

# Project Manual

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## **PRESS BOX RE-ROOF AT BISHOP STADIUM**

CICO Park

Manhattan-Ogden Unified School District 383  
Manhattan, Kansas

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P1905.01

October 2019



The Ebert Mayo Design Group  
Architects & Planning Consultants

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# PRESS BOX RE-ROOF AT BISHOP STADIUM

## CICO Park

Unified School District 383  
Manhattan, Kansas

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Architect:

**The Ebert Mayo Design Group**  
**Architects & Planning Consultants, Inc.**  
1115 Westport Drive  
Manhattan, Kansas 66502  
(785) 776-1800



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**SECTION 00 1100 – NOTICE TO BIDDERS**

October 8, 2019

**PRESS BOX RE-ROOF AT BISHOP STADIUM  
CICO PARK  
UNIFIED SCHOOL DISTRICT 383  
MANHATTAN, KANSAS**

**1.1 PROJECT SCOPE**

- A. The project consists of removing the existing railings, roof hatches and roofing over the press box and installing new railings, roof hatches, roofing, downspouts and gutters.

**1.2 TIME AND PLACE OF BID OPENING**

- A. 2:00 pm, October 31, 2019, at the Robinson Education Center, 2031 Poyntz Avenue, Manhattan, Kansas.

**1.3 PRE-BID CONFERENCE**

- A. 9:00 am, October 17, 2019, at the project site, Bishop Stadium, CICO Park, Manhattan, Kansas.

**1.4 TYPE OF CONTRACT**

- A. Lump sum for General Contract Work.

**1.5 CONTRACT DOCUMENTS**

- A. Drawings and Specifications are on view at the following locations:
  1. The Ebert Mayo Design Group, Architects & Planning Consultants, 1115 Westport Drive, Manhattan, Kansas 66502, 785-776-1800, email request to RWestberg@EMGArch.com.
  2. Dodge Data & Analytics, 6750 Antioch Road #110, Merriam, Kansas 66204, 866-223-3876. fax 800-465-7009.
  3. The Builders' Association, 720 Oak Street, Kansas City, Missouri 64106, 816-595-4116, fax 816-285-0575, plan room 816-595-4116.
  4. Associated General Contractors, 200 SW 33<sup>rd</sup> Street, Topeka, Kansas 66611, 785-266-4015, fax 785-266-2561.
  5. Topeka Blueprint Company, Inc., 608 Jackson, Topeka, Kansas 66603, 785-232-7209 or 888-291-7209, fax 785-232-5663.
  6. KCNR, LLC, 230 Laura Suite 101, Wichita, Kansas 67211, 316-263-0265, fax 316-263-0267.
  7. Manhattan Area Chamber of Commerce, 501 Poyntz Avenue, Manhattan, Kansas 66502, 785-776-8829, fax 785-776-0679.
- B. PDF copies of Drawings and Specifications are available from Rob Westberg at RWestberg@EMGArch.com.

**1.6 BID SECURITY AND BONDS**

- A. Bid Security will be required in accordance with the Instructions to Bidders.
- B. Bonds will be required in accordance with the Supplementary Conditions.

**END OF SECTION 00 1100**

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## SECTION 00 2100 - INSTRUCTIONS TO BIDDERS

### PART 1 - GENERAL

#### 1.1 DEFINITIONS

- A. Definitions set forth in the "General Conditions of the Contract for Construction," AIA Document A201-2007, are applicable to these Instructions to Bidders.
- B. Bidding documents include the Notice to Bidders, Instructions to Bidders, Proposal Form and proposed Contract Documents including any Addenda issued prior to receipt of Bids.
- C. Addenda are written or graphic instruments issued prior to the execution of the contract that modify or interpret the bidding documents, including the Drawings and Specifications, by additions, deletions, clarifications or corrections. Addenda will become part of the Contract Documents when the Construction Contract is executed.

#### 1.2 PLANHOLDERS OF RECORD

- A. Planholders who have received drawings and specifications directly from The Ebert Mayo Design Group are considered planholders of record and will receive appropriate addenda and other information regarding this project.
- B. Planholders who have not received drawings and specifications directly from The Ebert Mayo Design Group (e.g., at plan rooms or through plan services) are anonymous planholders, and may not receive pertinent or timely information during the bidding process. Anonymous planholders who intend to submit a bid for this project should advise the Architect of the intent to bid so that they may become a planholder of record.

#### 1.3 EXAMINATION OF BIDDING DOCUMENTS

- A. Each Bidder shall examine the bidding documents carefully and, not later than 7 days prior to the date for receipt of Bids, shall make written request to the Architect for interpretation or correction of any ambiguity, inconsistency or error therein which he may discover. Any interpretation or correction shall be by Addendum, and only a written interpretation or correction shall be binding.
- B. Before submitting any bids, the Contractor, and the Contractor's subcontractors and material suppliers shall observe the Drawings and Project Manual and should any material and/or its installation be indicated or specified in a manner not approved by the material manufacturer, notify the Architect.

#### 1.4 APPROVAL OF ALTERNATE PRODUCTS, MATERIALS OR METHODS

- A. Bidders requesting approval of alternate manufacturer's products, materials or methods must make written request to the Architect not later than 7 days prior to the date for receipt of Bids. Such written request must include complete technical information to allow the Architect to compare proposed alternate products, materials or methods with specified products, materials or methods.
- B. Requests must be accompanied by the following:
  - 1. Requests shall be specifically noted as alternate products, materials or methods requests,
  - 2. Requests must include full description and technical data, including physical dimensions, operating characteristics, and any other information necessary for comparison.
  - 3. Requests must clearly include and clearly highlight, for both the specified manufacturer and the proposed substitute manufacturer, the following information:
    - a. Manufacturer's name, model, catalog number, photographs or cuts.
    - b. All specified tests and requirements.
    - c. All differences between specified item and substitute item.
    - d. Any other information necessary for comparison.
- C. The Architect will not provide verbal approval of materials or methods during the bidding phase. Bidders who base their Bids upon proprietary products, materials or methods that have not been approved by Addendum do so at their own risk.

**1.5 ADDENDA**

- A. Prior to the receipt of Bids, addenda will be mailed, delivered, faxed, or issued by telephone (and documented in writing before Bid submission), to each planholder recorded by the Architect as having received the bidding documents. Addenda issued within the last 48 hours may be transmitted by fax only to the General Contractors who are recorded as planholders.
- B. Bidders shall acknowledge receipt of addenda on the Proposal Form in the specific space provided.
- C. Addenda issued after receipt of Bids will be mailed or delivered only to the selected Bidder.

**PART 2 - TAXES**

**2.1 SALES TAX EXEMPTION**

- A. Materials and equipment incorporated into this project are exempted from payment of Kansas Sales Tax and such sales tax shall not be included in bids.
- B. The Owner will secure a project exemption certificate for the project in accordance with the rules of Kansas Department of Revenue and furnish a copy to the Contractor. The Contractor shall furnish a copy of the project exemption certificate to all suppliers from whom purchases are made, and to all subcontractors.
  - 1. Suppliers who supply materials for the project shall execute invoices bearing the number from such certificate.
  - 2. Upon completion of the Project, each Contractor and each Subcontractor who used the project exemption certificate to claim exemption, shall furnish to the Owner a sworn statement, on a form provided by the Director of Taxation, that all its purchases made exempt under the project exemption certificate were entitled to exemption.
  - 3. All invoices shall be held by the Contractor and Subcontractors for a period of five (5) years and shall be subject to audit.
- C. The Contractor shall assume full responsibility for the Contractor's proper use of the certificate number, and shall pay all costs of any legally assessed penalties for improper use.
- D. If requested by the Owner or Architect, the Contractor shall furnish the Owner, through the Architect, with copies of all invoices bearing the certificate number prior to final payment.

**2.2 FEDERAL TAX:**

- A. Materials and equipment incorporated into this project are subject federal excise tax on all items of construction and equipment subject to such tax.

**PART 3 - PAYMENTS**

**3.1 PAYMENTS DURING CONSTRUCTION**

- A. The Owner shall pay the Contractor as follows:
  - 1. Periodic payments shall be made during the course of the Work. Each periodic payment shall be for work performed during the previous month. The Owner will retain 10% of amounts due the Contractor on payments made until Final Completion and submission of all required project closeout paperwork.

**PART 4 - COMPLETION TIME AND LIQUIDATED DAMAGES**

**4.1 COMPLETION TIME**

- A. Each Bidder acknowledges that he will substantially complete the work by the time specified in the Proposal Form, or be subject to liquidated damages as defined by these Instructions to Bidders.

**4.2 LIQUIDATED DAMAGES**

- A. All time limits stated in the contract documents are of the essence of the contract.

- B. The Owner shall be entitled to liquidated damages to cover the costs of alternate facilities, additional observations and inspections by the Architect, the salaries of contingent forces, and any other expenses incurred by the Owner due to delays in completion of the Work caused by the Contractor.
- C. Liquidated Damages for Failure to Meet the Date of Substantial Completion: In the event that the project is not substantially complete within the time period specified on the Proposal Form, the Contractor (and their Surety) shall be liable for and shall pay to the Owner the following as fixed, agreed and liquidated damages for each calendar day until the entire Work is substantially completed:
  - 1. \$200.00 per day.
- D. Liquidated Damages for Failure to Achieve Final Completion: In the event that Final Completion of the project is not achieved within 30 days following Substantial Completion, or within a time period mutually agreed between the Owner, Architect and Contractor, the Contractor (and their Surety) shall be liable for and shall pay to the Owner the following as fixed, agreed and liquidated damages for each calendar day until the entire Work is finally completed:
  - 1. \$100.00 per day.
- E. The above amounts for liquidated damages shall be deducted from the contract by contract Change Order prior to final payment. Such Change Order shall not require approval of the Contractor.

**PART 5 - RECEIPT OF PROPOSALS (BIDS)**

**5.1 BIDDER'S REPRESENTATION**

- A. The Bidder, by submitting their Bid, represents that:
  - 1. The Bidder has read and understands the Bidding Documents and their Bid is made in accordance therewith.
  - 2. The Bidder has personally visited the site and has familiarized himself with the local conditions under which the work is to be performed.
  - 3. The Bid is based upon the materials, systems and equipment described in the Bidding Documents without exception.
  - 4. The Bidder has not entered into collusion among other Bidders.
  - 5. The Bidder does not have an interest in more than one Bid or submitted more than one Bid under different names.

**5.2 PROPOSAL FORM**

- A. Proposals shall be made upon the Proposal Form or facsimile thereof as bound in this Project Manual. Fill in all blanks on the Proposal Form clearly with typewriter or ink. Erasures or other changes must be explained or noted over the signature of the Bidder. Signature shall be in longhand by a principal duly authorized to sign contracts; the signature accompanied by the corporate seal impression if Bid is by a corporation. Any persons signing as an agent shall submit acceptable evidence of their authority. Bids shall contain no alterations or recapitulation of the Work.
- B. Bidders shall acknowledge receipt of any Addenda by checking the appropriate location on the form.

**5.3 SIGNING PROPOSAL FORM**

- A. Proposals that are not signed by the individuals making them shall have attached to them a Power of Attorney evidencing authority to sign the bid in the name of the person for whom it is signed.
- B. Proposals that are signed for co-partnerships shall be signed by all of the co-partners or by an attorney-in-fact. If signed by an attorney-in-fact, there shall be attached to the bid a Power of Attorney evidencing authority to sign the bid.
- C. Proposals that are signed for corporations shall have the corporate name signed in handwriting or in typewriting, and the signature of the president or other authorized officer of the corporation. If signed by an official other than the president of the corporation, a resolution of the board of directors evidencing the authority of the official to sign the bid shall be attached.
- D. If bids are signed for any other legal entity, the authority of the person signing for the legal entity shall be attached to the bid.

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**5.4 BID SECURITY**

- A. Bid Security shall consist of one of the following:
  - 1. A Bid Bond (AIA Document A310 or other document containing identical provisions).
  - 2. A certified check on a solvent bank.
  - 3. A cashier's check on a solvent bank.
- B. Bid Security shall be enclosed with each Bid in the amount of at least 5% percent of the Base Bid.
- C. Bid Security shall be made payable, without condition to Unified School District 383, as a guarantee that the Bidder, upon notification of award, will within 10 days file all bonds and enter into the construction contract. Should the successful Bidder fail to enter into contract with the Owner, said Bid Security shall be forfeited as liquidated damages and the money derived therefrom will be turned to the use of the Owner. No Bidder may withdraw their Bid for a period of 60 days after the date of the Bid opening.
- D. Bid Security will be retained for the three lowest Bidders until the contract is awarded or other disposition is made thereof. Bid Security of all other Bidders will be returned promptly after the canvass of Bids.
- E. Bidder shall require attorney-in-fact who executes required bonds on behalf of the surety to affix thereto a certified and current copy of their power of attorney indicating the monetary limit of such power.

**5.5 SUBMISSION OF BIDS**

- A. All copies of the Proposal Form, Bid Security, and any other documents required to be submitted with the Bid shall be enclosed in a sealed opaque envelope. The envelope shall be addressed in the lower left corner as follows:

BID ENCLOSED  
PRESS BOX RE-ROOF AT BISHOP STADIUM  
Date and Time of Bid Opening

- B. If the Bid is sent by mail the sealed envelope shall be enclosed in a separate mailing envelope with the notation "SEPARATE BID ENVELOPE ENCLOSED" on the face thereof.
- C. Bids shall be deposited at the designated location prior to the time and date for receipt of Bids indicated in the Notice to Bidders, or any extension thereof made by Addendum. Any Bid received after the publicized date and time shall not be considered by the Owner.
- D. Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bids.
- E. Oral or telecommunication Bids are invalid and will not receive consideration.

**5.6 MODIFICATION OR WITHDRAWAL OF BID**

- A. A Bid may not be modified, withdrawn or cancelled by the Bidder for a period of 60 days following the time and date designated for the receipt of Bids, and Bidder so agrees in submitting their Bid.
- B. Prior to the time and date designated for receipt of Bids, Bids submitted early may be modified or withdrawn only by notice to the party receiving Bids at the place and prior to the time designated for receipt of Bids. Such modification or withdrawal shall be in person, or by a notice in writing over the signature of the Bidder, by mail.
  - 1. If by mail, written confirmation over the signature of Bidder must have been postmarked on or before the date and time set for receipt of Bids. It shall be so worded as not to reveal the amount of the original Bid.
  - 2. The Owner shall have no responsibility for failure of the notice to arrive at the designated site prior to the time designated for receipt of Bids.
- C. Withdrawn Bids may be resubmitted up to the time designated for the receipt of Bids provided that they are then fully in conformance with the Instructions to Bidders.
- D. A Bid may be withdrawn or corrected no later than two days after the bids have been opened if a non-judgmental error has been made.



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**PART 6 - REVIEW OF PROPOSALS**

**6.1 RESPONSIBLE BIDDER**

- A. It is the intent to award the project to the lowest responsible Bidder. The Owner remains the sole judge of whether or not a Bidder is “responsible.” Criteria that may be used to judge “responsible,” by way of illustration and not limitation, are:
  - 1. Financial standing.
  - 2. Proposed project completion time.
  - 3. Reputation.
  - 4. Experience.
  - 5. Resources.
  - 6. Facilities.
  - 7. Judgment.
  - 8. Efficiency.
- B. The Owner may investigate the “responsibility” of any Bidder by using information at hand to form an intelligent judgment, such as that from the Architect, previous clients of the Bidder, their own investigation, or an outside investigation agency.

**6.2 REJECTION OF PROPOSALS**

- A. The Owner shall have the right to reject any or all Bids, and in particular to reject a Bid not accompanied by any required Security or data required by the Bidding Documents or a Bid in any way incomplete or irregular.
- B. The Owner reserves the right to reject any and all Bids and to ask for new Bids.
- C. The Owner reserves the right to waive any informality or irregularity concerning the bids received as it may be in their interest to do so.
- D. The Owner may cancel this project at any time prior to the complete execution of a construction contract. Neither the Owner nor any of its employees, consultants or agents shall be responsible for any bid preparation costs, or any costs or charges of any type, should all bids be rejected or the project canceled for any reason prior to the complete execution of a construction contract.

**6.3 LISTING OF SUBCONTRACTORS**

- A. The apparent low bidder shall provide a listing of subcontractors proposed for use on the project. This list shall be provided to the Architect within 24 hours of the opening of bids. The list shall include any subcontractor that will be receiving one or more contracts totaling 10% or more of the bid price.

**6.4 POST-BID CONTRACTOR QUALIFICATION**

- A. Upon request of the Owner or Architect, a Contractor who has not had a contract with the Owner within the past 5 years will be required to submit a completed Contractor’s Qualification Statement.
  - 1. Bidder shall submit a fully completed Contractor's Qualification Statement (AIA Document A305, 1986 edition).
    - a. A305-1986 may be obtained from AIA Kansas, 700 SW Jackson, Topeka, Kansas 66603, 785-357-5308.
  - 2. At Article 3, EXPERIENCE, paragraph 3.2, add the following question:
    - a. 3.2.2.1 Have there been any judgments, claims, arbitration proceedings or suits against your organization or any of its officers, which have been resolved within the last 5 years?
    - b. 3.2.2.2 Have there been any liquidated damages assessed your organization within the last 5 years? If so, list the projects and amounts.
- B. Contractors who fail to fully complete the qualification statement may be disqualified.

