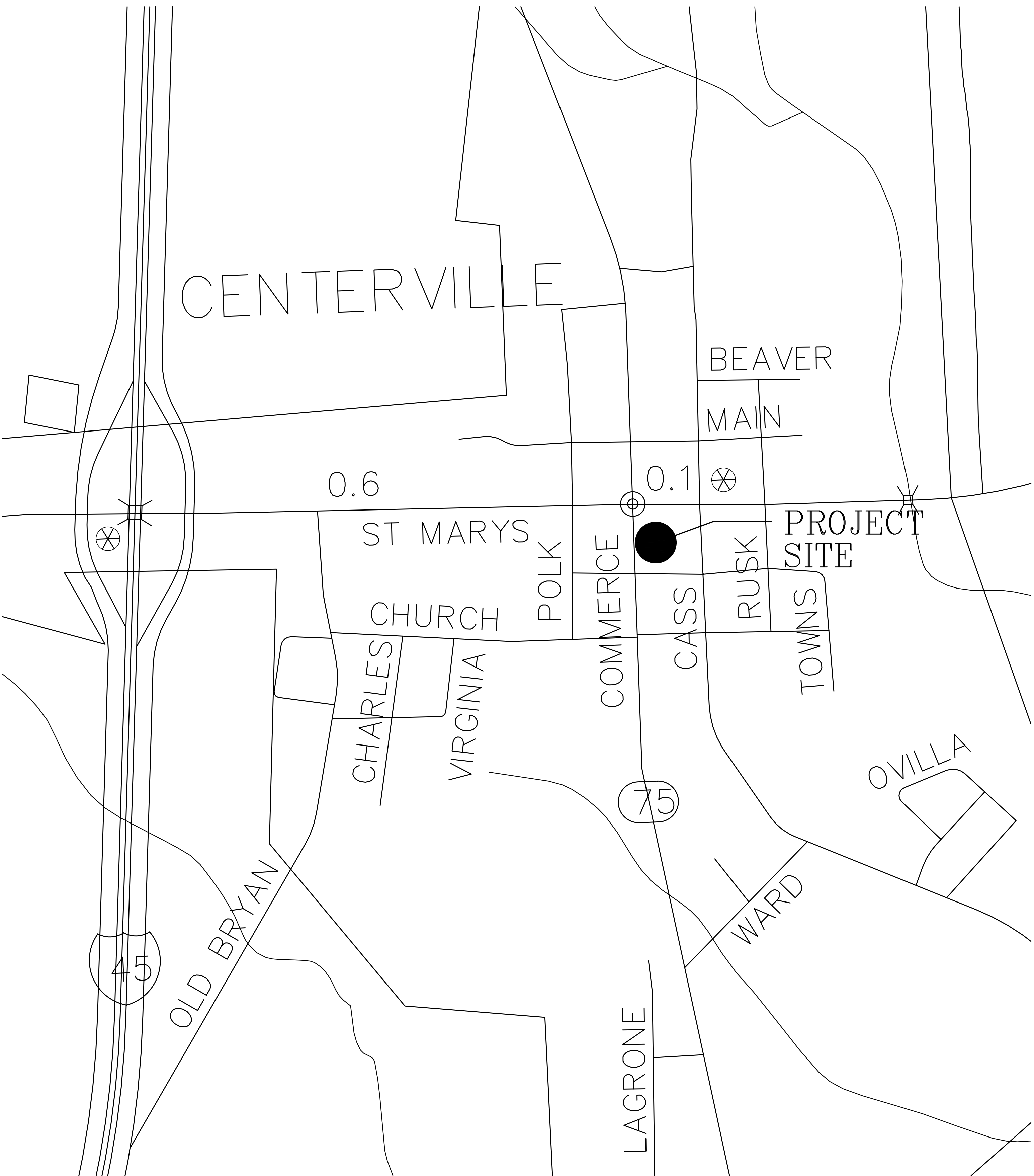
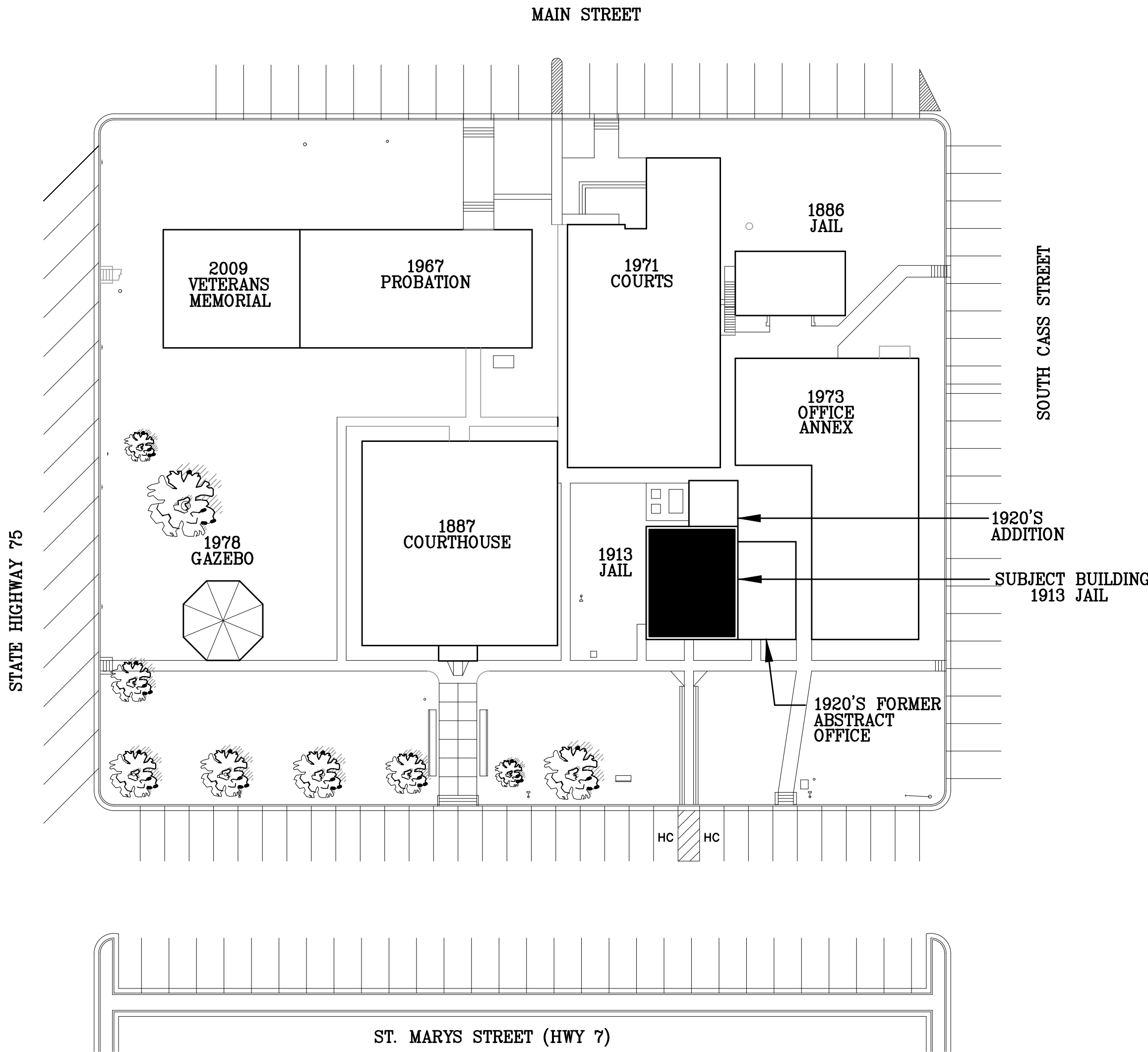
THE PURPOSE OF THIS PROJECT IS TO REMOVE UNSIGHTLY OVERHEAD ELECTRIC WIRES AND RELOCATE UNDERGROUND TO FACILITATE COMPLETION OF MASONRY RESTORATION. INAPPROPRIATE SURFACE MOUNTED ITEMS ARE TO BE REMOVED. THE FRONT DOOR CAN ONLY BE RESTORED AFTER ELECTRICAL RELOCATION.

HISTORY

LEON COUNTY WAS CREATED IN 1846. THE ORIGINAL COUNTY SEAT WAS LOCATED IN THE TOWN OF LEONA. THE COUNTY SEAT WAS RELOCATED TO CENTERVILLE IN 1850, THE FIRST JAIL MAY HAVE BEEN CONSTRUCTED SHORTLY THEREAFTER. A NEW JAIL WAS BUILT IN 1887, ABOUT THE SAME TIME AS THE COURTHOUSE. THE 1887 JAIL WAS CONSTRUCTED OF BRICK MASONRY, TWO STORY, AND REMAINS ON THE SQUARE TODAY.

THIS JAIL SERVED THE COUNTY WELL UNTIL 1910 WHEN AN ESCAPE WAS MADE BY A FATHER AND SON. BOTH WERE CAPTURED BUT THE FATHER DIED THE NEXT DAY OF GUNSHOT WOUNDS. IN 1912 THE COUNTY DECIDED TO CONSTRUCT A NEW JAIL.

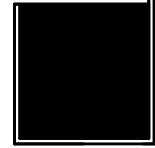
COMPLETED IN 1913 BY SOUTHERN STANDARD STEEL OF SAN ANTONIO, THE NEW JAIL WOULD SERVE AS THE COUNTY JAIL FOR THE NEXT 56 YEARS. IT WAS SUPPLIED WITH A SECOND FLOOR GALLOWES BUT NO RECORD OF ITS USE WAS FOUND. IT ORIGINALLY CONTAINED SEVEN INDIVIDUAL STEEL CELLS. THE CELL PAIR AND HOLDING ROOM LOCATED ON THE FIRST FLOOR WAS REMOVED LONG AGO. THE REMAINDER OF THE FACILITY RETAINS ALMOST ALL OF ITS ORIGINAL CHARACTER.



02 PROJECT LOCATION MAP
NO SCALE

INDEX OF DRAWINGS

A1.1	GENERAL INFORMATION
A1.2	SITE PLAN
A2.0	FLOOR PLANS
A4.0	EXTERIOR ELEVATIONS
ED200	POWER DEMO PLAN
E200	POWER PLAN
E201	ELECTRICAL SITE PLAN
E300	RISER DIAGRAM
E301	PANEL SCHEDULES
E400	ELECTRICAL SPECIFICATIONS



