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SPECIFICATIONS FOR LABOR AND MATERIALS

FOR

Prairie Central High School 2020 Partial Reroof (A/E 2498 0319)
411 N. 7th Street
Fairbury, IL 61739

&

Prairie Central Primary West 2020 Partial Reroof (A/E 2499 0319)
700 S. Division St.
Chenoa, IL 61726



FOR

Prairie Central CUSD NO. 8
605 N. 7th
Fairbury, IL 61739

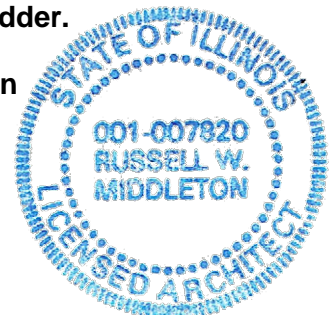
A/E PROJECT NUMBER: 2498 0319 and 2499 0319

ISSUE DATE: March 24, 2020

PRE-BID: No pre-bid scheduled, site visits responsibility of the bidder.

SITE VISITS: Normal business hours, check in at School office if open

BID TIME AND DATE: April 6, 2020 – 2:00 p.m.
Prairie Central CUSD No. 8 District Office
605 N 7th Street
Fairbury, IL 61739



DIVISION 00 – BIDDING & CONTRACT REQUIREMENTS
Section 00 0110 – Table of Contents

PROJECT: Prairie Central High School 2020 Partial Reroof
411 N. 7th Street
Fairbury, IL 61739

and

Prairie Central Primary West 2020 Partial Reroof
700 S. Division St.
Chenoa, IL 61726

FOR: Prairie Central CUSD No. 8
605 N. 7th Street
Fairbury, IL 61739

SUPERINTENDENT OF SCHOOLS: PAULA CRANE

ARCHITECT: Middleton Associates Incorporated
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Normal, IL 61761-3028
309/452-1271 FAX 309/454-8049
e-mail: russ@middletonassociates.net
website: www.middletonassociates.net

A/E PROJECT NO: 2498 0319 & 2499 0319

ISSUE DATE: March 24, 2020

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DOCUMENT LIABILITY

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person violating this copyright shall bear all liability that may occur from use or misuse of such information. Permission is granted to copy and distribute these documents only for preparation of proposals and/or execution of a contract for this Project No. 2498 0319 & 2499 0319.

END 00 0110

DIVISION 00 – PROCUREMENT REQUIREMENTS
Section 00 1116 – Invitation for Bids

Prairie Central CUSD #8 is receiving bids for the Prairie Central High School 2020 Partial Reroof, the Prairie Central Primary West 2020 Partial Reroof project and the Prairie Central District Office Foam Roof. Bids are being taken separately and in combination for these projects and may be awarded in combination or separately.

Pre-Bid Meeting: given to Covid-19 concerns there will not be a prebid meeting, you may visit the sites during normal business hours to inspect and email questions to the Architect at russ@middletonassociates.net.

Proposals must be delivered to the reception desk, Prairie Central CUSD #8 District office at 605 N. 7th Street, Fairbury, IL prior to 2:00 PM CDT, Monday, April 6, 2020. Timely delivery to the District office is the responsibility of the vendor, late or misdirected delivery of bids cannot be considered. No electronically delivered proposals or modifications can be considered.

Proposals will be opened and publicly read following the due time listed.

Terms of the proposal include Bid Security, Owner protective bonds, Prevailing Wage, Certified payroll reporting, Revised ILCS Statutes and the Illinois School Code.

The Board of Education has the right to reject or accept any or all parts of all bids submitted and to waive any or all irregularities in the bidding and to accept the lowest responsible bid.

For full requirements of the proposal, contact the Architect: Middleton Associates Incorporated, 1702 W. College Avenue, Suite E, Normal, Illinois 61761-2793, Phone 309/452-1271, FAX 309/454-8049.

Plans and specifications may be reviewed without deposit on line at www.middletonassociates.net. Interested bidders should be registered with the Architect in order to receive addendums, notifications or clarifications regarding the bid. Bid document copies including the bid form may be printed directly from the web site.