**6.5 NOTICE TO PROCEED**

- A. It is the intent of the Owner to issue a Notice to Proceed expected on November 7, 2019 and completion by March 1, 2020.

**END OF SECTION 00 2100**

**SECTION 00 4200 - PROPOSAL FORM**

PRESS BOX RE-ROOF AT BISHOP STADIUM  
CICO PARK  
UNIFIED SCHOOL DISTRICT 383  
MANHATTAN, KANSAS

In compliance with your Notice to Bidders and Instructions to Bidders, the Undersigned proposes to furnish all labor, materials, equipment, haulage, services and incidentals necessary to construct the project in accordance with the Construction Contract Documents prepared by The Ebert Mayo Design Group, Architects & Planning Consultants, 1115 Westport Drive, Manhattan, Kansas 66502.

The undersigned Bidder acknowledges receipt of the following Addenda:

None ( ) #1 ( ) #2 ( ) #3 ( ) #4 ( ) #5 ( )

**BID**

The undersigned Bidder agrees to perform all work indicated on the Drawings, Project Manual and any Addenda, for the improvements, and all incidental work related thereto, for the following Bid:

Bid:

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

**TIME OF COMPLETION**

The Bidder agrees that the entire Work will be Substantially Complete in \_\_\_\_\_ calendar days from the date of the Notice to Proceed.

**PROJECT MANAGER AND CONSTRUCTION SUPERINTENDENT**

The Bidder acknowledges that the Project Manager and Superintendent are the two key persons representing the Contractor who will have a significant impact upon the success of the project. The Bidder proposes to assign the following personnel to this project, for the duration of the project, unless circumstances beyond the control of the Contractor (i.e., prolonged illness, injury, death or terminated employment) prevent them from continuing on the project.

Project Manager:

Name \_\_\_\_\_

Number of years employed by the Contractor \_\_\_\_\_

Number of years at this job title with the Contractor \_\_\_\_\_

Construction Superintendent:

Name \_\_\_\_\_

Number of years employed by the Contractor \_\_\_\_\_

Number of years at this job title with the Contractor \_\_\_\_\_

**CONTRACT AND CONTRACT SECURITY**

If notified of the acceptance of this Bid within 60 calendar days of the time set for opening bids, the Undersigned agrees to execute the Construction Contract within 10 days of the receipt of such notification and in accordance with this Bid and the Contract Documents.

The Bidder agrees, if awarded the Contract, to execute and deliver to the Architect all required bonds and insurance certificates as set forth in the Instructions to Bidders.

**DECLARATIONS**

The undersigned hereby declares that he has carefully examined the Site, the Notice to Bidders, the Instructions to Bidders, the Project Manual, and the Drawings, has satisfied himself as to all quantities and conditions, and understands that in signing this Bid he waives all right to plead any misunderstanding regarding same.

The undersigned understands that their competence and responsibility and that of their proposed subcontractors as well as any other factors of interest to the Owner will be a consideration in making the award.

The Owner reserves the right to reject any or all bids and to waive any informality or irregularity concerning the bids received as it may be in their interest to do so.

\_\_\_\_\_  
Legal Name of Bidder

Corporate Seal  
(if bid is submitted by a corporation)

\_\_\_\_\_  
By Authorized Officer (Signature)

\_\_\_\_\_  
Printed Name, Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
Street Address

\_\_\_\_\_  
City, State, Zip

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
Fax Number

\_\_\_\_\_  
E-Mail Address

**END OF SECTION 00 4200**

**SECTION 00 7200 - GENERAL CONDITIONS**

**PART 1 - GENERAL**

**1.1 AIA GENERAL CONDITIONS**

- A. AIA Document A107-2007, "Abbreviated Form of Agreement Between Owner and Contractor for Construction Projects of Limited Scope," 2007 Edition, 21 Articles, including General Conditions of the Contract for Construction, hereinafter referred to as the General Conditions, is hereby made part of these Specifications as if herein repeated. Contractor shall consult with its contents before submitting their proposal.
  - 1. A107-2007 may be obtained from AIA Kansas, 700 SW Jackson, Topeka, Kansas 66603, 785-357-5308.

**PART 2 - PRODUCTS (Not Used)**

**PART 3 - EXECUTION (Not Used)**

**END OF SECTION 00 7200**

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**SECTION 00 7300 - SUPPLEMENTARY CONDITIONS**

**PART 1 - PRE-CONTRACTUAL SUBMITTALS**

- A. Provide the Owner, through the Architect, the following items in a single submittal. Upon the Architect's acceptance, the Architect will transmit the submittal to the Owner for final signatures:
  - 1. Contract for Construction:
    - a. Three copies each, signed by the Contractor.
  - 2. Bonds:
    - a. Performance Bond: Two copies each, including power of attorney.
    - b. Labor and Material Payment Bond: Two copies each, including power of attorney.
    - c. Statutory Bond: Two copies each, including power of attorney.
    - d. Receipt from the District Court for filing the Statutory Bond: One copy.
      - 1) In lieu of separate receipt, each copy of the bonds may be stamped by the District Court.
  - 3. Insurance:
    - a. Insurance Certificates: Two copies each.
    - b. Best's Rating for the Insurance Company: One copy.

**PART 2 - CONTRACT CONDITIONS, BONDS, AND INSURANCE**

**2.1 RELATIONSHIP TO GENERAL CONDITIONS**

- A. Should conflict occur between these Supplementary Conditions and the General Conditions, the requirements of the Supplementary Conditions shall take precedence.

**2.2 PERFORMANCE BOND, LABOR AND MATERIAL PAYMENT BOND, AND STATUTORY BOND**

- A. The Contractor shall pay premium for and furnish a Performance Bond (AIA Document A312 or other document containing identical provisions), made payable to Unified School District 383, in the full amount of the Contract Sum to cover faithful performance of the contract.
- B. The Contractor shall also provide a State of Kansas Public Works Bond as required by K.S.A 60-1111 in the full amount of the Contract Sum, which shall be filed with the Clerk of the District Court in the county where the Project is being constructed. The Contractor shall provide the Architect with a receipt of the filing of such statutory bond.
  - 1. A Public Works Bond is not required for projects with a Contract Sum below \$100,000.00.

**2.3 OPTIONAL PERFORMANCE AND PAYMENT GUARANTEE**

- A. The Contractor may elect to use a certificate of deposit as a performance and payment guarantee in lieu of providing a Performance Bond, Labor and Material Payment Bond, and Public Works Bond. The certificate of deposit shall have a value of not less than the amount of the Contract, and shall serve the purpose of the Performance Bond, Labor and Material Payment Bond, and Public Works Bond.
- B. The Owner may accept a certificate of deposit jointly payable to the Owner and/or the State of Kansas, without condition, in lieu of any required surety bond from a bidder or contractor in the case of any contract for construction, repairs or improvements under K.S.A. 75-3739, 75-3741 or 60-1111 and amendments thereto.
- C. The certificate of deposit shall be subject to forfeiture to the Owner or State of Kansas and shall be in a form and under such conditions as may be prescribed by the Director of the Division of Purchases for surety bonds in accordance with K.S.A. 60-1112 and amendments thereto.
- D. Each such certificate of deposit shall be retained by the Owner for at least six (6) months after the final acceptance of the work for which the contract was entered into. At the end of such time period, the certificate of deposit may be endorsed back to the Contractor if there are no claims by the Owner under the Contract or by any person making a claim against the certificate of deposit.

- E. All interest accruing under any such certificate of deposit shall belong to the Contractor unless the certificate of deposit is forfeited to the Owner or State of Kansas.

## 2.4 INSURANCE

- A. Property Insurance: The insurance shall be provided as follows:
1. The Contractor shall purchase and maintain Property Insurance (All Risk Builder's Risk) required under AIA General Conditions, and shall name the Architect and Owner as additional insured parties under the policy as their interests may accrue (ATIMA).
- B. Workers' Compensation and Liability Insurance: Provide insurance as follows:
1. Worker's Compensation as required by all applicable Federal, State, Maritime or other laws including Employers Liability with a limit of at least:
    - a. Statutory limit regarding Worker's Compensation.
    - b. \$500,000.00 each person, Employer's Liability.
  2. The policy shall protect the Contractor from claims under Workers' Compensation Acts and require all subcontractors similarly to provide Workers' Compensation Insurance for the latter's employees unless such employees are covered by the State-approved protection offered by Contractor.
  3. The Contractor shall also be protected against claims for injury, disease, or death of employees that for any reason may not fall within the provisions of the Workers' Compensation Act.
  4. The policy shall include an "all states" endorsement.
- C. Comprehensive Automobile Liability Insurance: Provide insurance as follows:
1. The Contractor shall purchase and maintain Comprehensive Automobile Liability Insurance which shall protect the Contractor against all claims for injuries to members of the public and damage to property of others arising from the use of motor vehicles, and shall cover operation on or off the site of all motor vehicles licensed for highway use, whether they are owned, non-owned, or hired.
  2. Coverage: \$1,000,000.00 each person, \$1,000,000.00 per accident, including Property Damage of \$1,000,000.00 each occurrence.
- D. Comprehensive General Liability Insurance: Provide insurance as follows:
1. The Contractor shall purchase and maintain Comprehensive General Liability Insurance (including Contractor's Protective Liability) to protect the Contractor against all claims arising out of any act or omission of the Contractor, the Contractor's agents, employees or subcontractors.
  2. Coverage:
    - a. Bodily Injury, \$2,000,000.00 each occurrence, \$2,000,000.00 aggregate.
    - b. Property Damage, \$2,000,000.00 each occurrence, \$2,000,000.00 aggregate.
  3. The policy shall contain no exclusion relative to blasting, collapse of building, or damage to underground property if the Contractor's work, or work under the Contractor's direction, may have any risk whatsoever of such damage.
- E. Insurance policies must be purchased from companies rated a minimum of "A-" in the latest edition of Best's Key Rating Guide, and licensed to transact business in Kansas.
1. Submit evidence of Best's rating with the required insurance certificates.
- F. No Work shall be started until the Contractor has furnished the Architect with the required rating evidence and insurance certificates.
- G. Insurance Certificates: Provide the following certificates of insurance:
1. The Contractor shall provide insurance certificates of aforementioned insurances through the Architect in **2** certified copies. The Owner and Architect shall be listed as additional insureds as their interests may accrue (ATIMA). Such certificates shall be on ACORD Certificate of Insurance 25-S or other form providing identical information.
  2. The Contractor shall provide insurance certificates of aforementioned insurances through the Architect in **2** certified copies. The Owner and Architect shall be listed as certificate holders. Such certificates shall be on ACORD Certificate of Insurance 25-S or other form providing identical information.
- H. Should any of the Contractor's insurance policies be canceled before the expiration date, the issuing companies must provide a minimum of 30 days written notice to each certificate holder.

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### **PART 3 - PERMITS, FEES, LAWS AND REGULATIONS**

#### **3.1 BUILDING PERMITS**

- A. The Contractor shall secure and pay any fees for building permits and any other required construction permits from authorities having jurisdiction over the project.

#### **3.2 PERMITS, FEES AND REGULATIONS**

- A. The Contractor shall pay all fees and shall procure all applications, permits, licenses and approvals necessary for the execution of their contract.
- B. If charges for water, sewer and other utility connections made by municipalities are costs which the Owner is obligated to pay, the Contractor shall pay these charges where required by the Specifications.
- C. The Contractor shall give all notices and comply with all State and Federal laws, codes, rules and regulations relating to the performance of the Work, the protection of adjacent property, and the maintenance of passageways, guard fences or other protective facilities.

#### **3.3 LAWS TO BE OBSERVED**

- A. The Contractor shall at all times observe and comply with all federal and state laws, local laws, ordinances, orders, decrees, regulations and license requirements, whether existing or enacted subsequent to the execution of the Contract, which in any manner affect the prosecution of the work. The Contractor and Contractor's surety shall indemnify and save harmless the Owner and all of the Owner's officers, architects, engineers, representatives, agents, and employees against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order or decree, whether by the Contractor, the Contractor's employees, or subcontractors and suppliers.
- B. The Contractor hereby agrees and covenants as a condition of contract award that the Contractor will comply with the Kansas Act Against Discrimination (K.S.A. 44-1001 et seq.), the Kansas Age Discrimination in Employment Act (K.S.A. 44-1111 et seq.), and the Americans With Disabilities Act (42 U.S.C. 12101 et seq.), and that failure to do so may be deemed by the Owner to be a breach of contract, and may subject the contract to be terminated in whole or in part by the Owner.
  - 1. Failure to comply may be deemed by the Owner to be a breach of contract and may subject the contract to be terminated in whole or in part by the Owner.

#### **3.4 LIFE SAFETY REQUIREMENTS**

- A. The Contractor shall ensure that egress ways required by building codes remain accessible and usable during the construction of the Work.

#### **3.5 CERTAIN ACTS PROHIBITED**

- A. The Contractor shall be responsible for the conduct of the Contractor's employees, Subcontractor's employees, and Supplier's employees on the site.
- B. The Contractor shall educate workers on the site and monitor their performance to ensure compliance with the following prohibitions on or near the construction site:
  - 1. No possession of firearms or hunting items on school district property.
  - 2. No language that is vulgar or profane.
  - 3. No language that is racially or sexually derogatory.
  - 4. No physical or verbal contact is to be made with students, parents or non-designated staff.
  - 5. No clothing which has vulgar, profane, or inappropriate printing or messages. This includes tobacco-, alcohol- and drug-related products.
  - 6. No shirtless workers or workers wearing short pants. All workers are to wear clothing appropriate for construction activities.
- C. The Contractor shall comply with the following drug possession or use policy:
  - 1. No use or possession of illegal drugs or substances.
  - 2. No employees under the influence of illegal substances.
- D. The Contractor shall comply with the following alcohol use policy:
  - 1. No consumption or possession of alcoholic or cereal malt beverages.
  - 2. No employees under the influence of alcohol.
- E. The Contractor shall comply with the following tobacco use policy:



1. All Unified School District 383 properties are tobacco-free.
  2. All tobacco products, including smokeless tobacco, are prohibited.
  3. There are no designated areas for tobacco use.
  4. Smoking will not be permitted inside private vehicles which are on school district property.
  5. Workers may be required to sign a form acknowledging no tobacco use on school district property.
  6. Violators may be asked to leave the project site and may be barred from future access to the site.
  7. Smoking on site is prohibited at all times.
  8. Chewing and spitting of tobacco within the building at any time is prohibited.
  9. Chewing and spitting of tobacco is prohibited on site at all times.
- F. The Contractor shall take immediate steps to remedy any of the following activities:
1. Activities which may be construed as discriminatory or which creates a hostile work environment.
  2. Act in an unprofessional manner, including cursing, sexual harassment, etc.
  3. Willfully or deliberately failing to comply with the specifications or general conditions of the construction contract.
  4. Violations of the law.
- G. Violation of any of the above items shall be sufficient cause for the offending individual(s) to be removed from further participation in the Work. The Contractor shall cooperate with the Owner and Architect to ensure compliance with the acts prohibited above, and the permanent removal of individuals not in compliance.

#### **PART 4 - ARCHITECT**

##### **4.1 OBSERVATION AND INSPECTION BY THE ARCHITECT**

- A. The undertaking of periodic observation and inspection by the Architect or Architect's representative shall not be construed as supervision of actual construction, nor make him responsible for providing a safe place for the performance of work by the Contractor, subcontractors, suppliers, or their employees, or for access, visits, use, work, travel, or occupancy by any person.

##### **4.2 ARCHITECT'S SELECTION AND REVIEW OF MATERIALS**

- A. Where review by the Architect of material or equipment is required, obtain such review before procurement.
- B. The aesthetic values of every material and installation, such as shape, proportion, texture, finish and color, will be an important consideration to the Architect and their decisions concerning same shall be final.

#### **PART 5 - CONSTRUCTION DOCUMENTS**

##### **5.1 DRAWINGS AND SPECIFICATIONS**

- A. 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 intended results.
- B. If additional site information is required beyond that shown in the Contract Documents, the Contractor shall be responsible for all site, topography and property surveys not provided.
- C. Do not scale drawings for dimensions. Accurately lay out such work from dimensions indicated on architectural drawings, unless such be found in error, or by use of field verified dimensions. Consult the Architect for interpretations concerning locations of equipment.
- D. If the Contractor observes that drawings and specifications are at variance with any laws, ordinances, rules, regulations, or codes applying to the Work, the Contractor shall promptly notify the Architect in writing, following RFI procedures and any necessary changes will be adjusted as provided in the Contract Documents.

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**5.2 FORM OF SPECIFICATIONS**

- A. The General Conditions and Supplementary Conditions apply to every Division of these Specifications.
- B. All specification instructions are directed to the Contractor, and the inclusion of any work by mention, note or itemization, however brief, implies the Contractor shall provide same, unless specifically directed otherwise. Where a specific Contractor is named, he shall be responsible for and provide work so designated.
- C. In specifying an item by manufacturer's catalog or brochure (as published at the date of the Project Manual), furnish such item complete with component parts necessary for the obviously intended use and installation, whether or not the description or catalog number contains all supplemental information and/or numbers of such components.