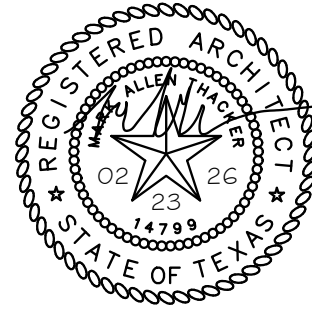
Mark A. Thacker, AIA^{LLC}

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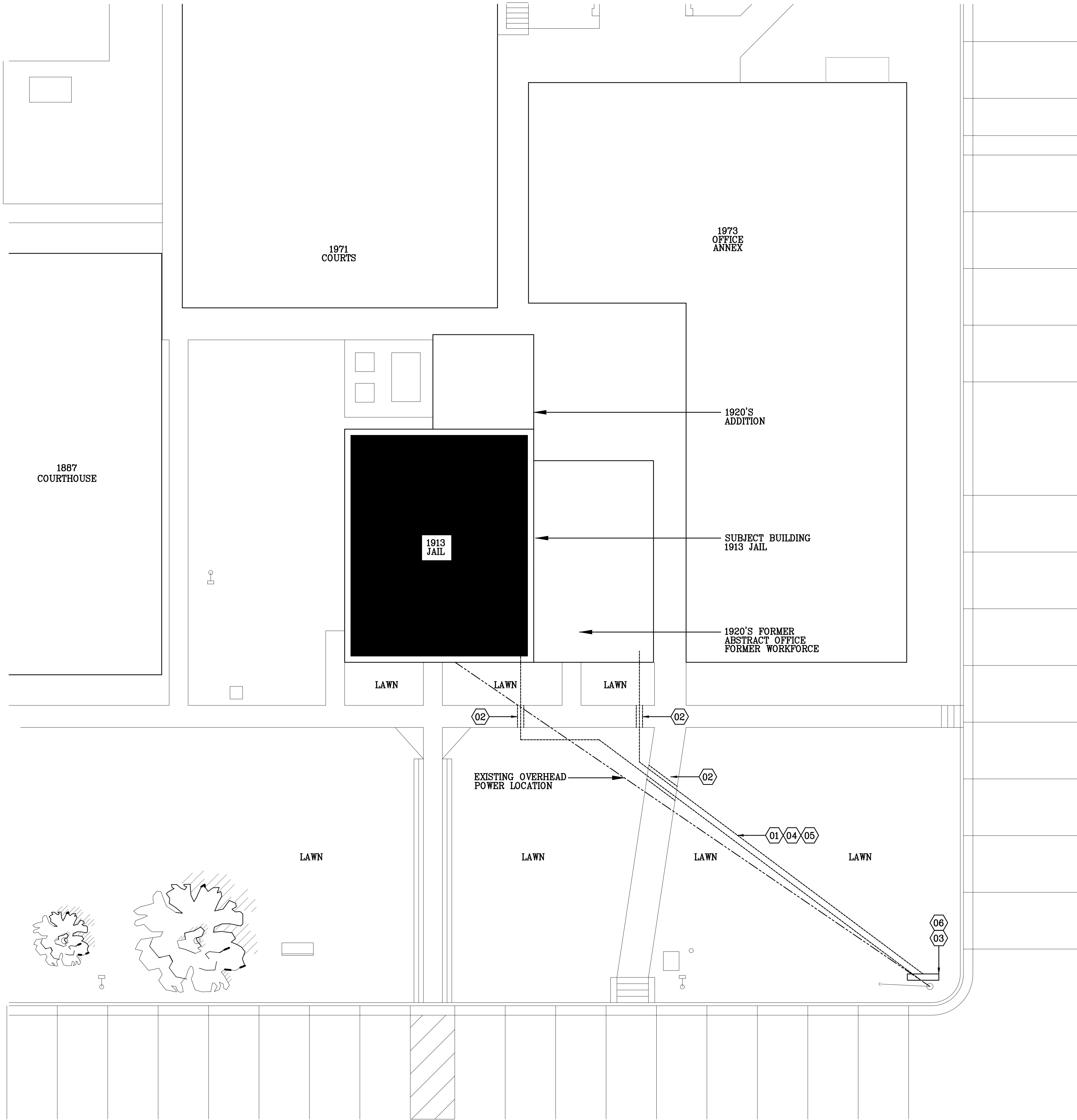


1913 LEON CO. JAIL
ELECTRICAL RELOCATION
CENTERVILLE, TEXAS

GENERAL
INFORMATION

PROJECT NUMBER
16042 B

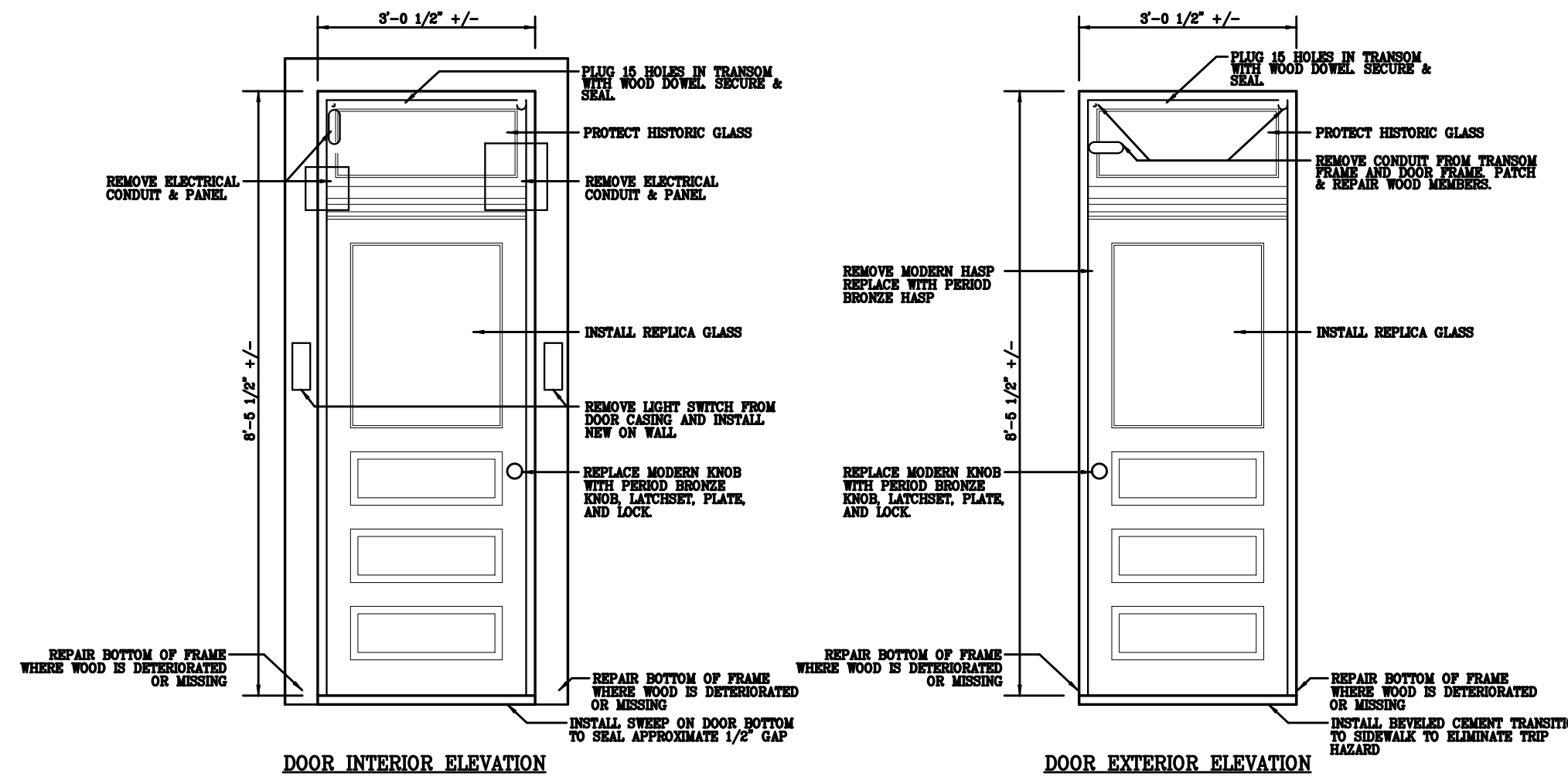
SHEET NUMBER
A1.1



KEYNOTES

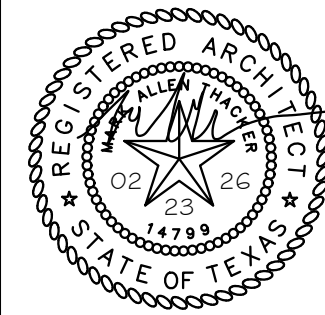
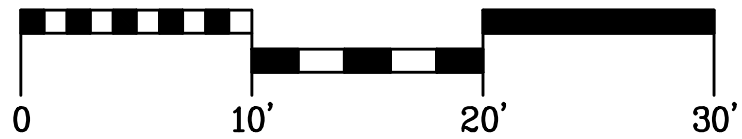
- 01 APPROXIMATE LOCATION OF NEW UNDERGROUND CONDUIT AND CONDUCTOR LOCATION.
- 02 INSTALL SLEEVE UNDER EXISTING CONCRETE WALK FOR NEW POWER CONDUCTORS. DO NOT DAMAGE EXISTING CONCRETE. FILL AND COMPACT BORE.
- 03 NEW MAIN POWER RISER LOCATION. SEE MEP.
- 04 CONTRACTOR IS RESPONSIBLE FOR INVESTIGATION OF UTILITIES WITHIN PATH OF NEW UNDERGROUND ELECTRICAL SERVICE.
- 05 CONTRACTOR IS RESPONSIBLE FOR REPAIR OF LAWN DAMAGED DURING INSTALLATION OF NEW UNDERGROUND ELECTRICAL SERVICE.
- 06 POWER RISER USED FOR SPECIAL EVENTS TO BE RELOCATED TO THE NEW MAIN POWER RISER LOCATION.

SOUTH CASS STREET



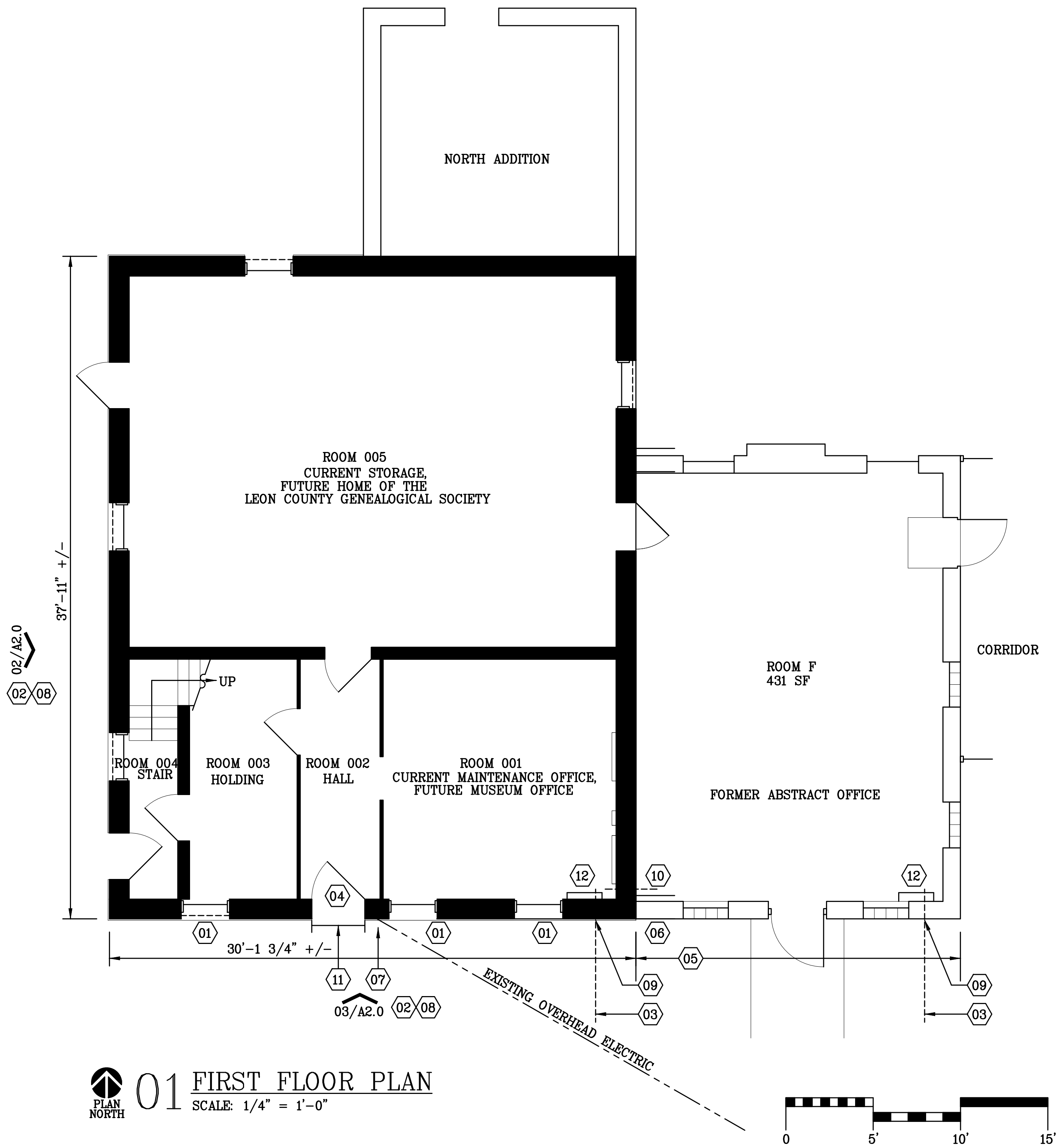
ALTERNATE NO. 01 02 DOOR RESTORATION

SCALE: 1/2" = 1'-0"



- KEYNOTES
- 01 EXISTING HISTORIC RESTORED WINDOW.
 - 02 EXISTING HISTORIC MASONRY HAS BEEN RESTORED WITH EXCEPTION OF MASONRY ADJACENT TO ELECTRICAL CONDUIT AND SURFACE MOUNTED ITEMS.
 - 03 APPROXIMATE LOCATION OF NEW UNDERGROUND POWER LOCATION.
 - 04 ALTERNATE NO. 01. HISTORIC DOOR AND TRANSOM TO BE RESTORED.
 - 05 FORMER ABSTRACT OFFICE. NO WORK UNDER THIS CONTRACT OTHER THAN ELECTRICAL.
 - 06 EXISTING METER AND ELECTRICAL SERVICE TO BE REMOVED. RESTORE MASONRY AFTER REMOVAL.
 - 07 EXISTING METER AND ELECTRICAL SERVICE CONNECTED TO 1913 JAIL TO BE REMOVED.
 - 08 REMOVE ALL CONDUIT, FASTENERS, FIXTURES, AND OTHER ITEMS MOUNTED TO MASONRY. RESTORE MASONRY. SEE SHEET A4.0.
 - 09 UNDERGROUND ELECTRIC SERVICE TO PENETRATE BRICK GRADE BEAM AND RISE UP INTO ROOM 001. A MAIN DISCONNECT AND PANEL BOARD TO BE LOCATED ON WALL. RECONNECT INTERIOR POWER TO THE 1913 JAIL.
 - 10 NEW ELECTRIC SERVICE FROM 1913 JAIL ROOM 001 TO PENETRATE WEST WALL. A NEW PANEL-BOARD IS TO BE INSTALLED IN THE FORMER ABSTRACT OFFICE AND CONNECT TO THE EXISTING ELECTRICAL SYSTEMS.
 - 11 ALTERNATE NO. 01 - ELIMINATE TRIP HAZARD. SEE DETAIL 02/A1.2.
 - 12 NEW ELECTRICAL PANEL. SEE ELECTRICAL DRAWINGS.