END 00 1116

DIVISION 00 – PROCUREMENT REQUIREMENTS

Section 00 2113 – Instructions to Bidders

1. GENERAL

1.1. QUALIFICATION

- A. Competency and responsibility of the Bidder, and of their proposed subcontractors, may be considered in making awards. Determination of responsibility prior to award may include:
1. A detailed statement regarding the business, technical organization, crew availability and evidence of capability for the work that is contemplated.
 2. Evidence of successful experience of personnel and previously completed construction projects
 - a. Contractor and personnel, five years or more commercial construction experience, including recent projects of similar or greater value, similarity of types of work, technical content, and complexity
 - b. Evidence that recent projects as described above have been scheduled and delivered on time, aggressively pursued to conclusion without delay.
 - c. Experience does not include frivolous claims for additional costs, or work requiring abnormal or extensive corrections.
 - d. Evidence that equipment was properly installed and started and functioned without abnormal warranty calls for installation related problems.
 - e. Evidence that the contractor coordinated with the Owner, scheduled work in a progressive manner to allow Owner reasonable access to get facilities ready for occupancy in a timely manner.
 - f. Evidence that phased projects have been completed without loss of services between phases.
 3. Information pertaining to the financial resources of the contractor to pursue the work may be considered prior to making the award:
 - a. Evidence of financial resources to cover retainage, meet payrolls, contract for and acquire or pre-pay materials. Resources and Contractor net worth available to this project less than 35% of the contract award may be grounds to disqualify the bid.
 - b. Evidence of unpaid bills, unresolved liens, outstanding claims by the Department of labor for wage, benefits or workman compensation violations or failure to provide accurate payroll information.

2. EXAMINATION OF DOCUMENTS, SITE AND WORK INCLUDED

A. LOCATION OF THE PROJECTS:

1. Prairie Central High School, 411 N. 7th Street, Fairbury, IL 61739.
2. Prairie Central Primary West School, 700 S. Division St., Chenoa, IL 61726

B. PRE-BID MEETINGS

- a. **Due to issues with the Covid 19 a pre bid meeting is not scheduled.**
- b. You may visit the facility during business hours and inspect conditions. Then contact the Architect with questions and clarifications, these will be posted on line for everyone to see in lieu of pre bid minutes.
- c. Bring your own ladders.
- d. Check in at the office if open.
- e. If you wish to make test cuts, pull out tests, bring your own materials to infill and patch existing roofs.
 - 1) High school base bid is a white thermo plastic material, north roof is foam roof
 - 2) Primary West is EPDM roof both areas.

C. EXAMINATION OF SITE AND CONTRACT DOCUMENTS

1. Bidder shall carefully examine bidding documents and inspect the site to obtain first-hand knowledge of existing conditions.
2. Access may not be available on short notice.
3. Do not ask for directions or interpretations of the work during these visits unless in combination with a pre-bid meeting, you may discuss the work but if any clarifications or questions become evident these must be handled through the A/E and no change to the project requirements will result from verbal clarifications of the work during a visit.
 - a. Please ask questions requiring interpretation or bid term adjustments such as optional materials or contract terms that need adjusted at least 5 days prior to bidding if possible
 - b. Responses requiring an addendum must be made 72 hours before bidding.
4. Each Bidder, by submitting his bid, represents that he has examined the bidding documents, inspected the site and premises, compared task requirements and time constraints to installation conditions and that he understands the obligations of the bidding documents. By providing a proposal he is certifying that he has familiarized himself with the local conditions under which the work is to be performed. Bidders will not be given extra payment or contract time for conditions that could have been determined by on

site examination.

D. INTERPRETATION OF DOCUMENTS

1. Anyone having a doubt concerning the meaning of the Contract Documents, or any other questions, may submit a request for interpretation from the Architect/Engineer. All pre-bid interpretation shall be requested not later than FIVE (5) DAYS prior to the bid due date. Response, other than minor clarification, will be in the form of Addenda and will be mailed to each Bidder.
2. It shall be the Architect/Engineer's responsibility to clarify conflicts in requirements as may be reported to the Architect/Engineer. After bid due date, the Architect/Engineer shall determine the course to be followed for said clarification with no cost change to the Owner.

E. ADDENDA

1. Addenda may be issued before the bid opening date to clarify or modify the Contract Documents. Addenda are posted at www.middletonassociates.net
2. Addenda will be issued electronically. Email address is required to receive addenda.
3. If you have not registered your interest in the bid with the Architect, and do not receive or seek out the addendums then failure to recognize any Addendum may disqualify the bid.
4. Said addenda shall become a part of the Contract documents and supersede any conflicting specifications and/or clarify intent of same.