**5.3 ADDITIONAL INSTRUCTIONS**

- A. The Contractor may be furnished additional instructions, clarifications, and/or detail drawings by the Architect/Engineer as necessary to carry out the intent of the Work included in the Contract. The additional Drawings and/or instructions thus supplied will coordinate with the Contract Documents and will be so prepared that they can be reasonably interpreted as part thereof. The Contractor shall carry out the Work in accordance with the additional detail drawings and/or instructions following ASI procedures.

**PART 6 - SUBSTITUTIONS**

**6.1 SUBSTITUTIONS**

- A. The Contract Documents are intended to produce a building of consistent character and quality of design. All components of the building, including visible items of mechanical and electrical equipment, have been selected to have a coordinated design in relation to the overall appearance of the building. The Architect will judge overall design of the work, as well as for the intrinsic merits of any proposed substitution which, in the Architect's opinion, would be out of character, obtrusive or otherwise inconsistent with the character or quality of the work.
- B. After Contract has been executed the Owner and the Architect may consider formal requests for the substitution of products in place of those specified only under the conditions as herein specified. Prior to making a formal request for substitution, contact the Architect to determine whether substitutions will be considered.
  - 1. Requests for substitution may be considered when, in the Architect's opinion:
    - a. Extensive revisions to the Contract Documents are not required.
    - b. Changes are in keeping with the general intent of the Contract Documents.
    - c. There will be a benefit to the Owner with respect to construction quality, cost and/or time.
    - d. The request is timely, fully documented and properly submitted.
  - 2. By making a request for substitution, the Contractor:
    - a. Represents that the Contractor has personally investigated the proposed substitute product and determined that it is equal or superior in all respects to that specified, including construction, physical size, efficiency, utility aesthetic design, and color.
    - b. Represents that the Contractor will provide the same warranty for the substitution that the Contractor would for that specified.
    - c. Certifies that the cost data presented is complete and includes all related costs under this Contract except the Architect's redesign costs, and waives all claims for additional costs related to the substitution which subsequently become apparent.
    - d. Will coordinate the installation of the accepted substitute, making such changes as may be required for the Work to be complete in all respects.
  - 3. Requests must include the following:
    - a. Full description and technical data, including physical dimensions, operating characteristics, and any other information necessary for comparison.
    - b. Clearly highlighted information for both the specified manufacturer and the proposed substitute manufacturer, including:
      - 1) Manufacturer's name, model, catalog number, photographs or cuts.
      - 2) All specified tests and requirements.

- 3) All differences between specified item and substitute item.
  - 4) Any required alterations to any part of the Work, including that of a separate contractor or a subcontractor.
  - 5) Any other information necessary for comparison.
- C. The Architect will be allowed a reasonable time within which to evaluate each proposed substitute. The Architect will be the sole judge of acceptability, and no substitute shall be ordered, installed or utilized without the Architect's prior written acceptance through approval of Shop Drawings, Change Order, Supplementary Instruction, or other directive.
- D. No claim shall arise from any rejection of a proposed substitution.
- E. The acceptance of a proposed substitution shall not be grounds for any claim for variation to cost or time unless otherwise agreed at the time of acceptance.
- F. The Contractor shall reimburse the Owner for the charges of the Architect and the Architect's consultants for evaluating each proposed substitute, whether or not the Architect accepts a proposed substitute. Such reimbursement shall be by Change Order, and shall not require the Contractor's signature.
- G. The Contractor shall use the following Request for Substitution form all substitution requests. The Request for Substitution form is available from the Architect in electronic format.



The Ebert Mayo Design Group  
 Architects & Planning Consultants

1115 Westport Drive  
 Manhattan, Kansas 66502-2873

(785) 776-1800 Phone  
 (785) 776-9906 Fax

www.EMGArch.com

**REQUEST FOR SUBSTITUTION**

*This form must be completed with all relevant data before any request to change the drawing or specification requirements will be considered.*

REFERENCE DATA			
Project Name:		TEM DG Project No:	
Date of Request:		Contractor Project No:	
Contractor:		Contractor Phone:	
Contractor Contact:		Contractor Fax:	
Subcontractor:		Subcontractor Phone:	
Subcontractor Contact:		Subcontractor Fax:	

SUBSTITUTION REQUEST DATA	
Request for Substitution for: <input type="checkbox"/> Named product. <input type="checkbox"/> Product type, material, finish or formulation. <input type="checkbox"/> Other.	Reason for request:
Product / Material for which substitution is requested is shown on the following documents:	
Specification: Section No:	Page(s) Paragraph No(s):
Drawings: (List numbers of all drawings affected):	

COST/BENEFIT ANALYSIS	
Describe in detail any alteration to any other part of the Works required by use of the requested substitution:	
Net cost / savings of any such other required alterations, including contractor overhead and profit:	\$
Estimated cost of Architect's review, documentation and administration:	\$
Total cost / savings of other required alterations:	\$
Cost / savings achieved with proposed substitution (from page 2):	\$
Total cost / savings to Owner:	\$
Benefits to Owner (other than financial):	

ADDITIONAL INFORMATION REQUIRED
Attach the following information: 1. Manufacturer's technical data sheets on proposed and specified products, highlighting key informational differences. 2. Manufacturer's standard form of warranty on proposed and specified products. 3. Letter on manufacturer's letterhead stating that manufacturer will warrant products as specified.

COMPARISON OF OPTIONS	
<i>Fill in the following blanks as are applicable to the product, material or method type. As a guide, if the item is mentioned in the Specification as a performance or materials requirement, then identical information about the proposed substitution is required to evaluate the proposed substitution. Requests lacking relevant information will be returned without action.</i>	
SPECIFIED PRODUCT, MATERIAL OR METHOD	PROPOSED SUBSTITUTION
Description:	Description:
Product Name:	Product Name:
Type:	Type:
Model No:	Model No:
Fire rating (hours):	Fire rating (hours):
Thickness:	Thickness:
Composition:	Composition:
Availability (time):	Availability (time):
Country of manufacture:	Country of manufacture:
Substrate preparation required:	Substrate preparation required:
Length of warranty available (years):	Length of warranty available (years):
Sound transmission/noise reduction coefficient (STC/NRC):	Sound transmission/noise reduction coefficient (STC/NRC):
Exposure class:	Exposure class:
Resistance to chemicals (list):	Resistance to chemicals (list):
Other specified performance criteria (list):	Other specified performance criteria (list):
<b>UNIT COST OF PRODUCT / MATERIAL (Must be completed):</b>	<b>UNIT COST OF PRODUCT / MATERIAL (Must be completed):</b>
\$ What units:	\$ What units:
Units required: Total value \$	Units required: Total value \$
CONTRACTOR'S REVIEW	
<i>I certify that I have checked the above documentation for the proposed Request for Substitution and warrant it to be substantially complete and accurate.</i>	Signature:
	Date:
ARCHITECT'S ACTION	
<input type="checkbox"/> Request approved. <input type="checkbox"/> Request denied. <input type="checkbox"/> Request approved subject to qualifications per attached documentation. <input type="checkbox"/> Returned without action	Approved by: _____ Date: _____ Comments: _____

**PART 7 - CONSTRUCTION PROJECT MANAGER AND SUPERINTENDENT**

**7.1 CONSTRUCTION PROJECT MANAGER**

- A. The Contractor shall be represented by a competent project manager who is acceptable to the Owner and Architect. The project manager shall be continuously assigned to the project, from the beginning of the Work until its final completion, and shall not be replaced without the permission of both the Owner and Architect, unless otherwise due to circumstances beyond the Contractor's control (e.g., prolonged illness/injury, death, or terminated employment).
- B. The project manager shall provide overall project coordination and management, and shall have full decision-making authority of the Contractor.

- C. The project manager shall be replaced upon request of the Owner and Architect.

## 7.2 CONSTRUCTION SUPERINTENDENT

- A. The Contractor shall be represented by a competent superintendent who is acceptable to the Owner and Architect. The superintendent shall be continuously assigned to the project, from the beginning of the Work until its final completion, and shall not be replaced without the permission of both the Owner and Architect, unless otherwise due to circumstances beyond the Contractor's control (e.g., prolonged illness/injury, death, or terminated employment).
- B. The superintendent shall provide site coordination and management, and shall have full decision-making authority of the Contractor.
- C. The superintendent shall coordinate and enforce requirements of the contract documents whether the particular item of work is under their direct supervision or under subcontract. He shall ensure that work is executed by experienced mechanics.
- D. The Contractor shall receive written permission from the Architect and Owner if the superintendent for this project is to have responsibilities at other projects.
  - 1. Non-compliance with this provision will be cause for the Owner to immediately stop the Work or stop making payments until the Contractor reassigns the superintendent exclusively to this project. Stopping Work under this provision will not extend time periods for the purposes of calculating liquidated damages.
- E. The superintendent shall be replaced upon request of the Owner and Architect.

## PART 8 - CONSTRUCTION SCHEDULING, SEQUENCING AND MEETINGS

### 8.1 CONTRACTOR'S CONSTRUCTION SCHEDULE

- A. A minimum of one week prior to the Pre-Construction Conference, the Contractor shall present to the Architect a construction schedule. The Contractor shall coordinate each subcontractor's schedule and establish a mutually acceptable schedule for the entire progress of the Work. Following acceptance of the schedule by the Architect, present the schedule during the Pre-Construction Conference.

### 8.2 PROGRESS MEETINGS


- A. Conduct progress meetings at a regularly scheduled time every two weeks. Coordinate the scheduled meeting time with the Owner and Architect. Coordinate dates of meetings with preparation of the application for payment.
- B. In addition to representatives of the Owner and Architect, the superintendent and each subcontractor, supplier or other entity concerned with current progress or involved in planning, coordination or performance of future activities shall be represented by persons familiar with the Project and authorized to conclude matters relating to progress.
- C. The Contractor shall keep minutes of the meetings and shall provide copies of minutes to all parties concerned within three days of each meeting.
- D. Progress meetings will be held until all punch list items are complete. The Contractor and all subcontractors having incomplete punch list items are required to attend progress meetings.

## PART 9 - SUBMITTALS

### 9.1 SUBMITTAL PROCEDURES

- A. General: Prepare and submit submittals required by individual specification sections. Types of submittals are indicated in the various sections.
  - 1. Where possible, submit electronic submittals via e-mail as PDF files.
  - 2. Send submittals to [MMayo@EMGArch.com](mailto:MMayo@EMGArch.com).
  - 3. Submittal procedures, including submittal records and file naming formats, shall be coordinated with the Architect prior to transmitting any submittals.

- B. The Contractor shall, when possible, provide all required shop drawings, product data and samples for the Architect's review in a single group of submittals for each division of the specifications. Transmit submittals sufficiently in advance of performance of related construction activities to avoid delay.
  - 1. The Architect reserves the right to withhold action on any submittal requiring coordination with other submittals until related submittals are received.
- C. Allow sufficient review time so that installation will not be delayed as a result of the time required to process submittals, including time for resubmittals.
  - 1. No extension of Contract Time will be authorized because of failure to transmit submittals to the Architect sufficiently in advance of the Work to permit processing.
- D. All submittals shall be accompanied by a transmittal letter identifying the project, Architect's project number, and specification section number for each item being submitted.
- E. All submittals shall be clearly marked indicating which features, options and accessories will be provided.
- F. The Contractor shall use the following Shop Drawings Submittal Cover Page for all shop drawing and product data submittals. Attach a completed cover page to each front page of each copy of each submittal. The cover page is available from the Architect in electronic format.

 <p><b>The Ebert Mayo Design Group</b> Architects &amp; Planning Consultants</p>		<p>1115 Westport Drive Manhattan, Kansas 66502-2873</p> <p>(785) 776-1800 Phone (785) 776-9906 Fax www.EMGArch.com</p>				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: left;"><b>ROUTING</b></td> </tr> <tr> <td style="width: 50%;">                 To Reviewer: Received:             </td> <td style="width: 50%; text-align: right;">                 Returned to Contractor: From Reviewer:             </td> </tr> </table>			<b>ROUTING</b>		To Reviewer: Received:	Returned to Contractor: From Reviewer:
<b>ROUTING</b>						
To Reviewer: Received:	Returned to Contractor: From Reviewer:					
<p><b>SHOP DRAWINGS SUBMITTAL COVER PAGE</b></p>						
<p>Contractor: Address: City/State/Zip: Phone:</p> <p>Subcontractor: Address: City/State/Zip: Phone:</p> <p>Supplier: Address: City/State/Zip: Phone:</p> <p>Manufacturer: Address: City/State/Zip: Phone:</p>	<p>Project:      <b>-Project Name-</b>                   <b>-Project Owner-</b></p> <p>Proj No(s):      <b>P0</b> ____</p> <p>Date:</p> <p>Submittal No:</p> <p> <input type="checkbox"/> Original Submittal      <input type="checkbox"/> Complies With Contract Documents  <input type="checkbox"/> Resubmittal            <input type="checkbox"/> Deviates From Contract Documents                 </p> <p>Submittal Title:</p> <p>Spec Section(s):</p> <p>Spec Sub-section(s):</p>					
<p>Contractor's Comments:</p>	<p>Architect's or Consultant's Comments:</p>					
<p>Contractor's Action Stamp:</p>	<p>Architect's or Consultant's Action Stamp:</p>					
<p>Rev: 05/16/12</p>						

- G. Contractor shall submit no more copies than actually required to construct the work, plus allowing for the following:
  - 1. One copy retained by the Architect.
  - 2. One copy retained by the Owner.
- H. If submittals are in PDF format, no hardcopies are required.



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## TEMPORARY FACILITIES

### 9.2 GENERAL

- A. General: The Contractor shall be responsible for coordinating and scheduling among all trades and subcontractors the furnishing and use of all temporary facilities required for the work. The Contractor shall provide (or shall require that subcontractors provide) all the temporary materials and equipment necessary to accomplish the work including hoses and connections, extension cords, and special lighting systems.
- B. Requirements of Regulatory Agencies: Comply with industry standards, applicable laws and regulations of authorities having jurisdiction over work involved in the Project. Obtain and pay all associated costs for any necessary permits and inspections for all temporary work being performed. Authorities having jurisdiction and regulations include, but are not limited to, the following:
  - 1. Building Code requirements.
  - 2. Fire Marshal.
  - 3. Health and safety regulations.
  - 4. Utility company regulations.
  - 5. Police, Fire Department and Rescue Squad rules.
  - 6. Environmental protection regulations.
- C. Grades, Lines and Levels: Lay out lines, levels and locations for the work in accordance with the information furnished on the drawings. The Contractor shall be held responsible for all errors resulting from failure to verify all figures from reference points given in the furnished information and drawings, before laying out the work. When dimensions are provided, drawings shall not be scaled.

### 9.3 ENVIRONMENTAL

- A. Environmental Protection: Provide protection, operate temporary facilities and conduct construction in ways and by methods that comply with environmental regulations, and minimize the possibility that air, waterways and subsoil might be contaminated or polluted, or that other undesirable effects might result.
  - 1. Avoid use of tools and equipment that produce harmful noise.
  - 2. Restrict use of noise-making tools and equipment to hours that will minimize complaints from building occupants and adjacent property owners.

### 9.4 TRAFFIC

- A. Streets and Drives: Do not interfere with normal use of streets in the vicinity of the project site except as indicated on drawings and/or as absolutely necessary to execute required work, and then only after proper arrangements have been made with applicable authorities, including traffic control.
  - 1. The Contractor shall minimize the impact of construction activities on traffic which occurs at the start and end of each school day.
- B. Vehicle Access: The contractor shall be responsible for all traffic control at streets adjacent to the project site as required when vehicles enter and leave the site. Comply with governing regulations for traffic control.
- C. Temporary Parking: Temporary parking facilities for construction personnel and equipment shall be confined to areas coordinated with the Owner.

### 9.5 BARRIERS

- A. Barricades, Working Signs and Lights: Provide temporary safeguards as required to perform the Work, to provide safety of workmen and the public, and to provide protection of the Work.
  - 1. Maintain continuous protection of the public along adjacent property and adjacent streets in accordance with governing authorities.
  - 2. Comply with standards and code requirements for erection of structurally adequate barricades around open excavations. Paint the appropriate colors, graphics and warning signs to inform personnel and the public of the hazard being protected against. Where appropriate and needed, provide lighting, including flashing red or amber lights.
  - 3. The Contractor shall be responsible for security and weather protection.

**9.6 SANITATION**

- A. Health and Sanitation: Comply with rules and regulations of boards and bodies having jurisdiction with respect to health and sanitation. Supply safe and sufficient drinking water and toilet facilities to all employees, obey and enforce sanitary and health regulations, and take precautions against the spread of infectious diseases.
- B. Sanitary Facilities: Existing toilets shall not be used by construction personnel.
  - 1. The Contractor shall provide temporary toilets, wash facilities, drinking water, and all necessary disposable materials. Comply with regulations and health codes for the type, number, location, operation and maintenance of fixtures and facilities.