- GENERAL NOTES
- 01 REMOVE ANY ORGANIC GROWTH FROM EXISTING MASONRY PRIOR TO REPOINTING.
 - 02 FILL ALL VOIDS WHERE PREVIOUS WALL MOUNTED ITEMS HAVE BEEN REMOVED. REPLACE BRICK CONTAINING VOIDS PREVIOUSLY DRILLED OR CHISELED.
 - 03 REMOVE ALL IRON NAILS, WIRE NAILS, HANGER WIRE AND OTHER ABANDONED OBJECTS ATTACHED OR EMBEDDED IN MASONRY WALLS THAT ARE SCHEDULED FOR RESTORATION.
 - 04 N.I.C. DENOTES PREVIOUSLY COMPLETED OR FUTURE WORK AND IS NOT A PART OF THIS CONTRACT.
 - 05 WHEN REPOINTING COMPLETE, THOROUGHLY CLEAN ALL MASONRY SURFACES. REMOVE ALL MORTAR DROPPINGS AND SPLATTER FROM ADJACENT SURFACES.
 - 06 THE CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING CONSTRUCTION OR INSTALLATIONS DAMAGED DURING THE WORK OF THIS PROJECT. THIS INCLUDES LAWNS AND PLANTINGS.
 - 07 TOOL MASONRY JOINTS TO MATCH PREVIOUSLY REPOINTED JOINTS.
 - 08 CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH POWER PROVIDER AND OWNER TO TRANSFER POWER FROM OVERHEAD TO UNDERGROUND SERVICE.





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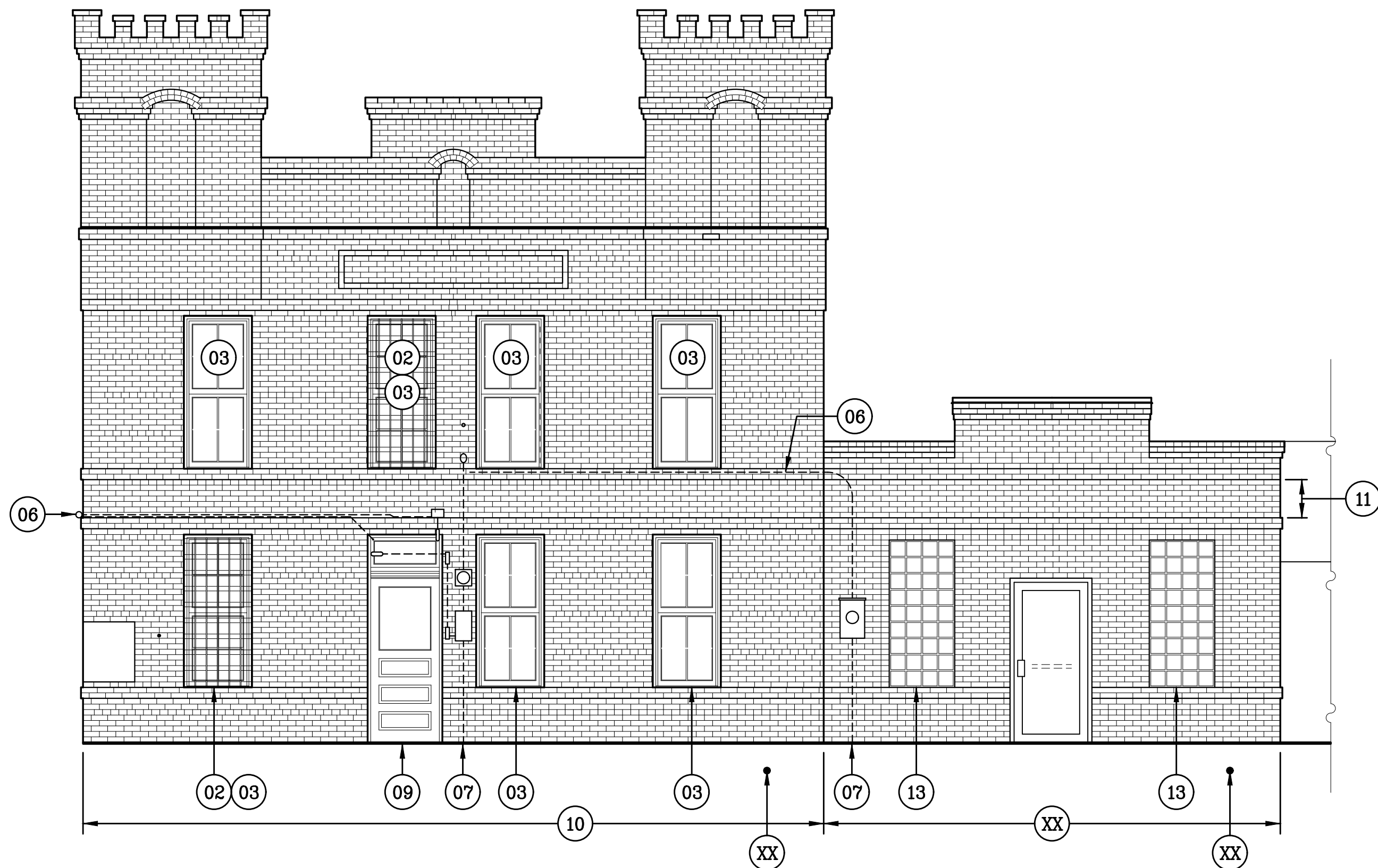
REGISTERED ARCHITECT
STATE OF TEXAS
1978

1913 LEON CO. JAIL
ELECTRICAL RELOCATION
CENTERVILLE, TEXAS

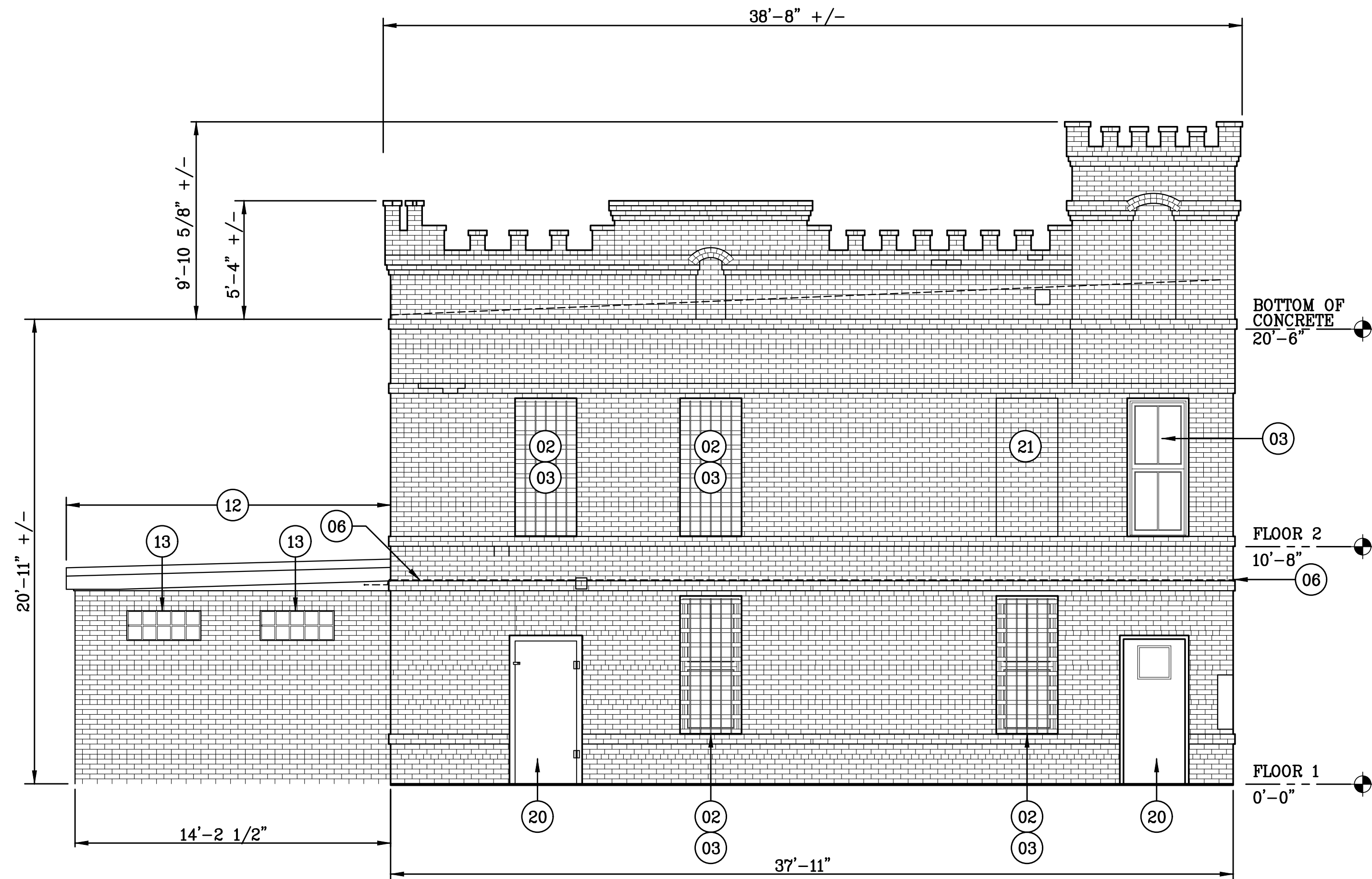
FLOOR
PLANS

PROJECT NUMBER
16042 B

SHEET NUMBER
A2.0



02 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

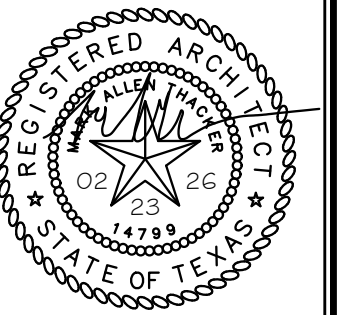


01 WEST ELEVATION
SCALE: 1/4" = 1'-0"

KEYNOTES

- 01 EXISTING WORKFORCE BUILDING AND FLASHINGS. NO WORK.
02 EXISTING HISTORIC IRON WORK ON EXTERIOR SIDE OF WINDOW. NO WORK.
03 EXISTING HISTORIC RESTORED WINDOW. NO WORK.
04 EXISTING HISTORIC IRON WORK ON INTERIOR SIDE OF WINDOW. PREPARE AND PAINT INTERIOR AND EXTERIOR SIDES. SECOND FLOOR. ALTERNATE NO. 2.
05 EXISTING OPENING INFILLED WITH MASONRY. REMOVE EXISTING WIRE MESH. REMOVE EXISTING BRICK INFILL AND INSTALL REPLICA WINDOW. PAINT BOTH SIDES OF EXISTING HISTORIC IRON WORK ON EXTERIOR SIDE OF NEW WINDOW.
06 REMOVE ALL EXPOSED CONDUIT AND WALL MOUNTED ITEMS. RESTORE AND REPAIR MASONRY.
07 RESTORE MASONRY WHERE ELECTRICAL SERVICE AND METER IS REMOVED. REMOVE GROUNDING ROD.
08 RESTORE MASONRY.
09 ALTERNATE NO. 01. REMOVE WOOD DOOR, FRAME, AND TRANSOM AS NECESSARY FOR RESTORATION. SEE 02/A1.2
10 EXISTING HISTORIC MASONRY HAS BEEN RESTORED WITH EXCEPTION OF MASONRY ADJACENT TO ELECTRICAL CONDUIT AND SURFACE MOUNTED ITEMS.
11 DO NOT DISTURB HISTORIC PAINTED LETTERING.
12 HISTORIC SERVER ADDITION. NO WORK.
13 EXISTING HISTORIC GLASS BLOCK WINDOW INFILL TO REMAIN.
14 AFTER REMOVAL OF NON-PERIOD ALUMINUM FRAMED WINDOW, CONSTRUCT AND INSTALL NEW REPLICA WOOD FRAMED WINDOW TO MATCH ORIGINAL.
15 AFTER REMOVE EXISTING NON-PERIOD WIRE MESH, RESTORE EXISTING WOOD FRAMED WINDOW.
16 REMOVE EXISTING WINDOW AC UNIT. REMOVE METAL SECURITY GRILLE. RESTORE EXISTING WOOD WINDOW AND WOOD FRAME.
17 REPAINT AND SEAL EXISTING PLYWOOD COVER AT FORMER DOOR LOCATION.
18 EXISTING DOWNSPOUT TO REMAIN. MASONRY RESTORATION BEHIND DOWNSPOUT NOT REQUIRED.
19 EXISTING CORNICE, FASCIA, AND GUTTER. NO WORK REQUIRED.
20 EXISTING HISTORIC STEEL DOOR PREVIOUSLY RESTORED.
21 EXISTING HISTORIC BRICK INFILLED OPENING TO REMAIN.