F. INTENT, ERRORS AND OMISSIONS

1. Any known conflict between requirements of various portions of the Contract Documents shall be reported to the Architect/Engineer prior bid due date and shall fall under the authority of Interpretation of Documents.
2. The Drawings are descriptive and directive in concept and are not intended to exhaust all detail situations required to complete the work. The procedures detailed shall establish the general character of solutions needed for typical, non-typical, and peculiar situations at the job site.
3. It is the intent of the documents that specified work and equipment be installed in a proper and finished manner, fully operational, at a minimum of generally accepted standards for good quality commercial construction. All necessary materials, labor, controls, accessories, brackets, fasteners, sealants, etc., to properly install and complete the work shall be provided unless specifically noted otherwise.
4. Each Contractor and Subcontractor shall coordinate and cooperate with the other Contractors to provide proper installation. Verify dimensions, services, installation conditions, obstacles to the work

and modifications necessary to complete the work and coordinate the fit, finish and scheduling of the work.

G. DOCUMENT INTENT, PROJECT COMPLETION, FITTING AND FINISHING FULLY FUNCTIONAL, USER READY

1. It is the intent that all items of work included in the project are to be completely finished and all necessary associated components and accessories for proper completion are to be included in the work.
2. Drawings are schematic in nature; every single element needed is not necessarily labeled, dimensioned or positioned. Unless specifically exempted, the Contractor shall provide as follows:
3. Good quality fit, finish and workmanship at a level of competency and quality equal to or exceeding commercial construction in the area.
 - a. Sealants, caulks, flashings, transitions, closures and components to assure infiltration and weather tight result and finished appearance inside and out.
 - b. Sealants, flashings, closures at building connections.
 - c. Upper and lower flashings, in new construction and whenever possible, to shed water outward.
4. All components and assemblies to assure proper installation and performance of manufactured equipment, per manufacturer's or industry association standards as a minimum.
 - a. Mechanical equipment, plumbing, piping, ventilation, valves back checks, connections etc.
 - b. Mechanical and electrical coordination, coordination of installation locations, hidden where possible, routed through the construction in the most expedient but concealed manner,
 - 1) Minor relocation of piping, equipment, installations shall be provided without cost change within 10' either way or reasonable pathways of similar distance.
 - c. All other equipment, kitchen, doors, hardware, windows and any other operable equipment
 - d. Service access, filters, repairs always allow for reasonable repair and maintenance access.
5. Proper protection of dissimilar materials or components for bond problems, galvanic action, movement, moisture, and/or chemical reaction.
6. New finished appearance for all new work and work abutting existing where applicable.
7. Code compliance:

- a. All equipment and installations.
 - b. Electrical NEC, circuit protection, grounding, disconnecting means, GFI, and installation practices
 - c. Water, back checks, vacuum breakers, back flow preventers, service valves, hammer arrestors, expansion tanks.
8. Construction assembly details, setting forth special requirements, keyed to a specific section, detail or I.D. number, shall be considered applicable to similar assemblies throughout the contracted work unless specifically designated otherwise.

2.2. DRAWINGS & SPECIFICATIONS

A. OBTAINING INFORMATION

1. Drawings and Specifications may be obtained from the Architect, Middleton Associates Incorporated, 1702 W. College Ave., Suite E, Normal, IL 61761-2793, Telephone 309/452-1271, Fax 309/454-8049.
2. No deposit required for one set. Contractor may purchase additional documents directly from The Copy Shop in Bloomington.
3. To obtain documents provide the A/E all contact information as well as an email address for delivery of addendums and bidding information during the bid period.
4. Method of document distribution is at the option of the Owner and the Architect whether it is paper, or digital.
5. If paper copy is provided, return or replacement value \$60.00 for paper.

B. RETURNING DOCUMENTS

1. All documents remain the property of the Architect and shall be promptly returned after the bidding. The low bidder may keep documents and sub bidders may retain same until awards have been made.
2. Failure to return documents within 20 days after bidding will result in charge for the replacement cost in the event there was not a plan deposit.

2.3. ALTERNATES

- A. The Bidder shall submit a proposal for every alternate listed in the Contract Documents. Failure to provide alternate prices may disqualify the bid.
- B. See Section 00 2413, Scope of Bids, for a description of Alternates.