**9.7 WASTE CONTAINERS AND DUMP SITES**

- A. Waste Containers: The Contractor shall provide and pay for all facilities and dumpsters for use by all subcontractors as necessary to remove all their trash and construction debris from the site. Each subcontractor shall be responsible for the general clean-up and trash removal associated with their work.
  - 1. Collect waste from construction areas and areas within 50 feet of the site daily.
  - 2. Obtain all necessary permits and comply with requirements for disposal.
  - 3. Enforce requirements strictly. Do not hold materials more than 7 days during normal weather, or 3 days when the temperature is expected to rise above 80 deg F.
  - 4. Dispose of materials in a lawful manner.
- B. Prior to beginning construction work, submit a list of dump sites to be used for disposal of construction-related materials. Include certification from the dump site owner that the dump is approved as a dump site by the local agencies having jurisdiction over the site.

**9.8 UTILITIES**

- A. Electrical: Provide and maintain temporary electrical service to the site and all temporary wiring and lighting within the confines of the Project. Provide all temporary lighting and wiring required for extension of energy of ample quality and quantity for accurate and efficient performance of the Work within the confines of the Project. The Contractor may use the Owner's electrical service for powering required electrical systems used during construction. The Owner will pay for current during construction.
  - 1. The Contractor shall not abuse the use of electrical service by leaving on lights, equipment, etc. when not necessary.
  - 2. Any damage resulting from improper connection or overload shall be repaired at the expense of the Contractor and in a manner acceptable to the Owner.
- B. Water: Water will be made available by the Owner at the nearest hose bib. The Owner will pay for water used during construction.

**9.9 SECURITY**

- A. Watchman: The Contractor shall be solely responsible for the safety of their own materials, equipment, tools, etc. on the site, and shall, if he deems it necessary or expedient, employ at their own expense the services of a competent watchman. The Owner shall have no responsibility for the safety of the Contractor's materials, equipment, tools, etc., or any damage which may be done to the same due to vandalism, theft or any other cause.

**PART 10 - SCOPE AND QUALITY OF WORK**

**10.1 SCOPE OF WORK**

- A. The Work included under these Drawings and Specifications consists of furnishing all items, materials, operations, or methods listed, mentioned, indicated or scheduled on the Drawings and/or in this Project Manual, including all labor, materials, and equipment, necessary and required for the construction and completion of the Project in accordance with the Contract Documents.

**10.2 QUALITY OF WORKMANSHIP**

- A. The quality of workmanship shall be an important consideration in acceptance or rejection of Work. It is expected that the Contractor shall provide qualified workmen who can produce a first quality project.

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Work which fails to achieve a first quality standard may be considered defective and rejected. Such Work shall be removed and replaced with new Work of first quality.

## **PART 11 - CONSTRUCTION OPERATIONS**

### **11.1 REMODELING INSTRUCTIONS**

- A. The Contractor understands that, in part, this is a remodeling and as such certain items cannot be fully illustrated nor explained without field observation. Thus, the Contractor has visited and examined the site and existing building in detail and made allowance for conditions that will affect the Work indicated or reasonably implied by the Drawings and these Specifications.

### **11.2 USE OF SITE**

- A. Site storage shall be confined to areas which do not interfere with the operations of the Owner.
- B. Limit use of site for work and storage of items relative to this project.
- C. Do not unreasonably encumber site with materials, debris or equipment.
- D. No off-street parking areas will be available for construction personnel to use during construction work. Public, on-street parking is available in the area in accordance with City of Manhattan ordinances. The Contractor shall cooperate with adjacent property owners with respect to on-street parking in front of their property.

### **11.3 PROTECTION OF WORK AND PROPERTY**

- A. The Contractor shall take charge of and assume general responsibility for proper protection of the site and building during construction. The Contractor shall further provide substantial enclosures at all openings as necessary for protection of the building and its inhabitants.
- B. Protect the existing building or previously placed work by suitable coverings or other protections during installation of subsequent work. Clean off any foreign materials accidentally deposited on finish surfaces and, where such would stain, corrode or otherwise disfigure, clean same immediately with material that will not damage finished work.
- C. Protect work in place requiring job-finishing until such finishing has been completed. In cold weather, protect work from damage from frost and freezing. In hot weather, protect work from rapid drying out.

### **11.4 SAFETY**

- A. 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.
- B. Precaution shall be exercised at all times for the protection of persons (including employees) and property. The safety provisions of applicable laws and building and construction codes shall be observed. Machinery, equipment and hazardous conditions shall be guarded, including warnings against hazards, promulgating safety regulations, and notifying owners and users of adjacent sites and utilities or eliminated in accordance with the safety provisions of the Manual of Accident Prevention in Construction, published by the Associated General Contractors of America; and Occupational Safety and Health Standards, published by Occupational Safety and Health Administration, U.S. Department of Labor; or their successor publications., latest and best edition, amendments or addenda.
- C. All Contractors, Subcontractors and Suppliers hereby agree to comply with applicable occupational safety, health and environmental laws, regulations, standards, codes and/or ordinances at all times from inception through completion of this Contract. This includes, but is not limited to, the Hazard Communication Standard under the Occupational Safety and Health Act (for information and free assistance, contact the Kansas Department of Human Resources, Division of Industrial Safety and Health, 512 S.W. 6<sup>th</sup> Street, Topeka, Kansas 66603-3150, telephone 913-296-4386); and the Emergency Planning and Community Right-to-Know Act (for information and free assistance, contact the Kansas Department of Health and Environment Right-to-Know Program, 109 S.W. 9th Street, Suite 501, Topeka, Kansas 66612-1290, telephone (785-296-1690).

- D. The Contractor shall give notices and comply with applicable laws, ordinances, rules, regulations, and lawful orders of authorities having jurisdiction bearing on safety of persons or property or their protection from damage, injury, or loss.
- E. When use or storage of 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.
- F. The Contractor shall be responsible for the safety of all persons while on the construction site. The Contractor shall maintain construction area safety which may include providing and maintaining warning signs, lights, signal devices, barricades, fences, and other devices appropriately located on site which shall give proper and understandable warning to all persons of danger, entry onto land, or equipment as required by code and all other regulatory requirements.
- G. If the Contractor encounters on the site material believed to be hazardous which has not been rendered harmless, the Contractor shall immediately stop Work in the area affected and report the condition to the Architect and the Owner in writing. The Work in the affected area shall not thereafter be resumed except by written agreement of the Contractor if in fact the material is hazardous and has not been rendered harmless. Hazardous materials are those as defined by Kansas Department of Health and Environment's response list.
- H. The Contractor shall promptly take precautions which are necessary and adequate against conditions created during the progress of the Contractor's activities hereunder which involve a risk of bodily harm to persons or a risk of damage to property. The Contractor shall continuously inspect Work, materials, and equipment to discover any such hazardous conditions and shall be solely responsible for correction of any such conditions.
- I. It shall be the sole responsibility of the Contractor to enforce or direct safety rules or procedures. It shall not be the responsibility of the Owner or Architect to enforce or direct safety rules or procedure.
- J. The Contractor shall hold harmless and indemnify the Owner and Architect from damages and expenses from any and all claims related to this Article for bodily injury or property damage or expenses incurred by any person or firm.
- K. The Owner reserves the right to issue a stop work order in the event that building occupants may be placed in danger.
- L. The Contractor shall immediately inform the Owner of all accidents requiring medical attention.
- M. In the event that school activities are suspended due to medical reasons, the Contractor shall stop all Work until the Owner resumes school activities.

**11.5 MATERIALS AND EQUIPMENT**

- A. The intent of these Specifications is to allow ample opportunity for the Contractor to use the Contractor's ingenuity and abilities to prosecute the work to the Contractor's and the Owner's best advantage, and to permit maximum competition in bidding on standards of materials and equipment required.
- B. These Specifications may identify the required materials and equipment by naming one or more manufacturers brand, model, catalog number and/or other identification. Bids shall include only those brands named, except as hereinafter provided.
- C. Where materials or equipment are described but not named, provide first-quality items, adequate in every respect for the intended use. Such items are subject to the Architect's approval prior to procurement.

**11.6 RECEIVING AND STORING MATERIALS**

- A. On receipt of materials, check for in-transit damage in ample time to replace any damaged materials prior to installation time.
- B. Whenever possible, deliver materials and equipment to the project site in the manufacturer's original package, keeping labels intact until final cleaning. Where items are to be job-assembled, components shall be labeled, tagged, or otherwise properly identified until incorporated in project.
- C. The Contractor shall assume full responsibility for materials stored on the site. Transport and store materials in a manner to prevent deterioration, staining, soiling and intrusion of foreign materials subject to damage from elements such as water, snow, ice, or dust. Provide proper storage temperature for materials subject to damage by freezing, frost, or excessive heat.
- D. Remove from premises, and replace with new, any materials showing deterioration or damage, unless the Architect has given permission to repair damaged materials.

- E. Relocate any stored products that interfere with operations of the Owner.
- F. All stored materials shall be contained within fenced areas.

**11.7 APPROPRIATE MATERIALS AND INSTALLATIONS**

- A. Furnish materials and equipment that have been properly inspected and tested in accordance with accepted industry standards. Make field laboratory tests where specified herein, the cost of such being paid for by the Contractor, unless otherwise specified.
- B. The Contractor, and the Contractor's subcontractors and material suppliers shall observe the Drawings and Project Manual and should any material and/or its installation be indicated or specified in a manner not approved by the material manufacturer, notify the Architect and receive their instructions.
- C. Materials prohibited by governmental authority or regulation from being used in construction shall not be used on this project.

**11.8 INSTALLATION**

- A. Furnish, apply, install, clean and condition materials per manufacturer's printed directions, unless otherwise indicated or specified.
- B. The manufacturer's printed directions must be on the site prior to and during installation of materials.
- C. Make field check of actual dimensions before installing products.
- D. Install materials only when conditions of temperature, moisture, humidity, and condition of adjacent building components are conducive to achieving best installation results.
- E. Fabricate and install materials true to line, plumb and level, unless indicated otherwise. Leave finished surfaces smooth and flat or of smooth contour where indicated, free from wrinkles, warps, scratches, dents and other imperfections.
- F. Do not disturb materials requiring curing time until appropriate curing time has transpired.
- G. Conduct work in a manner to avoid injury to previously placed work.

**11.9 CLOSING-IN WORK**

- A. Do not enclose or cover any piping or other items until proper test and inspection has been made by Architect and/or proper authorities.
- B. Notify the Architect to inspect any work when placing of subsequent work would prevent observation of previous work.

**11.10 REPAIRS**

- A. Unless the Architect grants permission to repair any defective Work, remove defective Work from project and replace with new Work in accordance with Contract Documents. If permission is granted, repair according to Architect's direction. Permission to repair any such Work shall not constitute a waiver of Architect's right to require complete replacement of defective work if repair operation does not restore quality and appearance of member or surface to Architect's satisfaction.

**11.11 UNFAVORABLE CONSTRUCTION CONDITIONS**

- A. During unfavorable weather or other unsuitable construction conditions, the Contractor shall confine operations to Work that will not be affected adversely thereby. No portion of the Work shall be installed under conditions that would adversely affect the quality or efficiency thereof, unless special means or precautions are taken by the Contractor to perform the Work in a proper and satisfactory manner.
- B. In the event of temporary suspension of work, or during inclement weather, or whenever the Architect shall direct, the Contractor and their subcontractors shall carefully protect their work and materials against damage or injury from the weather. If, in the opinion of the Architect, any work or materials that have been damaged or injured by reason of failure to protect the work, such materials shall be removed and replaced at the expense of the Contractor.

**11.12 ACCESS**

- A. Contractor shall provide adequate access to the site for both construction and the Owner's operations.

**11.13 YARD MAINTENANCE AND SITE CLEANING**

- A. The Contractor shall maintain the construction site in a clean manner.

- B. Pick up litter within the project site and any litter within 50 feet of the project site, along access routes, in the Contractor's storage areas, and any construction debris outside these areas. Debris is to be placed in the Contractor's trash containers. The Contractor is responsible for all removal of construction debris.
- C. Power wash the street and sidewalks after the Contractor's vehicles have left tracks on the way to or from the project site. Remove clods of dirt, etc, and remove from site.
- D. Street sweep access routes used by the Contractor and subcontractors to the edge of Owner's property as well as provide follow up cleaning (broom and wash).
- E. Remove marks and stains from paved surfaces caused by tires, oils, fuels, solvents, etc.
- F. The Contractor and each Subcontractor shall follow the Best Management Practices as outlined by the U.S. Environmental Protection Agency.

## **PART 12 - PAYMENTS**

### **12.1 PAYMENTS TO THE CONTRACTOR**

- A. Payment shall be made as outlined in the Instructions to Bidders. Each Application for Payment shall be consistent with previous applications and payments (if any) as certified by the Architect and paid by the Owner.
- B. Payment Application Forms: Use AIA Document G702 and Continuation Sheets G703 as the form for Application for Payment. Other forms having identical information may be utilized if approved by the Architect.
- C. Schedule of Values: Unless otherwise approved by the Architect, the schedule of values on Continuation Sheets G703 shall be subdivided into labor, material and other categories. The schedule of values shall be provided one week prior to the Pre-Construction Conference.
  - 1. No individual item shall exceed the following percentage of the total contract value:
    - a. 8% maximum per item.
  - 2. Include at the top of the schedule of values one line item titled "General Contractor Project Closeout Requirements." Unless otherwise agreed with the Architect, certification for payment of this item shall be approved only on the final application for payment. To receive payment for this line item all subcontractors and material suppliers shall have been paid in full, and project closeout paperwork and other requirements have been received and approved or accepted. The "General Contractor Project Closeout Requirements" amount shall not be less than the following percentage of original total contract value:
- D. Payment for materials stored off site in excess of \$10,000.00 in value may require documentation as requested by the Architect. Such documentation includes items such as a bill of sale, digital photographs, and notarized statements.
- E. Payment Application Times: Unless otherwise approved by the Architect, each progress payment application date shall be as of the fifteenth day of a month, with the period of construction Work covered by each Application for Payment as the previous calendar month.
  - 1. Submit three hardcopies (or one PDF copy) of the Application for Payment, completed and notarized, supported by any data requested by the Owner or Architect to substantiate the Contractor's right to payment.
  - 2. Any Applications for Payment received after the required date will fall into the next payment period.
  - 3. Provided an Application for Payment is received by the Architect no later than the required date, payment shall be made by the Owner not later than forty-five days after the Architect receives the Application for Payment.

## **PART 13 - CHANGES**

### **13.1 DELAYS DUE TO WEATHER CONDITIONS**

- A. The following are considered reasonable anticipated days of adverse weather on a monthly basis and shall be included in the Contract Time.
  - 1. January - 10 days.
  - 2. February - 9 days.

3. March - 7 days.
  4. April - 6 days.
  5. May - 4 days.
  6. June - 5 days.
  7. July - 5 days.
  8. August - 4 days.
  9. September - 3 days.
  10. October - 2 days.
  11. November - 4 days.
  12. December - 7 days.
- B. An adverse weather day is defined as a calendar day where at least 4 hours of work on the principal unit of Work underway, between the hours of 8:00 am and 5:00 pm, cannot be completed because of weather conditions that cannot be mitigated by reasonable action on the part of the Contractor. To meet the criteria for an adverse weather day, one of more or the following requirements must be met within the work day and cause and delay a scheduled critical path construction activity:
1. Rainfall equal to or greater than 0.10 inches.
  2. Average temperatures less than 20 degrees Fahrenheit.
  3. Snowfall in excess of 1.0 inches.
  4. Sustained wind speed in excess of 25 mph.
- C. The weather experienced at the project site during the contract period must be found to be more severe than the adverse weather to be anticipated for the project location during any given month.
- D. The delay must be related to the unusually severe weather and not due to the Contractor's fault, negligence, or their failure to maintain the approved construction schedule.
- E. Adverse weather days shall be recorded and submitted, in writing, to the Architect on a monthly basis.
1. The Contractor shall submit documentation indicating cause, effect and delay including the adverse weather criteria on each weather day that occurred during the month to be evaluated. Any day that is submitted that does not meet the criteria may be deemed not to qualify as an adverse weather day.
  2. Documentation of adverse weather criteria shall be submitted in their original form from a recognized weather recording station, newspaper, computer information service, or other Architect-approved source. In the event there is no weather recording source at or near the project location, the Contractor shall record the daily weather information in a format acceptable to the Architect. The weather documentation source should be determined at the pre-construction meeting.
- F. The Architect will make a determination on the actual impact of adverse weather on distinct construction activities subject to weather conditions. The Architect will take into account weather conditions in the months preceding and following the adverse weather month, and assess the overall impact on the scheduled critical path.
- G. Adverse weather days beyond those listed may be allowed to extend the Contract Time only if authorized by the Architect and Owner.