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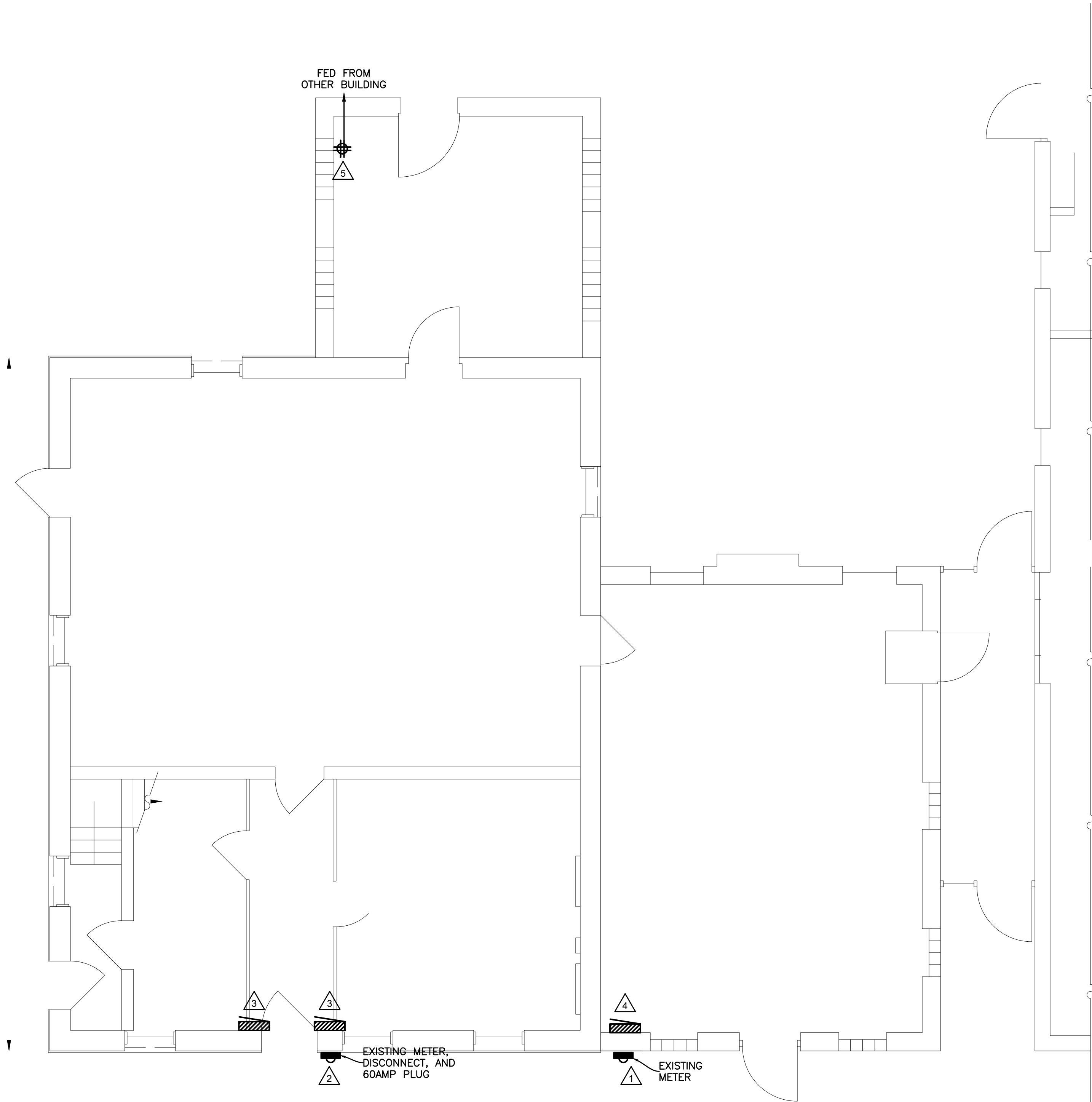


1913 LEON CO. JAIL
ELECTRICAL RELOCATION
CENTERVILLE, TEXAS

EXTERIOR
ELEVATIONS

PROJECT NUMBER
16042 B

SHEET NUMBER
A4.0



1 POWER DEMO PLAN
ED200 SCALE: 1/4" = 1'-0"

POWER PLAN KEYED DEMOLITION NOTES ⚠

NOTE: NOT ALL DEMO NOTES ARE USED ON ALL SHEETS

1. DISCONNECT AND REMOVE THE EXISTING ELECTRICAL SERVICE BACK TO THE SOURCE. COORDINATE THE DISCONNECTION WITH THE EXISTING TENANT AND THE LOCAL POWER COMPANY. REFER TO THE POWER PLAN FOR THE NEW SCOPE OF WORK.

2. REMOVE THE ELECTRICAL SERVICE, DISCONNECT, AND TWIST-LOCK RECEPTACLE BACK TO THE SOURCE. IF THE TWIST-LOCK PLUG IS IN GOOD CONDITION, REUSE IT IN THE NEW SCOPE OF WORK. COORDINATE DISCONNECTION WITH THE LOCAL POWER COMPANY. REFER TO THE POWER PLAN.

3. REMOVE THE EXISTING ELECTRICAL PANEL. ALL EXISTING CIRCUITS SHALL BE RELOCATED TO NEW PANEL "P2". CONTRACTOR SHALL VERIFY AND PROVIDE ISOLATED GROUND AND NEUTRAL CONDUCTORS. REFER TO THE POWER PLAN FOR THE NEW SCOPE OF WORK.

4. REMOVE THE EXISTING ELECTRICAL PANEL. ALL EXISTING CIRCUITS SHALL BE RELOCATED TO NEW PANEL "P1". CONTRACTOR SHALL VERIFY AND PROVIDE ISOLATED GROUND AND NEUTRAL CONDUCTORS. REFER TO THE POWER PLAN FOR THE NEW SCOPE OF WORK.

5. THE EXISTING SERVER SHALL REMAIN. CONTRACTOR MUST PROVIDE TEMPORARY POWER DURING CONSTRUCTION AND TRANSFER IT TO THE BUILDING'S PERMANENT ELECTRICAL SYSTEM UPON COMPLETION. COORDINATE SHUTDOWN AND SWITCHOVER WITH THE OWNER BEFORE CONSTRUCTION BEGINS. REFER TO THE POWER PLAN FOR THE NEW SCOPE OF WORK.

GENERAL NOTES:

DEMO DRAWING HAS BEEN PREPARED TO THE GREATEST EXTENT POSSIBLE. ALL WIRING, CONDUIT, DEVICES, AND HARDWARE, ETC. SHALL BE REMOVED BACK TO SOURCE WHETHER SHOWN OR NOT TO PREPARE FOR NEW SCOPE OF WORK.

A: ALL DEMO/REMOVED ELECTRICAL EQUIPMENT, HARDWARE, ETC. IS TO BE SALVAGED TO OWNER. ALL PIECES NOT WANTED BY THE OWNER MUST BE DISPOSED OF PROPERLY.