### 13.2 CHANGE ORDERS

- A. The Contractor, in connection with any proposal he makes for a contract modification, shall furnish a price breakdown itemized as required by the Owner or Architect. An analysis shall include all material, labor, equipment, subcontract and overhead costs, as well as profit. It shall cover all work involved in the modification whether such work was deleted, added or changed. Any amount claimed for subcontracts shall be supported by a similar price breakdown. If the proposal includes a time extension, provide a justification for the extension.
- B. Charges or credits to the contract sum for work shall be determined by one or more of the following methods:
1. Unit or lump sum prices previously stipulated and approved in the Contractor's original proposal.
  2. An agreed lump sum proposal with an itemized breakdown on major items of labor and materials including:
    - a. Material quantities and unit costs.
    - b. Labor breakdown by trade and unit costs.
    - c. Construction equipment.

- d. Workers' compensation and liability insurance.
- e. Employment taxes under FICA and FUTA.
- 3. Cost-plus work, with a not-to-exceed maximum dollar limit, based upon the actual cost of the work performed including those items above.
- C. No overhead, profit or fee shall be included in the breakdown of costs in either 2 or 3 above. To the total of these costs, the Contractor may add a negotiated amount for overhead, profit or fee, not exceeding the maximum amounts shown below, which shall be considered to include, but not limited to the costs of insurance (other than liability), bond, jobsite staff and office expense, small tools and incidental job burdens.
  - 1. To the Contractor on work performed by other than their own forces:
    - a. Overhead = 0%, Profit = 0%, Fee = 10%.
  - 2. To a first level subcontractor on work performed by their subcontractors:
    - a. Overhead = 0%, Profit = 0%, Fee = 10%.
  - 3. To the Contractor and/or their subcontractors for that portion of work performed with their respective forces:
    - a. Overhead = 10%, Profit = 10%, Fee = 0%.
- D. On proposals covering both increases and decreases in the amount of the Contract, the application of overhead and profit percentages shall be on the net increase in direct costs for the Contractor or subcontractor performing the work.

**13.3 CHANGE ORDERS FOR ADDITIONAL INSPECTIONS OR UNCOVERING AND CORRECTING WORK**

- A. Additional Substantial Completion Inspections: The Contractor shall be responsible for the costs inspections to determine Substantial Completion beyond the initial inspection and one additional inspection. In such case an appropriate Change Order shall be issued deducting from payments then or thereafter due the Contractor the costs of the Architect's additional services and expenses made necessary by such inspections.
- B. Additional Final Completion Inspections: The Contractor shall be responsible for the costs of additional inspections to determine final completion. In such case an appropriate Change Order shall be issued deducting from payments then or thereafter due the Contractor the costs of the Architect's additional services and expenses made necessary by such additional inspections. Such Change Order shall not require the approval of the Contractor.
- C. Additional Expenses Related to Uncovering and Correcting Work: In the event the Contractor's work must be uncovered, rejected and corrected, an appropriate Change Order shall be issued deducting from payments then or thereafter due the Contractor the costs of the Architect's additional services and expenses made necessary by such rejected work. Such Change Order shall not require the approval of the Contractor.

**PART 14 - CORRECTION PERIOD**

**14.1 TWO YEAR CORRECTION PERIOD**

- A. Within two years following the date of Substantial Completion the Contractor shall, upon notice from either the Owner or Architect, promptly correct defects in materials and/or workmanship that have appeared in any of the work. Such correction shall be to a state of conditions originally required by the Contract Documents and at the Contractor's expense.

**PART 15 - PROJECT CLOSEOUT REQUIREMENTS**

**15.1 RECORD DRAWINGS**

- A. The Contractor shall maintain a clean set of drawings and specifications to be used solely for recording all changes from the original drawings and specifications. On completion of the project, a new set of prints shall be obtained from the Architect, and the Contractor shall have a competent draftsman redraw neatly in red pencil all changes noted on the record set, and change orders issued during construction. If the



field set is kept in a neat manner, it may be submitted for the final set. Final payment will not be authorized until the final record set is received and checked for completeness.

**15.2 PROJECT COMPLETION**

- A. The term "Substantial Completion" is defined as completion of the entire Work required by the contract documents, including submittal of all required closeout paperwork.
- B. Before being eligible for final payment, the Contractor shall deliver to the Owner, through the Architect:
  - 1. Record Documents: 1 copy of record documents for the project.
  - 2. Completed Punch Lists: 1 copy of all completed punch lists.
  - 3. Inspection Reports: 2 copies of each inspection report provided by an authority having jurisdiction.
  - 4. Extra Materials Receipts: 1 copy of each form signed by owner's representative who received extra materials required by the specifications.
  - 5. Warranties: 2 copies of all manufacturer's and special warranties specified for materials, equipment and installation.
  - 6. Subcontractors/Suppliers List: 2 copies of a list showing all subcontractors and material suppliers for the project. The list shall include company name, address, phone number, and contact person.
  - 7. Dump Sites: 2 copies of a list showing dump sites used for disposal of construction materials. Include the address, owner's name, and type of material dumped at each site.
  - 8. Payment Affidavit: 2 copies of Contractor's Affidavit of Payment of Debts and Claims, on AIA Form G706, only.
  - 9. Contractor Lien Release: 2 copies of Contractor's Affidavit of Release of Liens, on AIA Form G706A, only.
  - 10. Subcontractor Lien Releases: 2 copies of subcontractor's release of liens, from subcontractors as selected by Owner or Architect, and on form as approved by Architect.
  - 11. Consent of Surety: 2 copies of Consent of Surety to Final Payment, AIA Form G707 only.
  - 12. Sales Tax Exemption Certificate: 2 copies of the completed Sales Tax Exemption Project Completion Certificate.
  - 13. Lien Waivers: 1 notarized copy of lien waivers (or release of claims statement) from each subcontractor and material supplier stating that each has been paid in full for all work and materials on the project.
  - 14. If required by Owner or Architect, other data establishing payment of or satisfaction of all obligations, such as receipts, releases and waivers of liens rising out to the Contract, to the extent and in such form as may be designated by Owner or Architect.
  - 15. If required by Owner or Architect, one copy each of all invoices properly identified with the Sales Tax Exemption number as required by the State of Kansas. (The Owner will retain such invoices for a period of not less than 5 years.)

**END OF SECTION 00 7300**

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## SECTION 02 4119 - SELECTIVE DEMOLITION

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section Includes:
  - 1. Demolition and removal of selected portions of building.

#### 1.2 MATERIALS OWNERSHIP

- A. Demolition waste becomes property of Contractor.

#### 1.3 INFORMATIONAL SUBMITTALS

- A. Schedule of Selective Demolition Activities: Indicate the following:
  - 1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity. Ensure Owner's on-site operations are uninterrupted.

#### 1.4 FIELD CONDITIONS

- A. Owner will occupy site adjacent selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
- B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- C. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- D. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
  - 1. If suspected hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Hazardous materials will be removed by Owner under a separate contract.

#### 1.5 COORDINATION

- A. Arrange selective demolition schedule so as not to interfere with Owner's operations.

### PART 2 - PRODUCTS

#### 2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped before starting selective demolition operations.
- B. Survey of Existing Conditions: At Contractor's option, record existing conditions by use of preconstruction photographs or video.
  - 1. Provide photographs or video of conditions that might be misconstrued as damage caused by selective demolition operations.

#### 3.2 PROTECTION

- A. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to buildings.
  - 1. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of building.

2. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.

B. Remove temporary barricades and protections where hazards no longer exist.

### **3.3 SELECTIVE DEMOLITION, GENERAL**

A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:

1. Proceed with selective demolition systematically, from higher to lower level. Complete selective demolition operations before disturbing supporting members.
2. Do not use cutting torches without Hot Work Permit approval.
3. Dispose of demolished items and materials promptly.

B. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, parking, walks, and other occupied and used facilities.

C. Existing to Remain: Protect construction indicated to remain against damage and soiling during selective demolition.

### **3.4 DISPOSAL OF DEMOLISHED MATERIALS**

A. Remove demolition waste materials from Project site and dispose of them in a construction and demolition waste landfill acceptable to authorities having jurisdiction.

1. Do not allow demolished materials to accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.

B. Burning: Do not burn demolished materials.

### **3.5 CLEANING**

A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

**END OF SECTION 02 4119**

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## SECTION 05 5000 - METAL FABRICATIONS

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section Includes:
  - 1. Guard railings.
  - 2. Metal ladders.

#### 1.2 ACTION SUBMITTALS

- A. Shop Drawings: Show fabrication and installation details for metal fabrications.
  - 1. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items.

#### 1.3 INFORMATIONAL SUBMITTALS

- A. Welding certificates.
- B. Product test reports for non-shrink grout.

#### 1.4 QUALITY ASSURANCE

- A. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1, "Structural Welding Code - Steel."

#### 1.5 PROJECT CONDITIONS

- A. Field Measurements: Verify actual locations of walls and other construction contiguous with metal fabrications by field measurements before fabrication.

### PART 2 - PRODUCTS

#### 2.1 METALS, GENERAL

- A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.

#### 2.2 FERROUS METALS

- A. Plates, Shapes, and Bars: ASTM A 36.
- B. Steel Channels, Angles, M-Shapes, S-Shapes: ASTM A572, Grade 50.
- C. Pipe: ASTM A 53, Type F or Type S, Grade A, Standard Weight (Schedule 40), unless another grade and weight are required by structural loads.
- D. Steel Tubing: ASTM A 500, cold-formed steel tubing.
- E. Cast Iron: Either gray iron, ASTM A 48, or malleable iron, ASTM A 47, unless otherwise indicated.

#### 2.3 FASTENERS

- A. General: Unless otherwise indicated, provide Type 304 stainless-steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B 633 or ASTM F 1941, Class Fe/Zn 5, at interior walls. Select fasteners for type, grade, and class required.
- B. Post-Installed Anchors: Torque-controlled expansion anchors or chemical anchors.
  - 1. Material for Exterior Locations and Where Stainless Steel is Indicated: Alloy Group 1 stainless-steel bolts, ASTM F 593, and nuts, ASTM F 594.

#### 2.4 MISCELLANEOUS MATERIALS

- A. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.

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## 2.5 FABRICATION, GENERAL

- A. Shop Assembly: Preassemble items in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.
- B. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
- C. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.
- D. Form exposed work with accurate angles and surfaces and straight edges.
- E. Weld corners and seams continuously to comply with the following:
  - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
  - 2. Obtain fusion without undercut or overlap.
  - 3. Remove welding flux immediately.
  - 4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.
- F. Provide for anchorage of type indicated; coordinate with supporting structure. Space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.

## 2.6 METAL LADDERS

- A. General:
  - 1. Comply with ANSI A14.3.
- B. Steel Ladder:
  - 1. Fit rungs in centerline of siderails; plug-weld and grind smooth on outer rail faces.

## 2.7 GUARD RAILING CONNECTIONS

- A. Welded Connections: Use fully welded joints for permanently connecting railing components. Comply with requirements for welded connections in "Fabrication" Article whether welding is performed in the shop or in the field.

## 2.8 FINISHES, GENERAL

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Finish metal fabrications after assembly.
- C. Finish exposed surfaces to remove tool and die marks and stretch lines, and to blend into surrounding surface.

## 2.9 STEEL AND IRON FINISHES

- A. Galvanizing: Hot-dip galvanize items as indicated to comply with ASTM A 153 for steel and iron hardware and with ASTM A 123 for other steel and iron products. Remove burrs and other imperfections.

# PART 3 - EXECUTION

## 3.1 INSTALLATION, GENERAL

- A. Fastening to In-Place Construction: Provide anchorage devices and fasteners where metal fabrications are required to be fastened to in-place construction. Provide threaded fasteners for use with substrate and other connectors.

## 3.2 ADJUSTING AND CLEANING

- A. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas. Repair hot-dip galvanizing to comply with the following:
  - 1. Hot Galvanizing Repair Low-Melting Point Zinc Alloy Repair Rods:
    - a. Zinc Cadmium: Liquid temperature 518°F-527°F.
    - b. Zinc-Tin Copper Alloys: Liquid temperature 660°F-670°F.

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- 1) Zinc-tin copper alloys must be applied while in a semi-solid state in the preferred application temperature range from 480°F-570°F.
  2. Repair Procedures Using Zinc-Based Solder:
    - a. Surfaces must be cleaned using a wire brush, a light grinding action or a mild blasting. To ensure a smooth reconditioned coating can be affected, surface preparation shall extend into the surrounding, undamaged galvanized coating.
    - b. If the area to be repaired includes welds, all weld flux residue and weld spatter shall be removed by wire brush, chipping, grinding or power scaling.
    - c. Areas to be repaired shall be preheated to at least 600°F.
      - 1) Do not heat the surface over 750°F or allow the surrounding galvanized coating to be burned. Wirebrush the surface to be reconditioned during preheating and pre-flux.
        - a) Pre-flux is required when solder will not adhere to steel surface.
    - d. Rub the cleaned, preheated welds/areas with the repair rod to deposit an evenly distributed layer of zinc alloy.
    - e. Thickness shall match original hot-dip galvanizing.
    - f. Rinse with water or wipe with a damp cloth to remove flux residue.

**END OF SECTION 05 5000**

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**SECTION 06 1000 - ROUGH CARPENTRY**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. Section includes miscellaneous rough carpentry for rooftop blocking, and nailers.

**1.2 DELIVERY, STORAGE, AND HANDLING**

- A. Stack wood products flat with spacers beneath and between each bundle to provide air circulation. Protect wood products from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

**PART 2 - PRODUCTS**

**2.1 WOOD PRODUCTS, GENERAL**

- A. Lumber: DOC PS 20 and applicable rules of any rules-writing agency certified by the ALSC Board of Review. Grade lumber by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
  - 1. Factory mark each piece of lumber with grade stamp of grading agency.
  - 2. Dress lumber, S4S, unless otherwise indicated.
- B. Maximum Moisture Content of Lumber: 19 percent unless otherwise indicated.

**2.2 MISCELLANEOUS LUMBER**

- A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction.
- B. Dimension Lumber Items: Standard, Stud, or No. 3 grade lumber of any species.

**2.3 FASTENERS**

- A. General: Fasteners shall be of size and type to securely support and fasten to substrates.

**PART 3 - EXECUTION**

**3.1 INSTALLATION, GENERAL**

- A. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry accurately to other construction.
- B. Sort and select lumber so that natural characteristics do not interfere with installation or with fastening other materials to lumber. Do not use materials with defects that interfere with function of member or pieces that are too small to use with minimum number of joints or optimum joint arrangement.
- C. Use steel common nails unless otherwise indicated. Select fasteners of size that will not fully penetrate members where opposite side will receive finish materials. Make tight connections between members. Install fasteners without splitting wood. Drive nails snug but do not countersink nail heads.

**3.2 PROTECTION**

- A. Protect rough carpentry from weather. If, despite protection, rough carpentry becomes wet enough that moisture content exceeds that specified, allow to dry before continuing roofing work, or replace rough carpentry.

**END OF SECTION 06 1000**

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## SECTION 07 5423 - THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section Includes:
  1. Adhered thermoplastic polyolefin (TPO) roofing system.
  2. Roof insulation.
  3. Cover board.
  4. Walkways.

#### 1.2 DEFINITIONS

- A. Roofing Terminology: Definitions in ASTM D 1079 and glossary in NRCA's "The NRCA Roofing Manual: Membrane Roof Systems" apply to Work of this Section.

#### 1.3 PREINSTALLATION MEETINGS

- A. Preinstallation Roofing Conference: Conduct conference at Project site.
  1. Meet with Owner, Architect, roofing Installer, and installers whose work interfaces with or affects roofing, including installers of roof accessories and roof-mounted equipment.
  2. Review methods and procedures related to roofing installation, including manufacturer's written instructions.
  3. Review and finalize construction schedule, and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
  4. Examine deck substrate conditions and finishes for compliance with requirements, including fastening.
  5. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that affects roofing system.
  6. Review temporary protection requirements for roofing system during and after installation.
  7. Review roof observation and repair procedures after roofing installation.

#### 1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
  1. For insulation and roof system component fasteners, include copy of FM Approvals' RoofNav listing.
- B. Shop Drawings: Include roof plans, sections, details, and attachments to other work, including the following:
  1. Layout and thickness of insulation.
  2. Base flashings and membrane termination details.
  3. Flashing details at penetrations.
  4. Fastening patterns for corner, perimeter, and field-of-roof locations.
- C. Samples for Verification: For the following products:
  1. Roof membrane and flashings, of color required.
  2. Walkway pads or rolls, of color required.
- D. Wind Uplift Resistance Submittal: For roofing system, indicating compliance with wind uplift performance requirements.

#### 1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer and manufacturer.
- B. Manufacturer Certificates:
  1. Performance Requirement Certificate: Signed by roof membrane manufacturer, certifying that roofing system complies with requirements specified in "Performance Requirements" Article.
    - a. Submit evidence of compliance with performance requirements.



- 2. Special Warranty Certificate: Signed by roof membrane manufacturer, certifying that all materials supplied under this Section are acceptable for special warranty.
- C. Product Test Reports: For roof membrane and insulation, for tests performed by a qualified testing agency, indicating compliance with specified requirements.
- D. Evaluation Reports: For components of roofing system, from ICC-ES.
- E. Field Test Reports:
  - 1. Fastener-pullout test results and manufacturer's revised requirements for fastener patterns.
- F. Sample Warranties: For manufacturer's special warranties.