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MEP JOB #25130

STATE OF TEXAS

Professional Engineer

Jerry Wayne Godfrey

61805

02/16/2026

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PROJECT NUMBER
24011

SHEET NUMBER
ED200

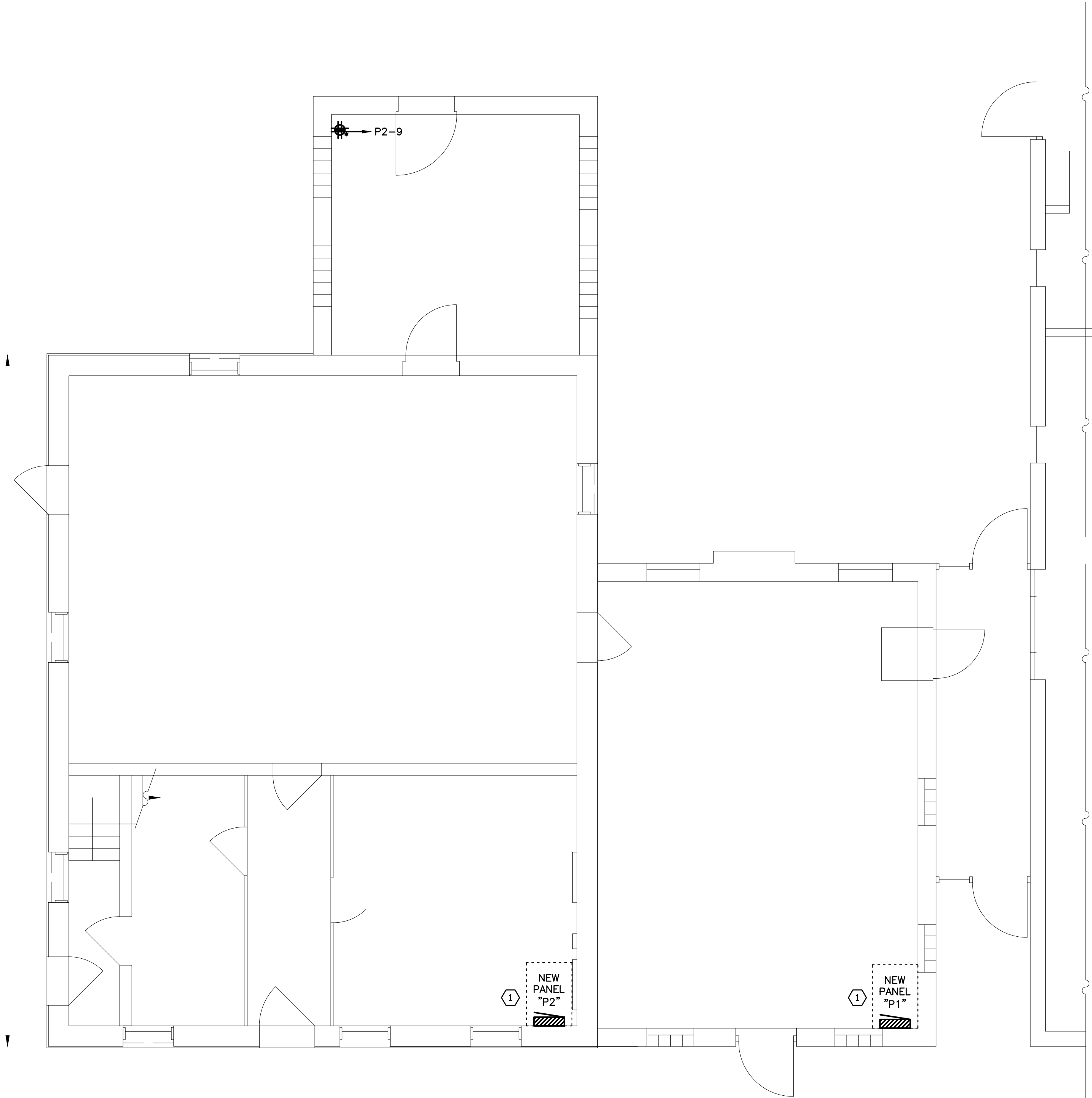
1913 LEON CO. JAIL
ELECTRICAL RELOCATION
CENTERVILLE, TEXAS

POWER DEMO PLAN

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24011

ED200



1 POWER PLAN
E200 SCALE: 1/4" = 1'-0"

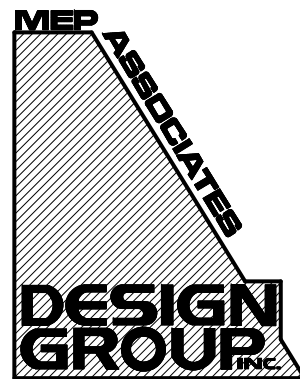
LEGEND	
	DUPLEX RECEPTACLE
	DUPLEX RECEP. VERIFY MOUNTING HEIGHT
	SINGLE RECEPTACLE
	RED CRITICAL DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	DEDICATED RECEPTACLE
	SWITCHED RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE
	WEATHERPROOF
	GROUND FAULT CIRCUIT INTERRUPTER
	ARC FAULT CIRCUIT INTERRUPTER
	COAX AND CAT 5/6. VERIFY TERMINATION.
	FLOOR RECEPTACLE
	HDMI OUTLET
	VOICE/DATA OUTLET
	HDMI OUTLET FROM FLOOR BOX TO TV
	HDMI OUTLET FOR LAPTOP CONNECTION TO TV
	CIRCUIT HOME RUN
	S SINGLE POLE SWITCH
	S3 3 WAY SWITCH
	S4 4 WAY SWITCH
	SD DIMMER SWITCH
	FUSED DISCONNECT/SAFETY SWITCH
	MOTOR
	JUNCTION BOX
	PANELBOARD/LOADCENTER
	RECESSED LIGHTING FIXTURE
	2X4 LIGHTING FIXTURE
	2X2 LIGHTING FIXTURE
	NIGHT LIGHTING FIXTURE
	4' STRIP LIGHTING FIXTURE
	8' STRIP LIGHTING FIXTURE
	CEILING MOUNTED LIGHT FIXTURE
	WALL MOUNTED FIXTURE
	HID HIGH BAY
	TRACK LIGHT
	OCCUPANCY SENSOR
EMERGENCY FIXTURES	
	DUAL REMOTE EMERGENCY HEAD
	EXIT SIGN WITH EMERGENCY BATTERY UNIT
	EXIT SIGN FACE AND DIR. ARROWS AS INDICATED
	EMERGENCY BATTERY UNIT
NOTE: NOT ALL SYMBOLS ARE USED IN ALL DRAWINGS.	

GENERAL POWER NOTES

- ALL DEVICES SHALL BE MOUNTED TO COMPLY WITH MOST CURRENT ADA STANDARDS.
- ELECTRICAL CONTRACTOR SHALL FIELD VERIFY POWER/DATA LOCATIONS IN OWNER'S OFFICE FURNITURE PRIOR TO CONSTRUCTION.
- ELECTRICAL CONTRACTORS SHALL NOT RUN LOW VOLTAGE WIRING IN SAME CONDUIT WITH HIGH VOLTAGE.
- ALL CONDUIT PASSING THROUGH FIRE WALL AND SMOKE WALL SHALL BE ENCASED IN A STEEL PIPE AND SEALED WITH APPROPRIATE UL RATED CAULKING TO MAINTAIN RATING OF WALL. WHERE ELECTRICAL BOXES OCCUR IN FIRE WALLS, PROVIDE FIRE RATED PUTTY AT BOX OPENINGS TO MAINTAIN FIRE RATING. DO NOT INSTALL BOXES BACK TO BACK IN RATED WALLS.
- COORDINATE AND PROVIDE ALL POWER REQUIREMENTS FOR MECHANICAL, DATA, AND FIRE ALARM CONTRACTORS.
- PROVIDE ARC FAULT AND TAMPER RESISTANT PROTECTION AS REQUIRED BY N.E.C ARTICLE 210.

KEYED POWER NOTES

- ALL SERVICE EQUIPMENT SHALL MEET NEC ARTICLE 110 FOR CLEARANCE, WORKING SPACE, INTERRUPTING RATING. CONTRACTOR SHALL FIELD VERIFY ACTUAL DIMENSIONS, SIZE, AND LOCATION AND MAKE NECESSARY LOCATION ADJUSTMENTS.



02/16/2026

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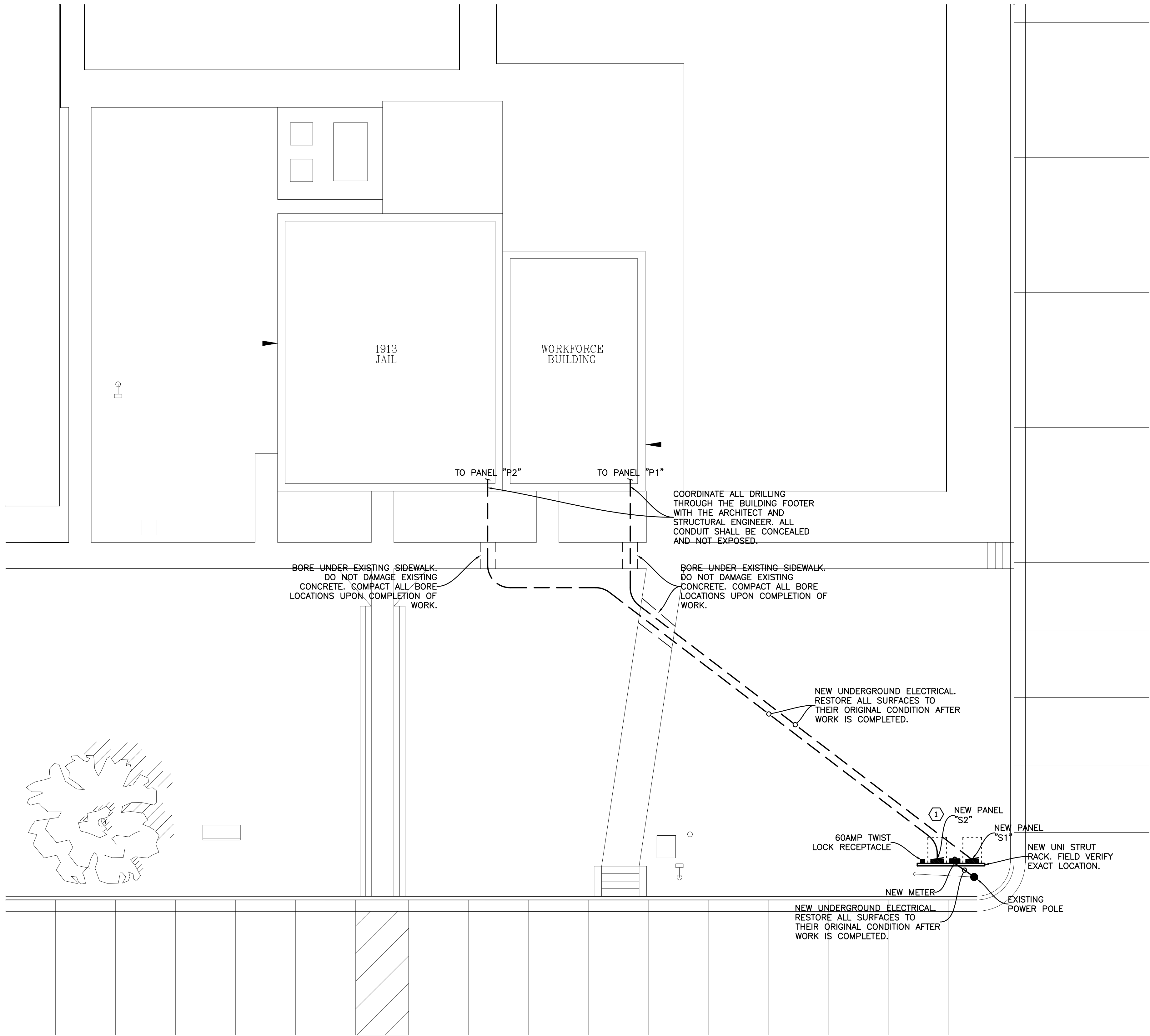
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1913 LEON CO. JAIL
ELECTRICAL RELOCATION
CENTERVILLE, TEXAS

POWER PLAN

PROJECT NUMBER
24011

SHEET NUMBER
E200



1
E201 **ELECTRICAL SITE PLAN**
SCALE: 1/8" = 1'-0"

LEGEND	
	DUPLEX RECEPTACLE
	DUPLEX RECEP. VERIFY MOUNTING HEIGHT
	SINGLE RECEPTACLE
	RED CRITICAL DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	DEDICATED RECEPTACLE
	SWITCHED RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE
	WEATHERPROOF
	GROUND FAULT CIRCUIT INTERRUPTER
	ARC FAULT CIRCUIT INTERRUPTER
	COAX AND CAT 5/6. VERIFY TERMINATION.
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	S4 4 WAY SWITCH
	SD DIMMER SWITCH
	FUSED DISCONNECT/SAFETY SWITCH
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	RECESSED LIGHTING FIXTURE
	2X4 LIGHTING FIXTURE
	2X2 LIGHTING FIXTURE
	NIGHT LIGHTING FIXTURE
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	CEILING MOUNTED LIGHT FIXTURE
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	TRACK LIGHT
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	DUAL REMOTE EMERGENCY HEAD
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	EXIT SIGN FACE AND DIR. ARROWS AS INDICATED
	EMERGENCY BATTERY UNIT
NOTE: NOT ALL SYMBOLS ARE USED IN ALL DRAWINGS.	

- GENERAL POWER NOTES**
- A. ALL DEVICES SHALL BE MOUNTED TO COMPLY WITH MOST CURRENT ADA STANDARDS.
- B. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY POWER/DATA LOCATIONS IN OWNER'S OFFICE FURNITURE PRIOR TO CONSTRUCTION.
- C. ELECTRICAL CONTRACTORS SHALL NOT RUN LOW VOLTAGE WIRING IN SAME CONDUIT WITH HIGH VOLTAGE.
- D. ALL CONDUIT PASSING THROUGH FIRE WALL AND SMOKE WALL SHALL BE ENCASED IN A STEEL PIPE AND SEALED WITH APPROPRIATE UL RATED CAULKING TO MAINTAIN RATING OF WALL. WHERE ELECTRICAL BOXES OCCUR IN FIRE WALLS, PROVIDE FIRE RATED PUTTY AT BOX OPENINGS TO MAINTAIN FIRE RATING. DO NOT INSTALL BOXES BACK TO BACK IN RATED WALLS.
- E. COORDINATE AND PROVIDE ALL POWER REQUIREMENTS FOR MECHANICAL, DATA, AND FIRE ALARM CONTRACTORS.
- F. PROVIDE ARC FAULT AND TAMPER RESISTANT PROTECTION AS REQUIRED BY N.E.C ARTICLE 210.

- KEYED POWER NOTES**
1. ALL SERVICE EQUIPMENT SHALL MEET NEC ARTICLE 110 FOR CLEARANCE, WORKING SPACE, INTERRUPTING RATING. CONTRACTOR SHALL FIELD VERIFY ACTUAL DIMENSIONS, SIZE, AND LOCATION AND MAKE NECESSARY LOCATION ADJUSTMENTS.

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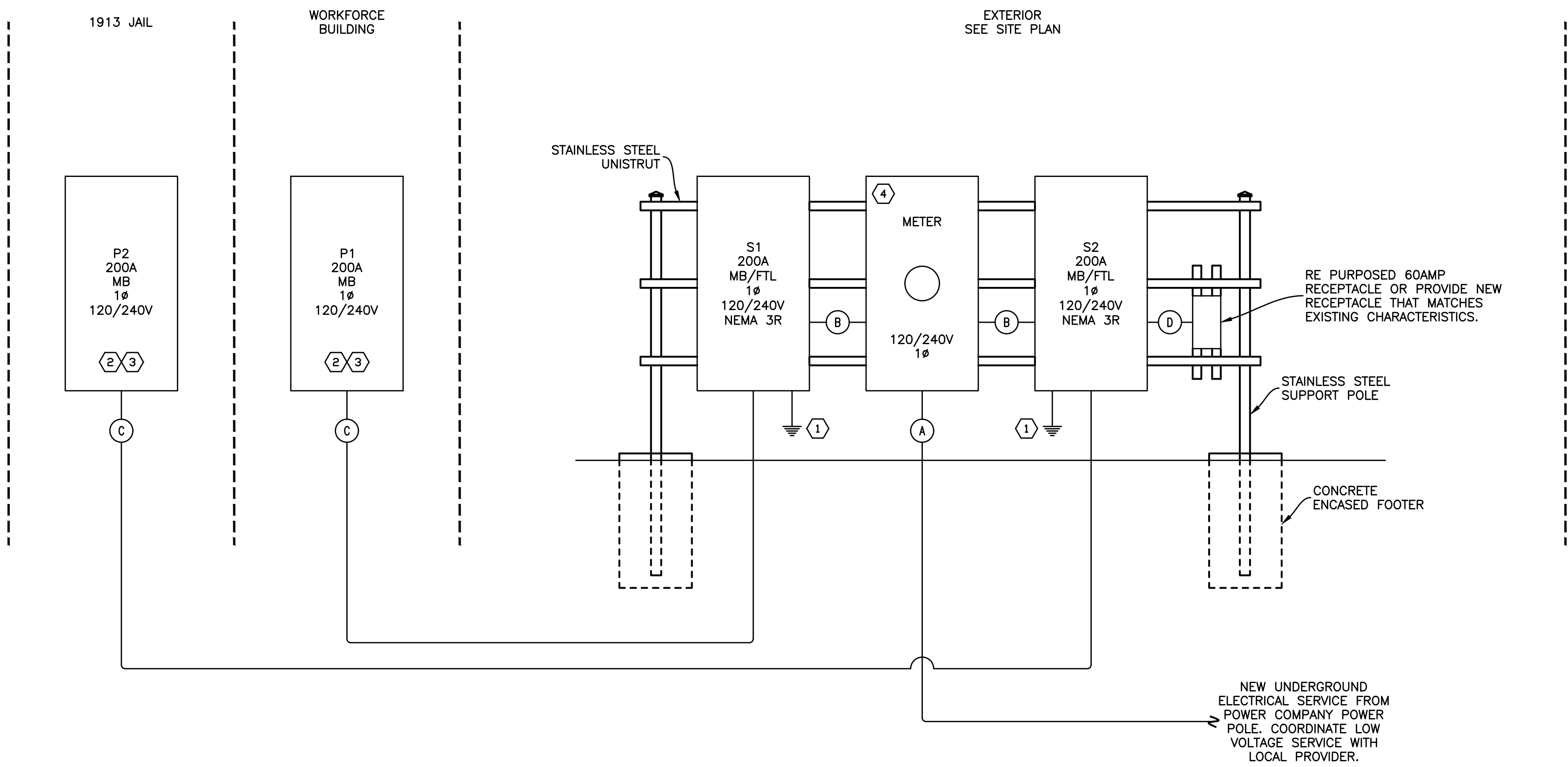
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ELECTRICAL RELOCATION
CENTERVILLE, TEXAS

ELECTRICAL SITE
PLAN

PROJECT NUMBER
24011

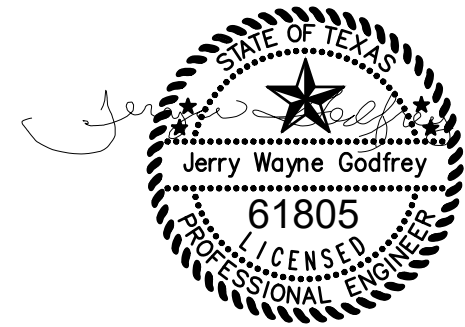
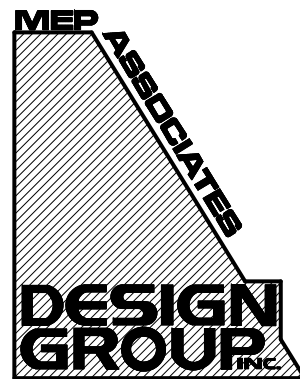
SHEET NUMBER
E201



1 RISER DIAGRAM
E300 SCALE: NTS

WIRE SCHEDULE	
MARK	WIRE AND SIZE =<150'
A	TO BE DETERMINED BY POWER COMPANY.
B	200 AMPS: 2" CONDUIT W/ (3) 3/0 CU
C	200 AMPS: 2" CONDUIT W/(3) 3/0 CU (1) #4 CU
D	60 AMPS: (2) 2" CONDUIT W/ (3) 350 CU EA.

- RISER KEYED NOTES: ⬡
- GROUND AND BOND MAIN WATER SERVICE, AND BUILDING STEEL, WITH SUPPLEMENTAL EARTH GROUND PER N.E.C. ARTICLE 250 AND AHJ.
 - PROVIDE CIRCUITS, LIGHTING CONTRACTORS, TIME CLOCK, AND PHOTOCELL CONTROL FOR ALL SITE LIGHTING. CIRCUITS TO BE RUN SUCH THAT OWNER CAN CHOOSE LIGHTING TO WORK PHOTOCELL ON/PHOTOCELL OFF OR PHOTOCELL ON/TIMECLOCK OFF. REFER TO MEP SITE PLAN.
 - LC-LIGHTING CONTACTOR. LIGHTING CONTACTOR TO BE SIZED AS REQUIRED FOR OWNERS OPERATIONAL REQUIREMENTS.
 - CONTRACTOR SHALL VERIFY AND PROVIDE MAIN ELECTRICAL SERVICE REQUIREMENTS FOR A COMPLETE WORKING SYSTEM.



02/16/2026

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1913 LEON CO. JAIL
ELECTRICAL RELOCATION
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RISER DIAGRAM

PROJECT NUMBER
24011

SHEET NUMBER
E300

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ELECTRICAL SPECIFICATIONS

SPECIAL CONDITIONS – ELECTRICAL

PART 1 – GENERAL

1.1 SCOPE

ELECTRICAL SYSTEM LAYOUTS INDICATED ON THE DRAWINGS ARE GENERALLY DIAGRAMMATIC IN AN EFFORT TO SHOW THE OWNERS INTENT, LOCATION OF OUTLETS, EQUIPMENT, CONDUIT ROUTING AND COMBINING OF ALL CIRCUITS ARE SHOWN APPROXIMATELY AND SHALL BE INSTALLED CONSISTENT WITH JOB CONDITIONS AND APPLICABLE CODE REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE WORKING SYSTEM AND ALL FINAL DESIGNS OF THE COMPLETED ELECTRICAL SYSTEM INCLUSIVE OF AS BUILT DRAWINGS TO BOTH THE OWNER AND ARCHITECT

1.2 REGULATIONS, CODES AND FEES

- A. COMPLY WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND MUNICIPAL LAWS AND REGULATIONS
- B. COMPLY WITH ALL APPLICABLE ASNI, IEEE, NEMA, AND UTILITY COMPANY STANDARDS AND REGULATIONS
- C. COMPLY WITH APPLICABLE NFPA CODES: REFERENCES HEREIN TO THE "CODE" OF THE "NEC" REFER TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA-70) AS REQUIRED BY THE LOCATION WHERE WORK IS BEING PERFORMED AND ENFORCEMENT AUTHORITIES
- D. SECURE ALL NECESSARY PERMITS AND PAY ALL REQUIRED FEES RELATED TO THE PROJECT

1.3 UTILITIES

- A. NOTIFY ALL UTILITIES REGARDING THE CONSTRUCTION SCHEDULE AND ANTICIPATED DATES WHEN THE UTILITIES SHOULD BE IMPACTED TO INCLUDE BOTH THE BEGINNING AND ENDING DATES
- B. PAY ALL REQUIRED UTILITY COMPANY FEES AND/OR BACK CHARGES IN CONJUNCTION WITH THE PERMANENT SERVICE IN SUFFICIENT TIME TO ALLOW THE UTILITIES TO SCHEDULE AND COMPLETE THE WORK
- C. NOTIFY LOCAL ALL UNDERGROUND FACILITIES PROTECTIVE ORGANIZATIONS BEFORE PERFORMING EXCAVATIONS AND/OR OTHER WORK INVOLVING GROUND PENETRATIONS
- D. ELECTRICAL INSPECTIONS ARE REQUIRED FOR SERVICE ROUGH-IN AND FINAL INSPECTION WITH CERTIFICATE OF COMPLETION PROVIDED TO THE OWNER AND ARCHITECT WITH SUBMISSION OF ALL FINAL INVOICES

1.4 EQUIPMENT AND SYSTEM INCLUDED

- A. INTENT: PROVIDE ALL MATERIALS, SUPPLIES, LABOR AND EQUIPMENT REQUIRED TO PLACE IN SATISFACTORY AND APPROVED OPERATING CONIDITION THE ELECTRICAL SYSTEMS SHOWN ON THE ELECTRICAL DRAWINGS AND OTHER DRAWINGS AS APPLICABLE, SPECIFIED AND/OR REQUIRED IN THIS DIVISION
- B. THE ELECTRICAL DRAWINGS SHOW THE LAYOUT, SWITCHING, CIRCUITING, ETC., EXCLUDING MINUTE DETAILS
- C. ELECTRICAL EQUIPMENT AND SYSTEMS – BRIEF SCOPE:
 - 1. PRIMARY SERVICE
 - 2. METERING
 - 3. GROUNDING
 - 4. BONDING
 - 5. MAIN SWITCH PANEL
 - 6. LIGHTING AND POWER FEEDERS
 - 7. CONDUIT, WIRING, OUTLETS, SWITCHES, ETC.
 - 8. MOTOR DISCONNECT SWITCHES – WHERE SHOWN AND/OR APPLICABLE PER CODES
 - 9. LIGHTING FIXTURES AND LAMPS
 - 10. MOTOR STARTERS, PUSH BUTTONS (IF/AS REQUIRED)
 - 11. EMERGENCY LIGHTING SYSTEM AS SHOWN AND/OR REQUIRED BY CODE
 - 12. TEMPORARY LIGHTING AND POWER

1.5 ELECTRICAL EQUIPMENT SPECIFIED IN OTHER DISCIPLINES WITHIN THIS PROJECT

- A. INTENT: IT IS THE INTENT OF THESE SPECIFICATIONS TO PROVIDE THE MAIN POWER SUPPLY WIRING FOR THE SWITCHBOARD(S) AND PANEL(S) THROUGH THE DISCONNECTS (IF REQUIRED) AND THE LOAD CONTACTS OF THE CONTROLLER(S) TO THE MOTOR(S) OR OTHER LOAD(S) UNLESS SPECIFICALLY NOTED OTHERWISE, THE CONTROL CIRCUIT SHALL BE PROVIDED BY THE CONTRACTOR FURNISHING THE EQUIPMENT SO THAT THE RESPONSIBILITY FOR THE EQUIPMENT AND ITS CONTROL CIRCUIT REST WITH ONE CONTRACTOR. WHERE THE POWER SUPPLY CIRCUIT IS ALSO THE CONTROL CIRCUIT, THE WIRING IS INCLUDED. EXCEPTION: SHOULD THE OWNER PROVIDE A SEPARATE CONTROL LOGIC SOURCE, SAID INTERFACE LOGIC RESPONSIBILITY SHALL REST WITH SAID OWNER SUPPLIED CONTRACTOR.
- B. BEFORE SUBMITTING PROPOSAL
 - 1. CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND SPECIFICATIONS RELATING TO THE WORK OF ALL OTHER TRADES TO DETERMINE SCOPE AND RELATIONSHIP TO OTHER WORK AND CONTRACTORS' RESPONSIBILITY
 - 2. EXAMINE ALL EXISTING CONDITIONS AFFECTING COMPLIANCE WITH PLANS AND SPECIFICATIONS BY VISITING THE SITE AND ALL RELATED AREAS, SERVICES & STRUCTURES
 - 3. ASCERTAIN ACCESS TO SITE, AVAILABLE STORAGE, AND DELIVERY FACILITIES
 - 4. CALL ANY DISCREPANCIES OR PROPOSED CHANGES TO THE ATTENTION OF THE ARCHITECT PRIOR TO SUBMITTING A PROPOSAL