**1.6 CLOSEOUT SUBMITTALS**

- A. Maintenance Data: For roofing system to include in maintenance manuals.
- B. Certified statement from existing adjacent roof membrane manufacturer stating that existing adjacent roof warranty has not been affected by Work performed under this Section.

**1.7 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: A qualified manufacturer that is UL listed and listed in FM Approvals' RoofNav for roofing system identical to that used for this Project.
- B. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's special warranty.

**1.8 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, approval or listing agency markings, and directions for storing and mixing with other components.
- B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.
  - 1. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.
- C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.
- D. Handle and store roofing materials, and place equipment in a manner to avoid permanent deflection of deck.

**1.9 FIELD CONDITIONS**

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.

**1.10 WARRANTY**

- A. Special Warranty: Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period.
  - 1. Special warranty includes roof membrane, base flashings, roof insulation, fasteners, cover boards, and other components of roofing system.
  - 2. Warranty shall include damage by hail up to 2 inches in diameter, and wind speeds up to 90 mph.
  - 3. Warranty Period: 30 years from date of Substantial Completion.
- B. Special Project Warranty: Submit roofing Installer's warranty, on warranty form at end of this Section, signed by Installer, covering the Work of this Section, including all components of roofing system such as roof membrane, base flashing, roof insulation, fasteners, cover boards, and walkway products, for the following warranty period:
  - 1. Warranty Period: Two years from date of Substantial Completion.

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## PART 2 - PRODUCTS

### 2.1 PERFORMANCE REQUIREMENTS

- A. General Performance: Installed roofing system and flashings shall withstand specified uplift pressures, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Roof system and flashings shall remain watertight.
  - 1. Accelerated Weathering: Roof membrane shall withstand 2000 hours of exposure when tested according to ASTM G 152, ASTM G 154, or ASTM G 155.
  - 2. Impact Resistance: Roof membrane shall resist impact damage when tested according to ASTM D 3746, ASTM D 4272, or the "Resistance to Foot Traffic Test" in FM Approvals 4470.
- B. Material Compatibility: Roofing materials shall be compatible with one another and adjacent materials under conditions of service and application required, as demonstrated by roof membrane manufacturer based on testing and field experience.
- C. Wind Uplift Resistance: Design roofing system to resist the following wind uplift pressures when tested according to FM Approvals 4474, UL 580, or UL 1897. Contractor shall calculate loads, but loads shall be no less than the following:
  - 1. Zone 1 (Roof Area Field): 27.9 lbf/sq. ft.
  - 2. Zone 2 (Roof Area Perimeter): 46.6 lbf/sq. ft.
  - 3. Zone 3 (Roof Area Corners): 70.3 lbf/sq. ft.
- D. FM Approvals' RoofNav Listing: Roof membrane, base flashings, and component materials shall comply with requirements in FM Approvals 4450 or FM Approvals 4470 as part of a roofing system, and shall be listed in FM Approvals' RoofNav for Class 1 or noncombustible construction, as applicable. Identify materials with FM Approvals Certification markings.
  - 1. Fire/Windstorm Classification: Class 1A-90 minimum.
  - 2. Hail-Resistance Rating: SH.
- E. Exterior Fire-Test Exposure: ASTM E 108 or UL 790, Class A; for application and roof slopes indicated; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

### 2.2 THERMOPLASTIC POLYOLEFIN (TPO) ROOFING

- A. TPO Sheet: ASTM D 6878/D 6878M, internally fabric- or scrim-reinforced, TPO sheet.
  - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. Carlisle SynTec Incorporated.
    - b. Firestone Building Products.
    - c. GAF Materials Corporation.
    - d. GenFlex Roofing Systems.
    - e. Johns Manville; a Berkshire Hathaway company.
    - f. Mule-Hide Products Co., Inc.
    - g. Versico Roofing Systems.
  - 2. Source Limitations: Obtain components for roofing system from roof membrane manufacturer or manufacturers approved by roof membrane manufacturer.
  - 3. Thickness: 80 mils, nominal.
  - 4. Exposed Face Color: White.

### 2.3 AUXILIARY ROOFING MATERIALS

- A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with other roofing components.
- B. Sheet Flashing: Manufacturer's standard unreinforced TPO sheet flashing, 55 mils thick, minimum, of same color as TPO sheet.
- C. Prefabricated Pipe Flashings: As recommended by roof membrane manufacturer.
- D. Bonding Adhesive: Manufacturer's standard, water based.
- E. Metal Termination Bars: Manufacturer's standard, predrilled stainless steel or aluminum bars, approximately 1 by 1/8 inch thick; with anchors.

- F. Metal Battens: Manufacturer's standard, aluminum-zinc-alloy-coated or zinc-coated steel sheet, approximately 1 inch wide by 0.05 inch thick, prepunched.
- G. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening roofing components to substrate, and acceptable to roofing system manufacturer.
- H. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, lap sealants, termination reglets, and other accessories.

## **2.4 ROOF INSULATION**

- A. General: Preformed roof insulation boards manufactured or approved by TPO roof membrane manufacturer, approved for use in FM Approvals' RoofNav-listed roof assemblies.
- B. Polyisocyanurate Board Insulation: ASTM C 1289, Type II, Class 1, Grade 2 or Type II, Class 2, Grade 2, felt or glass-fiber mat facer on both major surfaces.
  - 1. Compressive Strength: 20 psi.
  - 2. Size: 48 by 48 inches.
  - 3. Thickness: 1-1/2 inches.

## **2.5 INSULATION ACCESSORIES**

- A. General: Roof insulation accessories recommended by insulation manufacturer for intended use and compatibility with other roofing system components.
- B. Fasteners: Factory-coated steel fasteners with metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening roof insulation and cover boards to nailers, and acceptable to roofing system manufacturer.
- C. Insulation Adhesive: Insulation manufacturer's recommended adhesive formulated to attach roof insulation to substrate or to another insulation layer as follows:
  - 1. Bead-applied, low-rise, one-component or multicomponent urethane adhesive, or full-spread, spray-applied, low-rise, two-component urethane adhesive.
- D. Cover Board: ASTM C 1177/C 1177M, glass-mat, water-resistant gypsum board or ASTM C 1278/C 1278M fiber-reinforced gypsum board.
  - 1. Thickness: 1/2 inch.
  - 2. Surface Finish: Factory primed.

## **2.6 WALKWAYS**

- A. Flexible Walkways: Factory-formed, nonporous, heavy-duty, slip-resisting, surface-textured walkway rolls, approximately 3/16 inch thick and acceptable to roofing system manufacturer.
  - 1. Color: Grey.

# **PART 3 - EXECUTION**

## **3.1 EXAMINATION**

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of the Work.
  - 1. Verify that roof openings and penetrations are in place, curbs are set and braced, and roof-drain bodies are securely clamped in place.
  - 2. Verify that wood blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.
  - 3. Verify that lightweight insulating concrete, composite deck, or coverboard substrate is visibly dry and free of moisture.
  - 4. Verify any damaged sections of lightweight insulating concrete, composite deck, or coverboard decks have been repaired or replaced.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

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**3.2 PREPARATION**

- A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing system installation according to roofing system manufacturer's written instructions. Remove sharp projections.
- B. Perform fastener-pullout tests according to roof system manufacturer's written instructions.
  - 1. Submit test result within 24 hours after performing tests.
    - a. Include manufacturer's requirements for any revision to previously submitted fastener patterns required to achieve specified wind uplift requirements.

**3.3 ROOFING INSTALLATION, GENERAL**

- A. Install roofing system according to roofing system manufacturer's written instructions, FM Approvals' RoofNav assembly requirements, and FM Global Property Loss Prevention Data Sheet 1-29.
- B. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at end of workday or when rain is forecast. Remove and discard temporary seals before beginning Work on adjoining roofing.
- C. Install roof membrane and auxiliary materials to tie in to existing roofing to maintain weathertightness of transition.

**3.4 INSULATION INSTALLATION**

- A. Coordinate installing roofing system components so insulation is not exposed to precipitation or left exposed at end of workday.
- B. Comply with roofing system and roof insulation manufacturer's written instructions for installing roof insulation.
- C. Installation Over Wood Deck:
  - 1. Install insulation with joints staggered not less than 24 inches in adjacent rows.
    - a. Trim insulation neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
    - b. Make joints between adjacent insulation boards not more than 1/4 inch in width.
    - c. Fill gaps exceeding 1/4 inch with insulation.
    - d. Cut and fit insulation within 1/4 inch of nailers, projections, and penetrations.
    - e. Adhere insulation to wood deck.
      - 1) Set insulation in ribbons of bead-applied insulation adhesive, firmly pressing and maintaining insulation in place.
      - 2) Set insulation in a uniform coverage of full-spread insulation adhesive, firmly pressing and maintaining insulation in place.

**3.5 INSTALLATION OF COVER BOARDS**

- A. Install cover boards over insulation with long joints in continuous straight lines with end joints staggered between rows. Offset joints of insulation below a minimum of 6 inches in each direction.
  - 1. Trim cover board neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
  - 2. Cut and fit cover board tight to nailers, projections, and penetrations.
  - 3. Adhere cover board to substrate using adhesive according to FM Approvals' RoofNav assembly requirements and FM Global Property Loss Prevention Data Sheet 1-29 for specified Windstorm Resistance Classification, as follows:
    - a. Set cover board in ribbons of bead-applied insulation adhesive, firmly pressing and maintaining insulation in place.
    - b. Set cover board in a uniform coverage of full-spread insulation adhesive, firmly pressing and maintaining insulation in place.

**3.6 ADHERED ROOFING INSTALLATION**

- A. Adhere roof membrane over area to receive roofing according to roofing system manufacturer's written instructions.
- B. Unroll roof membrane and allow to relax before installing.
- C. Accurately align roof membrane, and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.

- D. Roof Membrane Adhesive: Apply to substrate at rate required by manufacturer, and install roof membrane.
- E. In addition to adhering, mechanically fasten roof membrane securely at terminations, penetrations, and perimeter of roofing.
- F. Apply roof membrane with side laps shingled with slope of roof deck where possible.
- G. Seams: Clean seam areas, overlap roof membrane, and hot-air weld side and end laps of roof membrane and sheet flashings, to ensure a watertight seam installation.
  - 1. Test lap edges with probe to verify seam weld continuity. Apply lap sealant to seal cut edges of roof membrane and sheet flashings.
  - 2. Verify field strength of seams a minimum of twice daily, and repair seam sample areas.
  - 3. Repair tears, voids, and lapped seams in roof membrane that do not comply with requirements.

**3.7 BASE FLASHING INSTALLATION**

- A. Install sheet flashings and preformed flashing accessories, and adhere to substrates according to roofing system manufacturer's written instructions.
- B. Apply bonding adhesive to substrate and underside of sheet flashing at required rate, and allow to partially dry. Do not apply to seam area of flashing.
- C. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.
- D. Clean seam areas, overlap, and firmly roll sheet flashings into the adhesive. Hot-air weld side and end laps to ensure a watertight seam installation.
- E. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.

**3.8 WALKWAY INSTALLATION**

- A. Flexible Walkways:
  - 1. Install flexible walkways at the following locations:
    - a. Locations indicated on Drawings.
  - 2. Provide 2-inch clearance between adjoining pads.
  - 3. Heat weld to substrate or adhere walkway products to substrate with compatible adhesive according to roofing system manufacturer's written instructions.

**3.9 FIELD QUALITY CONTROL**

- A. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion, in presence of Architect, and to prepare inspection report.
  - 1. Coordinate inspection appointment with Architect a minimum of 7 days in advance of inspection.
- B. Repair or remove and replace components of roofing system where inspections indicate that they do not comply with specified requirements.
- C. Additional testing and inspecting, at Contractor's expense, shall be performed to determine if replaced or additional work complies with specified requirements.

**3.10 PROTECTING AND CLEANING**

- A. Protect roofing system from damage and wear during remainder of construction period. When remaining construction does not affect or endanger roofing system, inspect roofing system for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.
- B. Correct deficiencies in or remove roofing system that does not comply with requirements, repair substrates, and repair or reinstall roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.
- C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

**3.11 ROOFING INSTALLER'S WARRANTY**

- A. WHEREAS \_\_\_\_\_ of \_\_\_\_\_, herein called the "Roofing Installer," has performed roofing and associated work ("work") on the following project:
  - 1. Owner: Unified School District 306.
  - 2. Building Name: Press Box Re-Roof at Bishop Stadium.
  - 3. Address: CICO Park.

4. Acceptance Date: \_\_\_\_\_.
  5. Warranty Period: Two years.
  6. Expiration Date: \_\_\_\_\_.
- B. AND WHEREAS Roofing Installer has contracted with the Owner to warrant said work against leaks and faulty or defective materials and workmanship for designated Warranty Period,
- C. NOW THEREFORE Roofing Installer hereby warrants, subject to terms and conditions herein set forth, that during Warranty Period Roofing Installer will, at Roofing Installer's own cost and expense, make or cause to be made such repairs to or replacements of said work as are necessary to correct faulty and defective work and as are necessary to maintain said work in a watertight condition.
- D. This Warranty is made subject to the following terms and conditions:
1. Specifically excluded from this Warranty are damages to work and other parts of the building, and to building contents, caused by:
    - a. lightning;
    - b. peak gust wind speed exceeding 100 mph;
    - c. fire;
    - d. failure of roofing system substrate, including cracking, settlement, excessive deflection, deterioration, and decomposition;
    - e. faulty construction of parapet walls, skylights, vents, equipment supports, and other edge conditions and penetrations of the work;
    - f. activity on roofing by others, including construction contractors, maintenance personnel, other persons, and animals, whether authorized or unauthorized by Owner.
  2. When work has been damaged by any of foregoing causes, Warranty shall be null and void until such damage has been repaired by Roofing Installer and until cost and expense thereof have been paid by Owner or by another responsible party so designated.
  3. Roofing Installer is responsible for damage to work covered by this Warranty but is not liable for consequential damages to building or building contents resulting from leaks or faults or defects of work.
  4. During Warranty Period, if Owner allows alteration of work by anyone other than Roofing Installer, including cutting, patching, and maintenance in connection with penetrations, attachment of other work, and positioning of anything on roof, this Warranty shall become null and void on date of said alterations, but only to the extent said alterations affect work covered by this Warranty. If Owner engages Roofing Installer to perform said alterations, Warranty shall not become null and void unless Roofing Installer, before starting said work, shall have notified Owner in writing, showing reasonable cause for claim, that said alterations would likely damage or deteriorate work, thereby reasonably justifying a limitation or termination of this Warranty.
  5. Owner shall promptly notify Roofing Installer of observed, known, or suspected leaks, defects, or deterioration and shall afford reasonable opportunity for Roofing Installer to inspect work and to examine evidence of such leaks, defects, or deterioration.
  6. This Warranty is recognized to be the only warranty of Roofing Installer on said work and shall not operate to restrict or cut off Owner from other remedies and resources lawfully available to Owner in cases of roofing failure. Specifically, this Warranty shall not operate to relieve Roofing Installer of responsibility for performance of original work according to requirements of the Contract Documents, regardless of whether Contract was a contract directly with Owner or a subcontract with Owner's General Contractor.
- E. IN WITNESS THEREOF, this instrument has been duly executed this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.
1. Authorized Signature: \_\_\_\_\_.
  2. Name: \_\_\_\_\_.
  3. Title: \_\_\_\_\_.

END OF SECTION 07 5423

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## SECTION 07 6200 - SHEET METAL FLASHING

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section includes formed sheet metal fabrications for gutters, downspouts, and roof edge fascias.

#### 1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Include the following:
  - 1. Identification of material, thickness, weight, and finish for each item.
  - 2. Details for forming sheet metal flashing and trim, including profiles, shapes, seams, hems, and dimensions.
  - 3. Details for joining, supporting, and securing sheet metal flashing and trim, including layout of fasteners, cleats, clips, and other attachments.
  - 4. Details of edge conditions, including fascia wrap, eaves, ridges, valleys, and rakes.
- C. Samples: 12-inch length of each type of sheet metal fabrication.
- D. Samples for Color Selection: For each type of sheet metal flashing, trim, and accessory indicated with factory-applied color finishes involving color selections.

#### 1.3 INFORMATIONAL SUBMITTALS

- A. Warranty: Sample of special warranty.

#### 1.4 QUALITY ASSURANCE

- A. Fabricator Qualifications: Shop that employs skilled workers who custom fabricate sheet metal flashing and trim similar to that required for this Project and whose products have a record of successful in-service performance.
- B. Sheet Metal Flashing and Trim Standard: Comply with SMACNA's "Architectural Sheet Metal Manual" unless more stringent requirements are specified or shown on Drawings.
- C. Quality and appearance of custom-fabricated sheet metal flashing and trim is of high importance.

#### 1.5 WARRANTY

- A. Special Warranty on Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace sheet metal flashing and trim that shows evidence of deterioration of factory-applied finishes within specified warranty period.
  - 1. Exposed Panel Finish: Deterioration includes, but is not limited to, the following:
    - a. Color fading more than five Hunter units when tested according to ASTM D 2244.
    - b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
    - c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
  - 2. Finish Warranty Period: 20 years from date of Substantial Completion.

### PART 2 - PRODUCTS

#### 2.1 SHEET METAL

- A. General: Protect mechanical and other finishes on exposed surfaces from damage by applying a strippable, temporary protective film before shipping.
- B. Metallic-Coated Steel Sheet: Restricted flatness steel sheet, metallic coated by the hot-dip process and pre-painted by the coil-coating process to comply with ASTM A 755.
  - 1. Zinc-Coated (Galvanized) Steel Sheet: ASTM A 653, G90 coating designation; structural quality.
  - 2. Surface: Smooth, flat.
  - 3. Exposed Coil-Coated Finish:

- a. Two-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat. Prepare, pre-treat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
4. Color: As selected by Architect from manufacturer's full range.

## 2.2 MISCELLANEOUS MATERIALS

- A. General: Provide materials and types of fasteners, solder, protective coatings, separators, sealants, and other miscellaneous items as required for complete sheet metal flashing and trim installation and recommended by manufacturer of primary sheet metal or manufactured item unless otherwise indicated.
- B. Fasteners: Gasketed self-tapping screws, self-locking rivets and bolts, and other suitable fasteners designed to withstand loads and recommended by manufacturer of primary sheet metal or manufactured item, and the following:
  1. Exposed Fasteners: Heads matching color of sheet metal using factory-applied coating.
- C. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2-inch wide and 1/8-inch thick.
- D. Elastomeric Sealant: ASTM C 920, elastomeric polyurethane polymer sealant; low modulus; of type, grade, class, and use classifications required to seal joints in sheet metal flashing and trim and remain water tight.
- E. Butyl Sealant: ASTM C 1311, single-component, solvent-release butyl rubber sealant; polyisobutylene plasticized; heavy bodied for hooked-type expansion joints with limited movement.

## 2.3 FABRICATION, GENERAL

- A. General: Custom fabricate sheet metal flashing and trim to comply with recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, geometry, metal thickness, and other characteristics of item indicated. Fabricate items at the shop to greatest extent possible.
- B. Select one material from the options indicated and fabricate all items from that material.
  1. Fabricate sheet metal flashing and trim in thickness or weight needed to comply with performance requirements, but not less than that specified for each application and metal.
  2. Obtain field measurements for accurate fit before shop fabrication.
  3. Form sheet metal flashing and trim without excessive oil canning, buckling, and tool marks and true to line and levels indicated, with exposed edges folded back to form hems.
  4. Conceal fasteners and expansion provisions where possible.
- C. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal.
- D. Seams: Fabricate nonmoving seams with flat-lock seams. Form seams and seal with elastomeric sealant or epoxy seam sealer. Rivet joints where necessary for strength.
- E. Edges: Provide hemmed edges on fabrications sheared from coil stock, and exposed to view.

## 2.4 SHEET METAL FABRICATIONS

- A. Fabricate sheet metal flashings from galvanized steel 0.0299-inch thick (22 gauge) minimum.

## PART 3 - EXECUTION

### 3.1 INSTALLATION, GENERAL

- A. General: Anchor sheet metal flashing and trim and other components of the Work securely in place, with provisions for thermal and structural movement. Use fasteners, protective coatings, separators, sealants, and other miscellaneous items as required to complete sheet metal flashing and trim system.

### 3.2 SHEET METAL INSTALLATION

- A. General: Install sheet metal items to produce complete system according to SMACNA recommendations and as indicated on drawings. Coordinate installation of masonry flashings with installation of masonry work, and perimeter roof flashing with installation of roof system.



**3.3 CLEANING AND PROTECTION**

- A. Clean off excess sealants.
- B. Remove temporary protective coverings and strippable films as sheet metal flashing and trim are installed unless otherwise indicated in manufacturer's written installation instructions. On completion of installation, remove unused materials and clean finished surfaces. Maintain in a clean condition during construction.
- C. Replace sheet metal flashing and trim that has been damaged or that has deteriorated beyond successful repair by finish touch-up or similar minor repair procedures.
  - 1. Damage includes the following: Dents, scratches that expose base metal, wrinkles and oil-canning.

**END OF SECTION 07 6200**

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## SECTION 07 9200 - JOINT SEALANTS

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section includes silicone joint sealants.

#### 1.2 ACTION SUBMITTALS

- A. Product Data: For each joint-sealant product indicated.

#### 1.3 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 contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

### 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. Liquid-Applied Joint Sealants: Comply with ASTM C 920 and other requirements indicated for each liquid-applied joint sealant specified, including those referencing ASTM C 920 classifications for type, grade, class, and uses related to exposure and joint substrates.
- C. Stain-Test-Response Characteristics: Where 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 Project.
- D. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range.

#### 2.2 MANUFACTURERS

- A. Manufacturers: Provide products by the Pecora Corporation or equal products by the following manufacturers:
  - 1. Dow Corning Corporation.
  - 2. GE Advanced Materials – Silicones.
  - 3. Sika Corporation, Construction Products Division.
  - 4. Tremco Incorporated.

#### 2.3 SILICONE JOINT SEALANTS

- A. Single-Component, Nonsag, Neutral-Curing Silicone Joint Sealant: ASTM C 920, Type S, Grade NS, Class 100/50, for Use NT.
  - 1. Products: Pecora Corporation; 301 NS, 311 NS, 890 NST.
- B. Single-Component, Nonsag, Neutral-Curing Silicone Joint Sealant: ASTM C 920, Type S, Grade NS, Class 50, for Use NT.
  - 1. Product: Pecora Corporation; 898.

#### 2.4 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.
  - 3. 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.
  - 4. 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.
- B. 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 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.
- D. 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.

**3.4 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.

**3.6 JOINT-SEALANT SCHEDULE**

- A. Joint-Sealant Application: Exterior joints in vertical surfaces and horizontal nontraffic surfaces.
  - 1. Silicone Joint Sealant: Single component, nonsag, neutral curing, Class 100/50.

**END OF SECTION 07 9200**

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## SECTION 09 9113 - PAINTING

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section includes surface preparation and the application of paint systems on the following substrates:
  - 1. Painting at areas repaired due to selective demolition and at exposed new woodwork.

#### 1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.

#### 1.3 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.
  - 1. Maintain containers in clean condition, free of foreign materials and residue.
  - 2. Remove rags and waste from storage areas daily.

#### 1.4 FIELD CONDITIONS

- A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F.
- B. Do not apply paints in snow, rain, fog, or mist; when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products in Part 3 by The Sherwin Williams Company or equal products by Porter Paint Company.

#### 2.2 PAINT, GENERAL

- A. Material Compatibility:
  - 1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
  - 2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
- B. Colors: Match Architect's samples.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- C. Proceed with coating application only after unsatisfactory conditions have been corrected.
  - 1. Application of coating indicates acceptance of surfaces and conditions.

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**3.2 PREPARATION**

- A. Comply with manufacturer's written instructions and recommendations in "MPI Manual" applicable to substrates and paint systems indicated.
- B. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
  - 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.

**3.3 APPLICATION**

- A. Apply paints according to manufacturer's written instructions.
  - 1. Use applicators and techniques suited for paint and substrate indicated.
  - 2. Paint surfaces behind movable items same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed items with prime coat only.
  - 3. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
- B. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- C. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

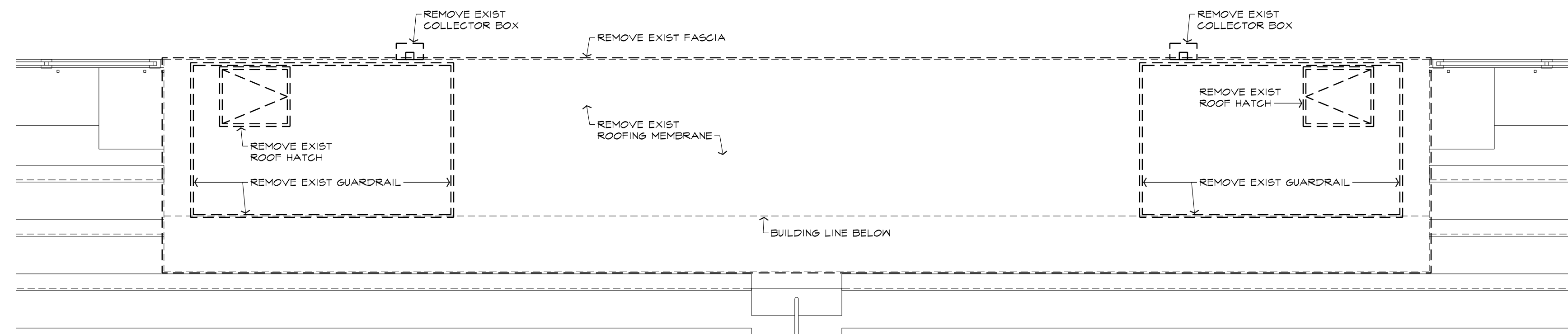
**3.4 CLEANING AND PROTECTION**

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

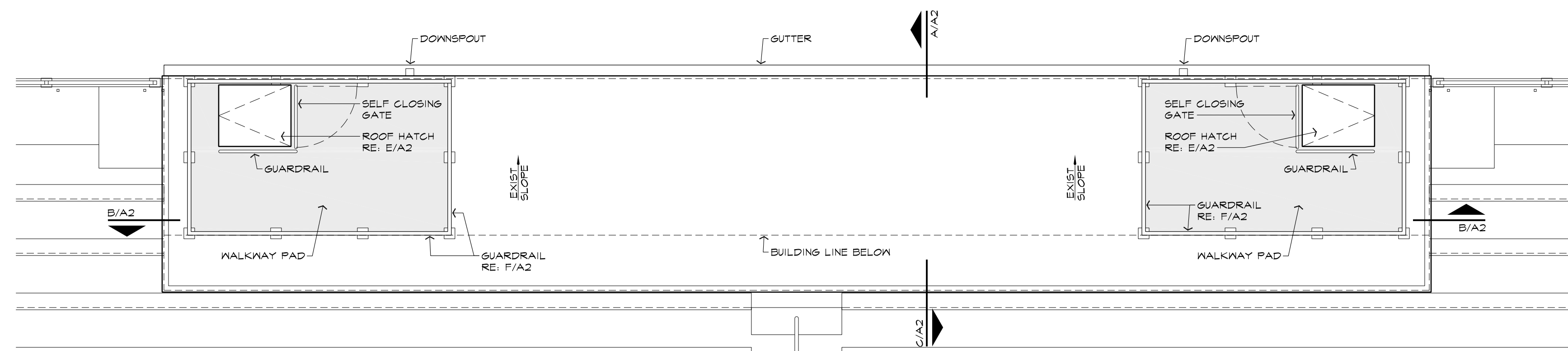
**3.5 PAINTING SCHEDULE**

- A. Wood Substrates:
  - 1. Primer: 1 coat ProGreen 200 Primer.
  - 2. Topcoats: 2 coats ProMar 200 Acrylic Alkyd Semi-Gloss.

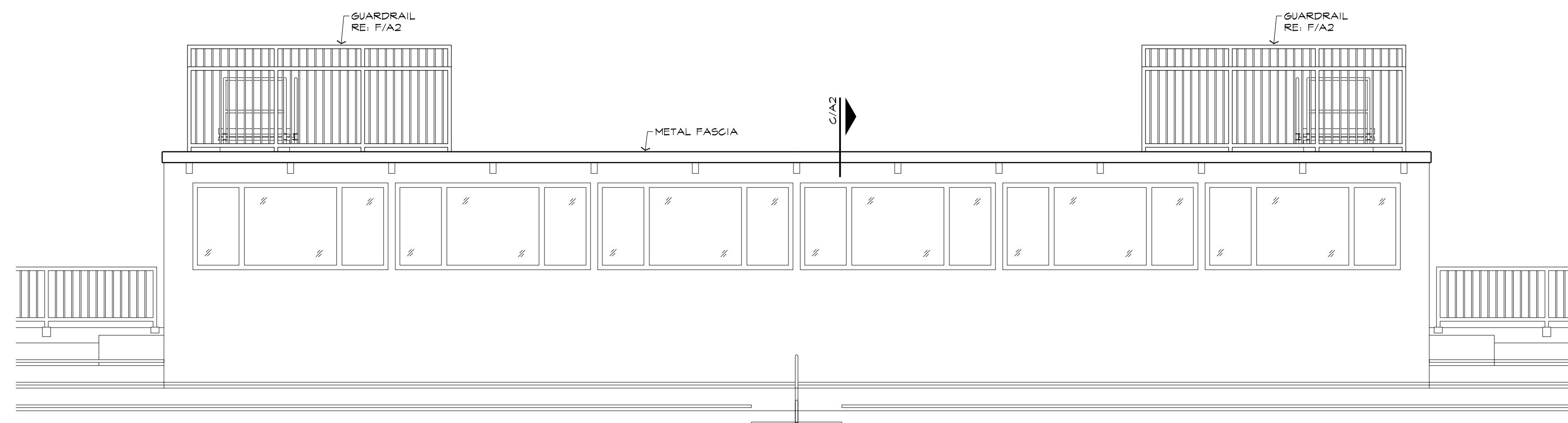
**END OF SECTION 09 9113**



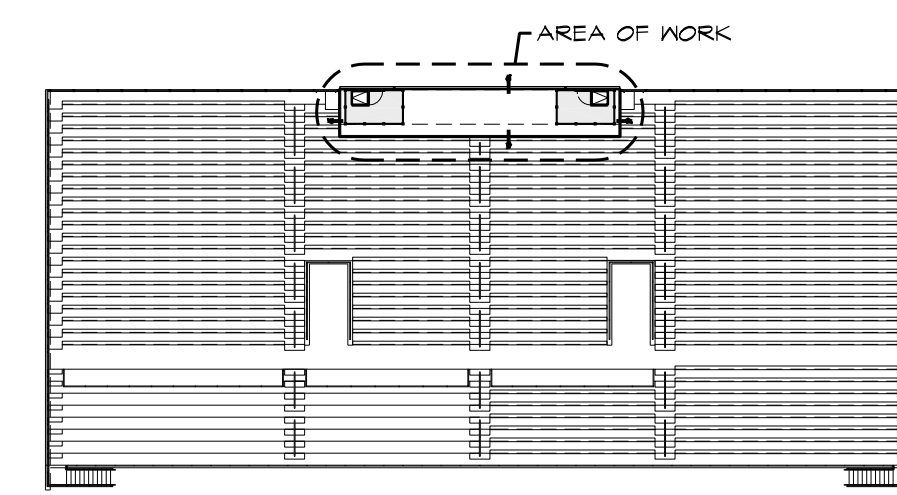
**A** ROOF PLAN - DEMOLITION  
1/4" = 1'-0"



**B** ROOF PLAN - IMPROVEMENT  
1/4" = 1'-0"



**C** EAST ELEVATION  
1/4" = 1'-0"



KEY PLAN  
N.T.S.