- C. BEFORE COMMENCING WORK:
 - 1. VERIFY ALL GOVERNING DIMENSIONS AT SITE AND OR BUILDING
 - 2. INSPECT ALL ADJACENT WORK
 - 3. THE PROVISIONS OF THE GENERAL REQUIREMENTS SHALL PREVAIL FOR UTILIZATION OF PRODUCTS CONSIDERED "OR EQUAL" BY THE NAMES MANUFACTURER(S) IN THE TECHNICAL SPECIFICATIONS
 - 4. THE ENGINEER AND/OR OWNER SHALL BE THE SOLE JUDGE FOR DETERMINING IF A SUBSTITUTED PRODUCT IS "EQUAL" TO THE NAMED MANUFACTURER(S) IN THE TECHNICAL SPECIFICATIONS
 - 5. EQUIPMENT SUBSTITUTED FOR THAT OF THE FIRST NAMED MANUFACTURER MUST CONFORM TO THE SPACE REQUIREMENTS SHOWN ON THE DRAWINGS, ANY SUBSTITUTED EQUIPMENT THAT CANNOT MEET THE SPACE REQUIREMENTS SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE. ANY MODIFICATIONS OF RELATED SYSTEMS (ELECTRICAL, PIPING, DUCTWORK, ETC.) CAUSED BY A SUBSTITUTION SHALL BE MADE AT THE CONTRACTORS' EXPENSE
 - 6. THE COST OF REDESIGN FOR ANY BUILDING COMPONENT NECESSITATED BY THE SUBSTITUTION OF EQUIPMENT FOR THE FIRST NAMED IN THE TECHNICAL SPECIFICATIONS SHALL BE BORNE BY THE CONTRACTOR MAKING SUCH SUBSTITUTION AND SHALL BE INCLUDED AS PART OF THE BID
 - 7. ACCEPTANCE OF SUBSTITUTED EQUIPMENT BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR FROM MEETING ALL REQUIREMENTS
 - 8. SUBSTITUTION OF EQUIPMENT, SYSTEMS, ETC., REQUIRING APPROVAL OF LOCAL AUTHORITIES MUST COMPLY WITH SUCH REGULATIONS AND SHALL BE FILLED FOR APPROVAL AT THE EXPENSE OF THE CONTRACTOR (SHOULD FILING BE REQUIRED). THE CONTRACTOR IN OFFERING SUBMITTALS SHALL HOLD THE OWNER AND MEP HARMLESS IF THE SUBSTITUTED ITEM(S) ARE AN INFRINGEMENT OF A PATENT. APPROVED SUBMITTALS FOR CHANGE FROM THOSE ITEMS LISTED BY MEP SHALL BE REPLACED AT CONTRACTORS' EXPENSE INCLUSIVE OF ALL RELATED COSTS IMPACTED BY REPLACEMENT SHOULD SAID ALTERNATE SUBMITTED ITEM(S) NOT BE

ACCEPTED BY OWNER AND/OR PROVE INFERIOR TO THOSE ORIGINALLY SPECIFIED

- D. PROVIDE DISCONNECT SWITCHES WHERE REQUIRED BY THE CODE AND AS INDICATED ON DRAWINGS
- E. PROVIDE MOTOR CONTROLLERS (EXCEPT AS OTHERWISE NOTED) AND BE RESPONSIBLE FOR OBTAINING THE PROPER OVERLOAD RELAY THERMAL TRIP UNITS. NOTE: MOTOR CONTROLLER LOGIC WIRING SHALL BE RUN IN SEPARATE CONDUITS FROM POWER WIRING AND BE IN STRICT COMPLIANCE WITH THE MOTOR CONTROLLER MANUFACTURERS INSTALLATION REQUIREMENTS, INCLUDING SHIELDED CABLE REQUIREMENTS FOR ALL VFD DRIVEN MOTORS

1.6 WORK NOT INCLUDED

- A. HVAC SYSTEMS
- B. WIRING FOR LOW VOLTAGE TEMPERATURE CONTROL SYSTEMS
- C. OTHER EQUIPMENT SYSTEMS; WIRING FOR EQUIPMENT AND SYSTEMS EXCEPT AS NOTED ELSEWHERE

1.7 DISCREPANCIES

- A. ALL DISCREPANCIES SHALL BE PRESENTED TO THE ARCHITECT IN WRITING, AND RESOLVED, BEFORE BIDS ARE TAKEN

1.8 TESTS

- A. GENERAL
 - 1. SCHEDULE ALL TEST AS SOON AS EACH PART OF THE WIRING SYSTEM IS COMPETED AND BEFORE IT IS ENERGIZED
 - 2. FOR MEDIUM VOLTAGE SYSTEMS, NOTIFY THE OWNER AT LEAST 48 HOURS IN ADVANCE OF THE TEST AND SECURE WRITTEN APPROVAL TO PROCEED
 - 3. FOR GROUNDING SYSTEMS TEST OUT OF DOORS. DO NOT SCHEDULE TESTS WITHIN 48 HOURS AFTER A RAINFALL
 - 4. FOR EQUIPOTENTIAL BONDING SYSTEMS TEST PER CURRENT EDITION OF NEC IN FORCE
 - 5. PROVIDE ALL TEST EQUIPMENT AND RELATED SET-UP
 - 6. PROVIDE ALL ELECTRICAL ENERGY FOR THE TESTS UNLESS NOTED OTHERWISE IN WRITING
- B. WIRING SYSTEMS – 600 VOLT OR LESS
 - 1. ALL CONDUCTORS OF ALL SYSTEMS SHALL BE TESTED FOR OPENS, SHORTS AND GROUNDS

1.9 DEFINITIONS

- A. CONTRACT DOCUMENTS ARE SUPPLEMENTED AS FOLLOWS:
 - 1. "APPROVAL", "APPROVED": REFER TO ACCEPTANCE BY ENGINEER, CODE-ENFORCEMENT AUTHORITY, OR UTILITY INSPECTION AUTHORITY
 - 2. "NECESSARY"; NECESSITATED BY THE JOB CONDITIONS TO ATTAIN THE SPECIFIED RESULTS
 - 3. "PERMITTED"; BY TERMS OF SPECIFICATION ON DRAWINGS, OR BY INSPECTION AUTHORITIES
 - 4. "PROVIDE"; FURNISH, INSTALL AND WIRE
 - 5. "REQUIRED"; EXPRESSED OR IMPLIED REQUIREMENTS OF SPECIFICATION OR DRAWING, OR OF REFERENCED APPLICABLE CODES
 - 6. "STANDARD";
 - A. CONFORMING WITH APPLICABLE PUBLISHED STANDARDS OF TRADE OR TECHNICAL ORGANIZATION
- B. REGULARLY CATALOGED MANUFACTURER PRODUCTS

1.10 REQUIRED SUBMITTALS

- A. SUBMIT SHOP DRAWINGS
- B. SUBMIT SHOP DRAWINGS FOR APPROVAL ON THE FOLLOWING MINIMUM ITEMS:
 - 1. MAIN SWITCH PANEL
 - 2. FUSIBLE SWITCHES
 - 3. LIGHTING FIXTURES/LAMPS
 - 4. EMERGENCY LIGHTING UNITS
 - 5. MOTOR STARTERS, PUSH BUTTONS, LIGHTING CONTRACTORS
 - 6. METERING
 - 7. PANELS

1.11 TEMPORARY LIGHT & POWER

- A. PROVIDE TEMPORARY LIGHTING AND POWER AS REQUIRE
- B. DESIGN FOR TEMPORARY SERVICES SHALL BE THE RESPONSIBILITY OF THE DESIGNATED CONTRACTORS. THE OWNER SHALL NOT BE LIABLE FOR ANY DESIGN OR APPROVAL OF TEMPORARY SERVICES

CONDUIT

PART 1 – GENERAL

1.1 SCOPE

- A. THIS SECTION SUBJECT TO APPLICABLE REQUIREMENTS OF THE CONTRACT DOCUMENTS
- B. WORK INCLUDES ALL CONDUIT REQUIRED BY THE CONTRACT AND, IN GENERAL, THE FOLLOWING ITEMS:
 - 1. MINIMUM SIZE CONDUIT SHALL BE ¾"
 - 2. RIGID METAL CONDUIT AND FITTINGS
 - 3. INTERMEDIATE METAL CONDUIT AND FITTINGS
 - 4. ELECTRICAL METALLIC TUBING AND FITTINGS
 - § SETSCREW CONNECTORS ARE NOT ALLOWED, CONNECTORS SHALL BE COMPRESSION TYPE
 - 5. FLEXIBLE METAL CONDUIT AND FITTINGS, FOR FINAL CONNECTIONS ONLY
 - 6. SCHEDULE 40 PVC WIT 1" ENVELOPE OF CONCRETE FOR UNDERGROUND SERVICE FEEDS ONLY OR AS REQUIRED BY LOCAL AUTHORITIES

WIRE AND CABLE

PART 1 – GENERAL

1.1 SCOPE

- A. THIS SECTION SUBJECT TO APPLICABLE REQUIREMENTS OF THE CONTRACT DOCUMENTS
- B. WORK INCLUDES ALL WIRE AND CABLE REQUIRED BY THE CONTRACT AND, IN GENERAL, INCLUDES THE FOLLOWING ITEMS:
 - 1. BUILDING WIRE, USE TYPE THHN FOR ALL NON-DAMP AREAS THWN FOR DAMP AREAS
 - 2. WIRING CONNECTORS AND TERMINATIONS

WIRING DEVICES

PART 1 – GENERAL

1.1 WORK INCLUDED

- A. WALL SWITCHES – QUIET TYPE – INSTALL AT 48" A.F.F. OR AS NOTED
- B. RECEPTACLES – INSTALL AT 15" A.F.F. OR AS NOTED
- C. ENGRAVED DEVICE PLATES AND BOX COVERS
- D. FEED-THRU TYPE G.F.I.C. RECEPTACLES MAY BE USED
- E. COLOR – ALL WALL SWITCHES, RECEPTACLES, DEVICE PLATES, BOX COVERS, NON-PUBLIC AREAS SHALL DEFAULT TO WHITE UNLESS COLOR SPECIFIED BY ARCHITECT (EXCEPTION BEING CODE REQUIRED COLORS WHERE APPLICABLE). NOTE: ALWAYS CONFIRM COLORS WITH ARCHITECT IN WRITING AND INCLUDE COLOR IN SUBMITTALS
- F. VERIFY ALL DEVICES REQUIRED TO BE AT A.D.A. HEIGHT AS CONFIRMED BY ARCHITECT
- G. RECEPTACLES SHALL BE ORIENTATED BASED ON THE APPLICATION TO INCLUDE HOSPITALS, COUNTER LOCATIONS, ETC.
- H. DEVICES SHALL BE RATED EQUAL TO CIRCUIT SUPPLYING THEM (20 AMP CIRCUITS SHALL HAVE 20 AMP DEVICES)
- I. PROVIDE ARC FAULT AND TAMPER RESISTANT PROTECTION AS REQUIRED BY LOCAL CODES AND AHJ.
- J. ELECTRICAL OUTLETS ON OPPOSITE SIDES OF FIRE RATED ASSEMBLIES SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES.

PART 2 – PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. HUBBELL
- B. PASS & SEYMOUR
- C. GENERAL ELECTRIC
- D. LEVITON

SECONDARY POWER SYSTEM

PART 1 – GENERAL

1.1 WORK INCLUDED

- A. PROVIDE BRANCH CIRCUIT PANELS
- B. PROVIDE FEEDER CONDUITS AND CONDUCTORS
- C. PROVIDE METERING AS REQUIRED BY UTILITY COMPANY
- D. PROVIDE SECONDARY CONDUIT AND WIRING

PANEL BOARDS

PART 1 – GENERAL

1.1 WORK INCLUDED

- A. LIGHTING AND APPLIANCE BRANCH CIRCUIT PANEL BOARDS AND ALL REQUIRED BREAKERS (BREAKERS TO BE COMMERCIAL GRADE)
- B. PROVIDE COPPER BUS IN ALL PANELS

PART 2 – PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS – PANELS

- A. SQ. "D"
- B. APPROVED EQUAL

PART 3 – EXECUTION

3.1 INSTALLATION

- A. INSTALL PANELS PLUMB, IN CONFORMANCE WITH NEMA PB 1.1
- B. HEIGHT: 6'-0" ABOVE FINISHED FLOOR TO TOP OF UPPERMOST CIRCUIT BREAKER OPERATING HANDLE IN NON ADA REQUIRED AREAS, ALL ADA REQUIRED AREAS SHALL COMPLY WITH NATIONAL AND LOCAL ADA REQUIREMENTS AND HEIGHT RESTRICTIONS
- C. PROVIDE FILLER PLATES FOR UNUSED SPACES IN PANELBOARDS
- D. PROVIDE "AS BUILT" TYPED CIRCUIT DIRECTORY FOR EACH BRANCH CIRCUIT PANELBOARD. INCLUDE ALL REVISED CIRCUIT CHANGES IN TYPED CIRCUIT DIRECTORY INCLUSIVE OF THOSE CIRCUIT CHANGES REQUIRED TO BALANCE PHASE LOADS
- E. STUB 5 EMPTY ¾" CONDUITS TO ACCESSIBLE LOCATION ABOVE CEILING OUT OF EACH RECESSED PANELBOARD
- F. VERIFY A.I.C. RATINGS WITH POWER COMPANY PRIOR TO ORDERING EQUIPMENT
- G. ALL SERVICE EQUIPMENT SHALL BE OF ONE MANUFACTURER