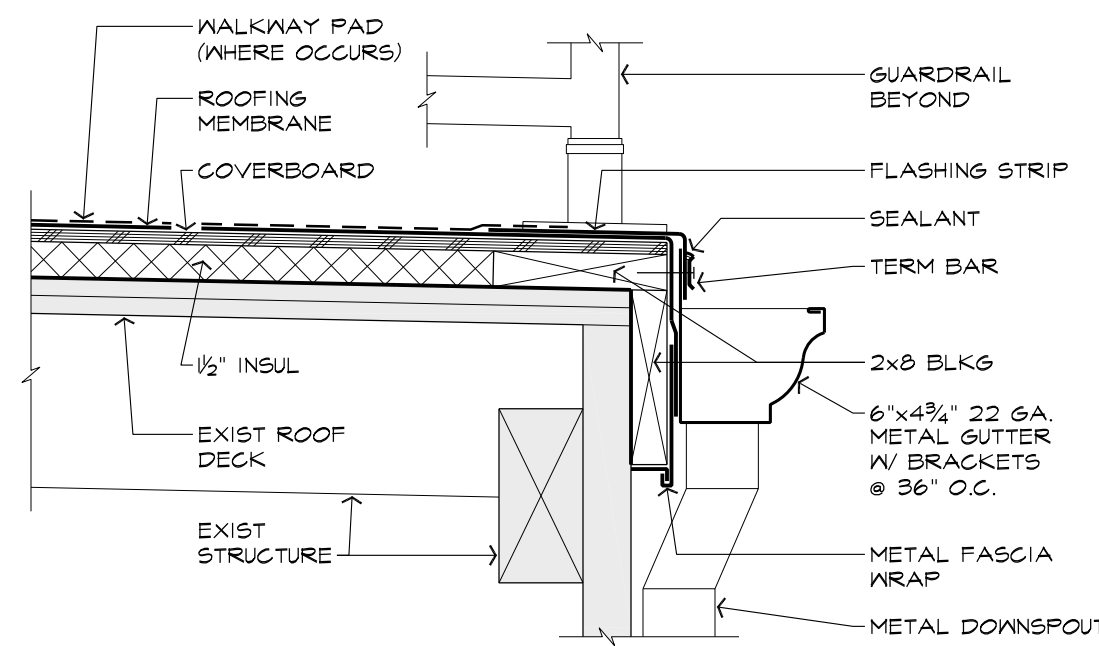
ORIGINAL CONTRACT DOCUMENTS

PROJECT P1905.01  
DATE October 2019  
REVISION

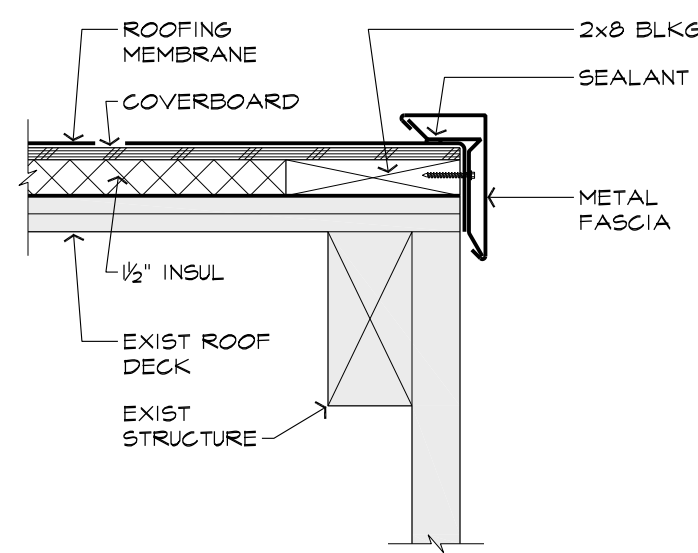
SHEET

**A1**

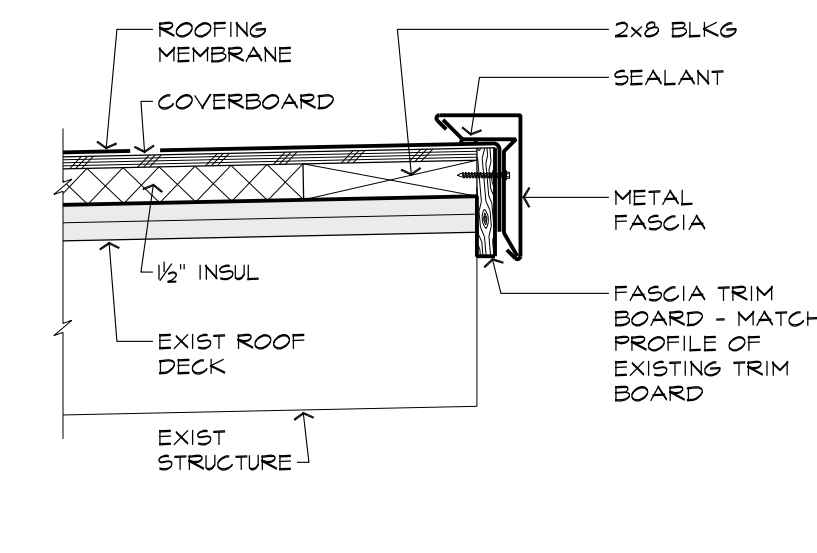
DEMOLITION PLAN  
ROOF PLAN, ELEVATION



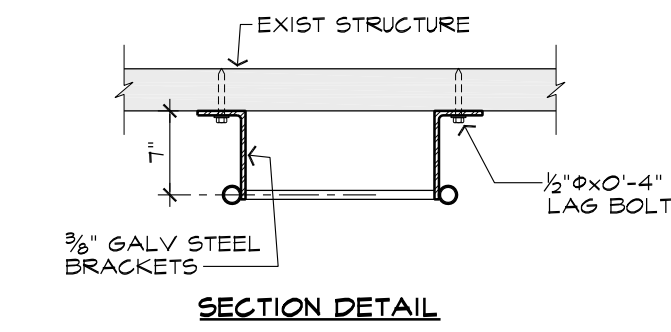
**A ROOF EDGE DETAIL**  
1-1/2" = 1'-0"



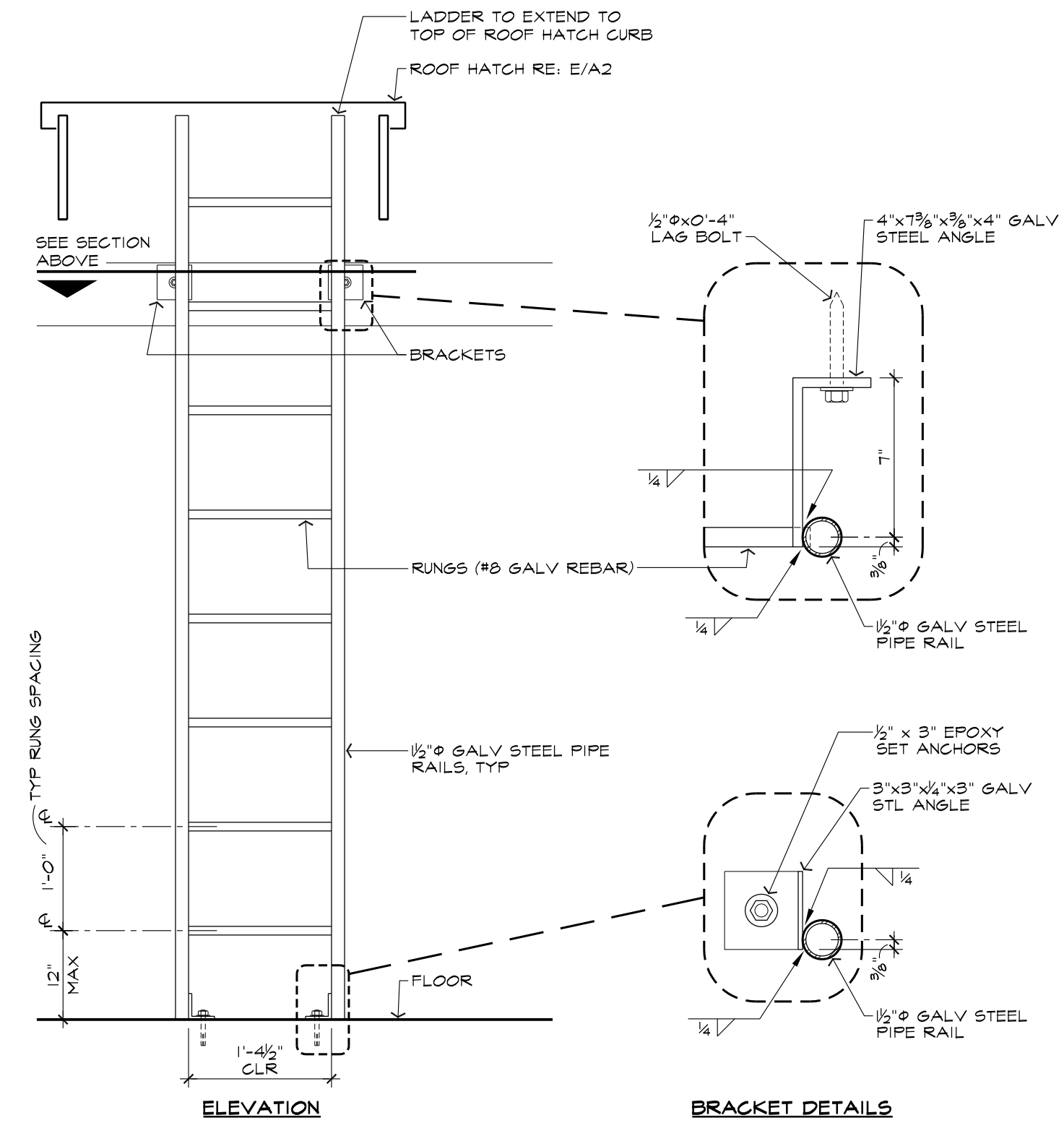
**B ROOF EDGE DETAIL**  
1-1/2" = 1'-0"



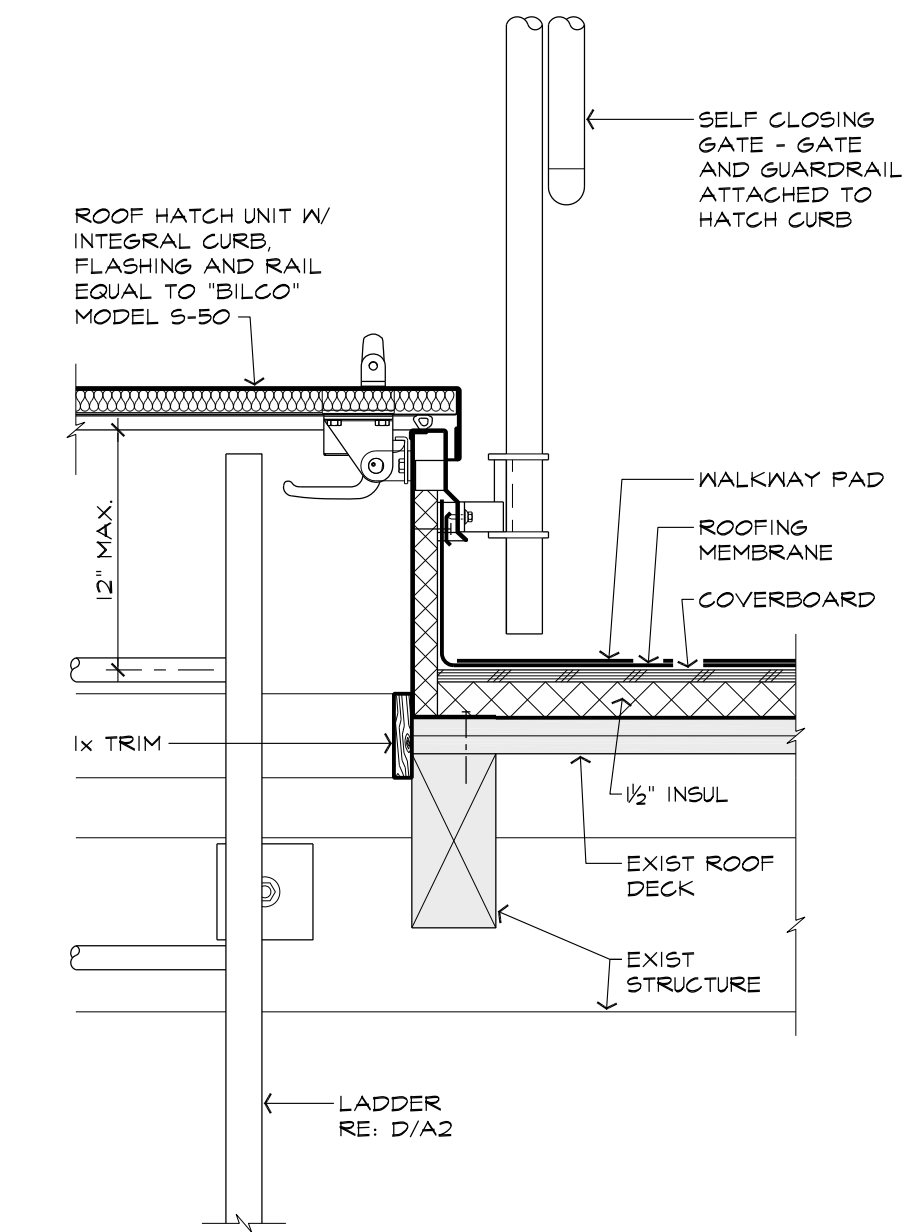
**C ROOF EDGE DETAIL**  
1-1/2" = 1'-0"



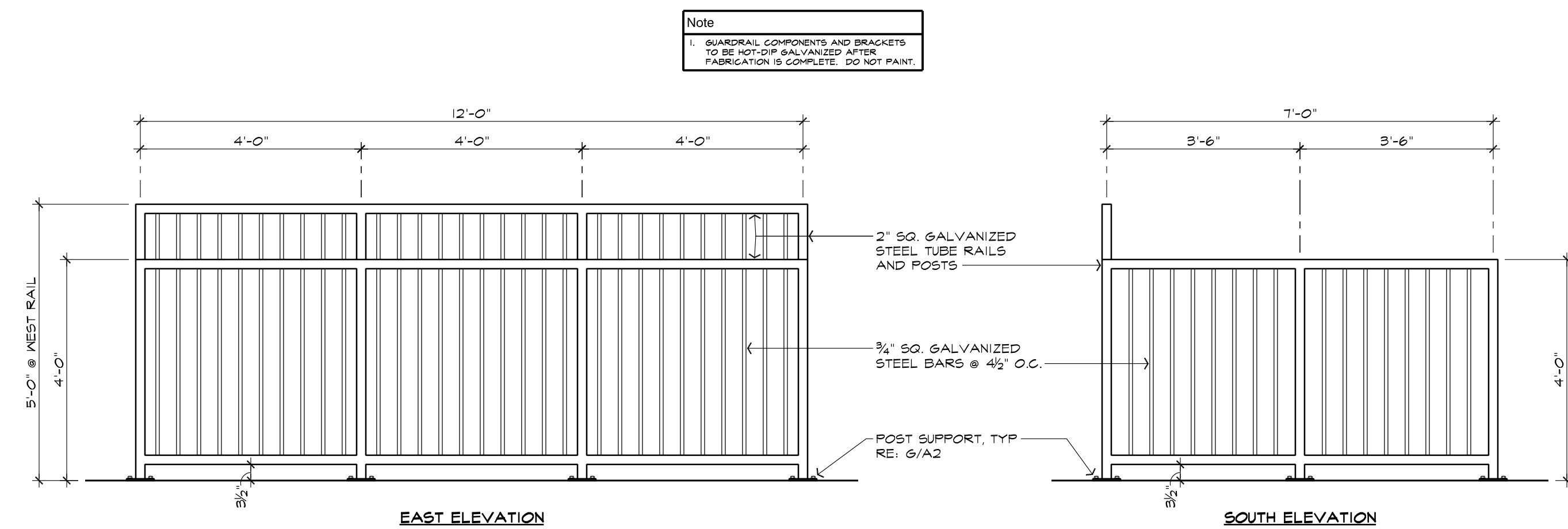
**Note**  
1. LADDER COMPONENTS AND BRACKETS TO BE HOT-DIP GALVANIZED AFTER FABRICATION IS COMPLETE. DO NOT PAINT.



**D INTERIOR WALL LADDER DETAIL**  
3/4" = 1'-0"

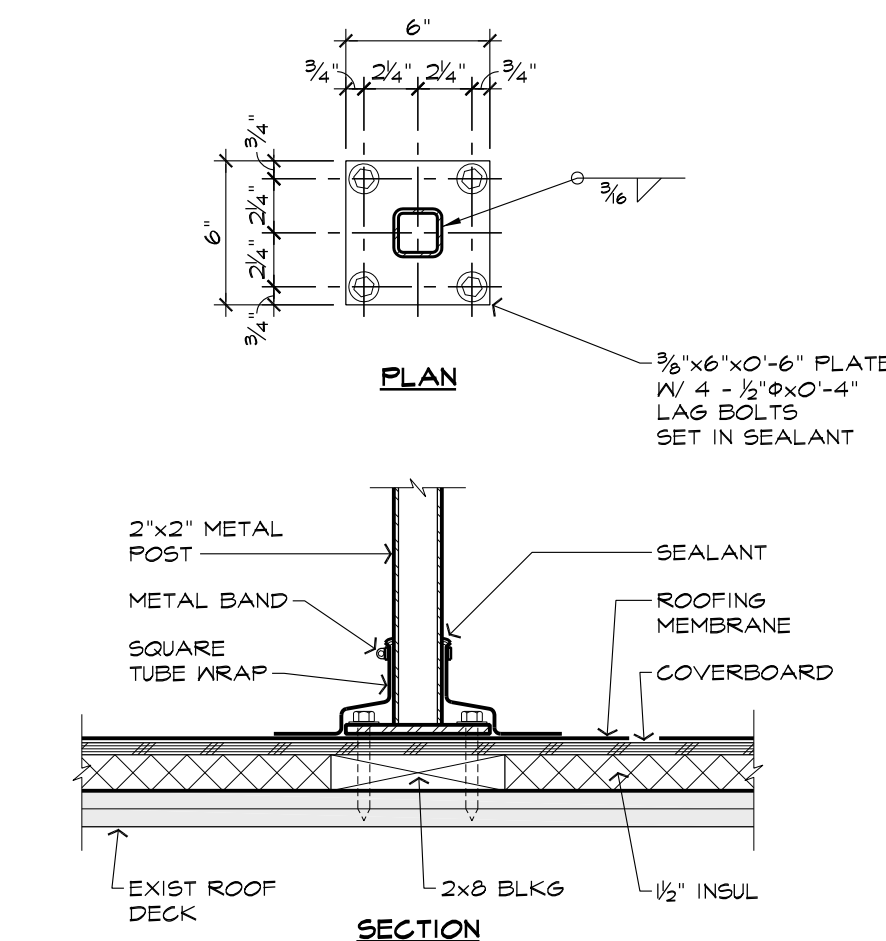


**E ROOF HATCH DETAIL**  
1-1/2" = 1'-0"



**Note**  
1. GUARDRAIL COMPONENTS AND BRACKETS TO BE HOT-DIP GALVANIZED AFTER FABRICATION IS COMPLETE. DO NOT PAINT.

**F GUARDRAIL ELEVATIONS**  
1/2" = 1'-0"



**G POST SUPPORT DETAIL**  
1-1/2" = 1'-0"