LIGHTING

PART 1– GENERAL

1.1 WORK INCLUDED

- A. FURNISH AND INSTALL LUMINARIES SHOWN AND SPECIFIED PER MEP DRAWINGS AND SCHEDULES
 - § PROVIDE BALLASTS, FUSES, AND INTEGRAL CONTROLS
 - § SPECIFICATION IDENTIFIES BASIC MODELS ONLY IN SOME CASES; PROVIDE ALL FRAMES, TRIM SUPPORTS AND ACCESSORIES NECESSARY FOR PROPER INSTALLATION WITH CEILING SUPPORT SYSTEMS AND FINISHING MATERIALS PROVIDED UNDER GENERAL CONSTRUCTION REQUIREMENTS
 - § PROVIDE ALL MODIFICATIONS SHOWN OR SPECIFIED
- B. WIRE COMPLETE AS SHOWN
- C. PROVIDE COMPLETE INSTALLATION OF LAMPS, NEW AT TIME OF DESIGN
- D. LAMPS: STANDARD T8 COOL WHITE, "LITE WHITE" OR AS NOTED OTHERWISE INCLUSIVE OF LED WITH SPECIFIED KELVIN LEVELS. FIXTURES SHALL HAVE DUAL LEVEL CONTROLS AS REQUIRED BY IECC LATEST EDITION

GROUNDING AND BONDING

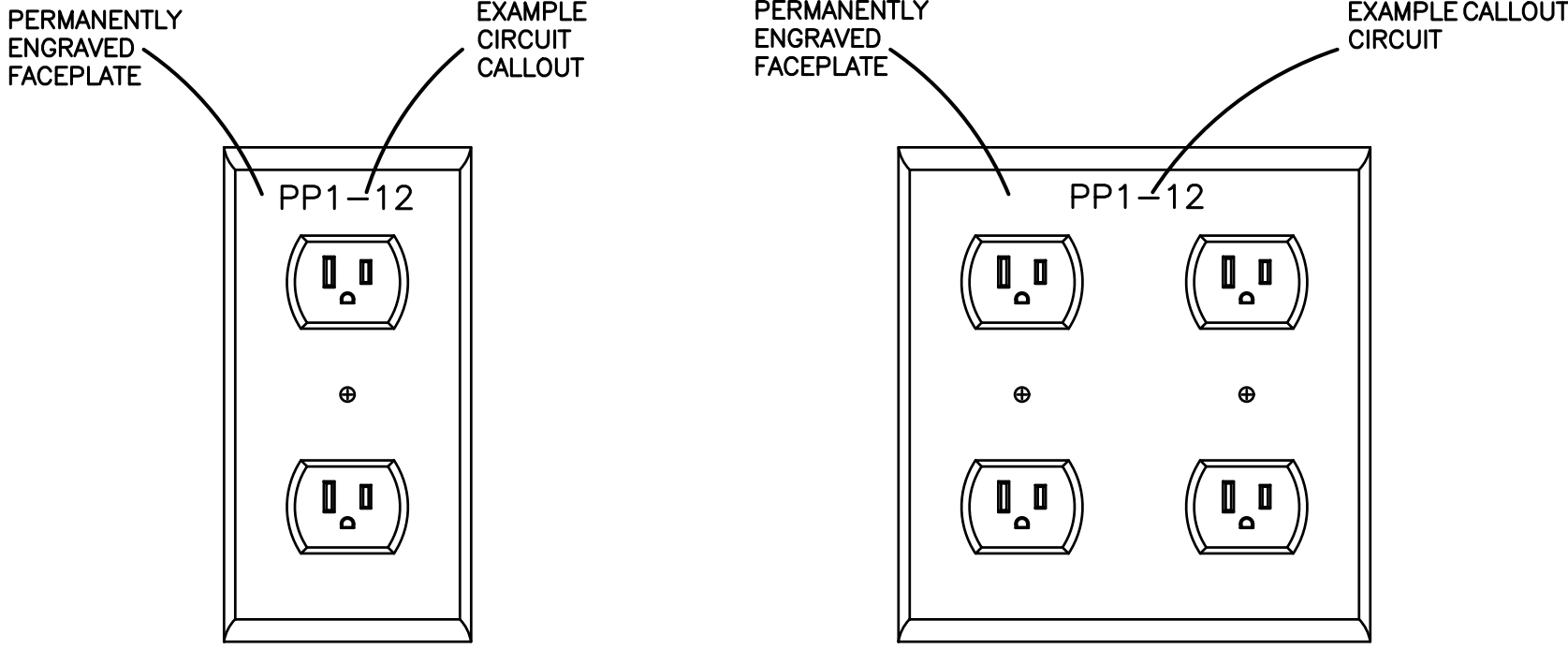
PART 1– GENERAL

1.1 WORK INCLUDED

- A. INSTALL GROUND RODS, FITTINGS, BONDING BUSHINGS, GROUNDING ELECTRODE CONDUCTORS AND GROUNDING CONDUCTORS PER THE APPROPRIATE SECTIONS OF THE NEC CODE
- B. CONNECT ALL INCOMING WATER PIPES TO THE UNDERGROUND LOOP OR TO THE SERVICE GROUND POINT
- C. BOND ALL METAL AS REQUIRED TO ACHIEVE AN EQUIPOTENTIAL SYSTEM IN COMPLIANCE WITH NEC CODE

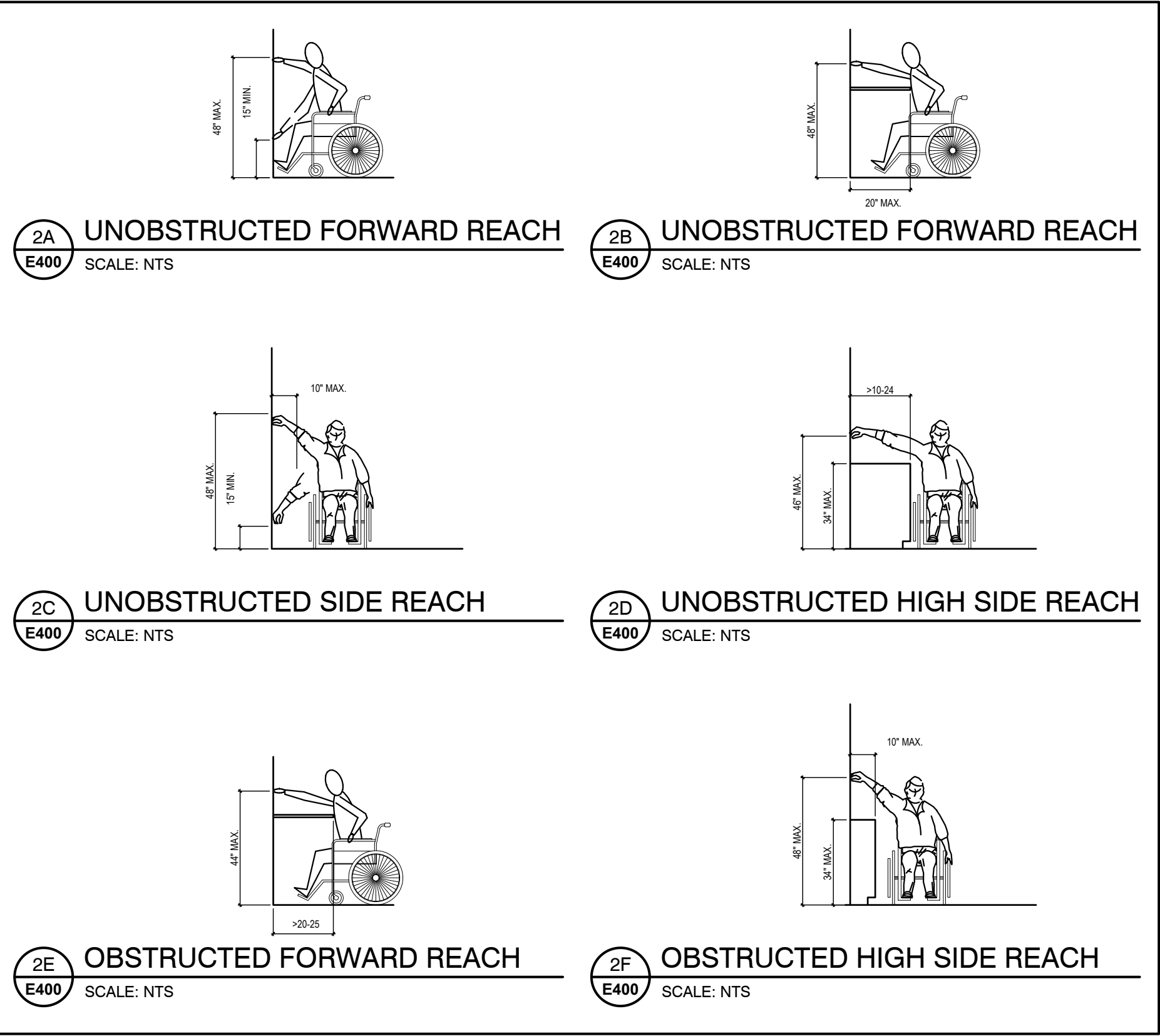
1.2 WARRANTY

- A. ELECTRICAL CONTRACTOR WARRANTS:
 - 1. THE ELECTRICAL SYSTEM TO BE FREE OF DEFECTIVE WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF PERMANENT OCCUPANCY
 - 2. THAT ALL EQUIPMENT FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR WILL CARRY A MANUFACTURER'S REPLACEMENT PARTS WARRANTY FOR A PERIOD OF ONE YEAR FROM THE DATE OF PERMANENT OCCUPANCY
 - 3. THAT ELECTRICAL CONTRACTOR SHALL FURNISH AT NO CHARGE WITHIN ONE YEAR FROM THE DATE OF PERMANENT OCCUPANCY ANY LABOR NECESSARY TO PROPERLY IMPLEMENT THE ABOVE EQUIPMENT WARRANTY RESPONSIBILITY



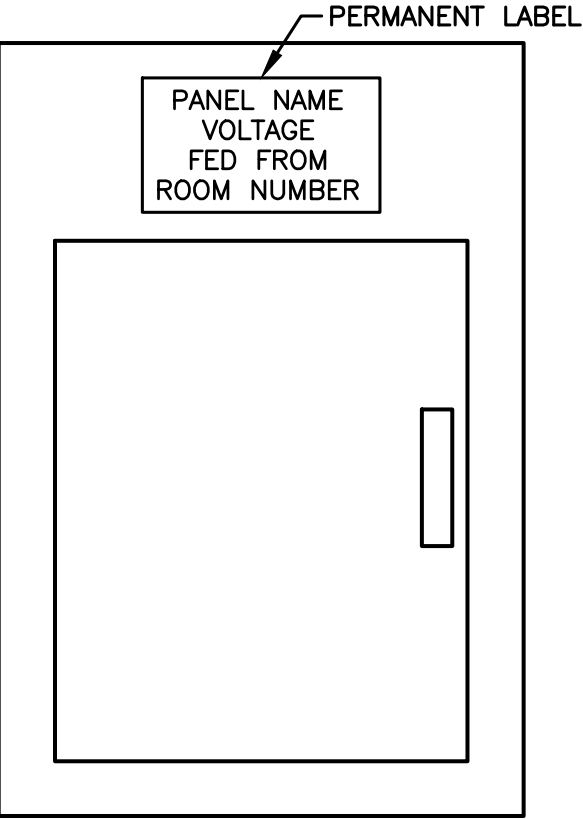
1 TYP. DEVICE LABELING

E400 SCALE: NTS



2 TYP. ADA MOUNTING HEIGHTS

E400 SCALE: NTS



3 TYP. PANELBOARD LABELING

E400 SCALE: NTS

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ALL CONTRACTORS ARE TO VERIFY ALL DIMENSIONS, FIELD CONDITIONS AND THE WORK OF OTHER TRADES BEFORE PROCEEDING WITH THEIR WORK.

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ELECTRICAL
SPECIFICATIONS

PROJECT NUMBER
24011

SHEET NUMBER
E400