2.4. BID SECURITY

- A. The Bidder shall furnish bid security, along with his proposal:

1. Form of security to be bid bond or certified check payable to the Owner.
 2. Amount 5% of the base bid proposal
 3. Said security shall serve as a guarantee that the Contractor will enter into the Contract with the Owner as per his bid and the contract terms should the job be awarded to him.
- B. Should said Contractor refuse or fail to enter into a Contract with Owner per his bid for the work included in these Contract Documents within fifteen days following notification of award and/or receipt of a contract for signature, said bid security shall become collectible, in full, by the Owner in payment for damages.
1. Failure to enter into an agreement shall mean failure to return or submit:
 - a. A signed agreement.
 - b. Owner's protective bond(s) for Labor, materials and performance.
 - c. Approved subcontractor/supplier lists.
 - d. Certificates of insurance within stated time period.
 - e. Evidence that this contractor intends to pursue this contract in a timely and deliberate manner, including ordering of materials and committing or arranging for necessary manpower to accomplish the work.

2.5. WITHDRAWAL OF BIDS

- A. Bids may be withdrawn by an authorized person prior to the bid due date and time, after which time no bids may be withdrawn for a period of forty-five (45) days unless a Bidder has been released by the Owner's action.
- B. Authorized person shall mean an Owner or Officer of the Contractor offering the proposal or other evidence of authority.

2.6. PROPOSAL (BID) FORMS

- A. Each bidder shall submit his proposal, on proposal form provided.
 1. Submitted bid forms may be copied
 2. All applicable blank spaces on forms shall be filled out fully.
 3. Numbers shall be stated in writing where noted and in figures.
 4. Signatures shall be live in longhand by person authorized to sign bids as Owner or corporate officer or shall include Power of Attorney to sign the bid.
 5. No facsimile proposals or modifications can be considered per Illinois School Code on public school projects.
- B. Completed forms shall be without delineation, clarification, alteration or

modification.

1. Correction of contractor inserted is acceptable if clearly identified and initialed by the signatory to the bid. Irregularities of such corrections may be grounds to disqualify the bid.
 2. Offers to clarify or modify may be made on voluntary alternates and substitution forms if provided in the bid package, but in no case should the base bid or requested alternate bids offered be based on anything but the document requirements.
- C. Voluntary alternates or offers for substitutions may be attached on forms provided or on the bidder's letterhead. These will be considered at the Owners option. Additional information may be requested prior to consideration.

2.7. AWARD OF REJECTION OF BIDS

- A. Although it is the intention of the Owner to accept the lowest qualified bid the Owner specifically reserves the right to waive all formalities and/or informalities, to reject any and all bids and/or accept the bid that, in the Owner's judgment is the lowest responsible bid.
- B. Contractor will note all alternates that are applicable, or as may become applicable by addendum, should be bid. Failure to bid an alternate may be grounds to disqualify the proposal, at the Owners discretion.
- C. Should the time for award exceed the time stated for the proposal's expiration period, the Owner reserves the right to continue to negotiate with bidders in the line of award succession as a prior option rather than re-bid.

2.8. RETURN OF BID SECURITY

- A. After bids have been read along with alternates as applicable and a successful Bidder has been approved by Owner, a Letter of Intent will be sent to the successful bidder and bid security may be returned to the unsuccessful bidders except the deposits of the two (2) most advantageous bidders will be retained until Owner/Contractor agreements have been consummated.
- B. Following the signing of the Contracts and receipt of bonds, remaining bid security will be returned. If the successful Bidder fails to accept the Contract and submit acceptable bonds, same will be grounds for forfeiture of his bid security.

2.9. OWNER'S PROTECTIVE BONDS: A 100% of value Labor and Material Payment Bond and Performance Bond including all alternates accepted is required in the Contract and shall be included in the Contractor's Proposal

- A. Periodic Change Orders that may occur to the Contract shall be included in each respective bond.
- B. Bonds shall cover the entire Contract without regard to the Contractor's

assignment of work of Subcontractors or Suppliers.

1. Inclusive of all awarded Alternates.

2.10. AWARD AND LETTER OF INTENT

- A. The Owner will make an award based on the selection of the lowest cost responsible bidder. After the award, and the issuance of a Letter of Intent, the contract timeline is as follows:
 1. Return signed agreement (10) days
 2. Sub Contractor, Supplier list, including any entity to be assigned a significant or skilled trade part of the work, provide list, addresses and contact information, (7) days. Provide references upon request.
 3. Labor and Materials Payment, and Performance bond(s), ten (10) days
 4. Insurance, ten (10) days
 5. Master Cost Breakdown (CSV), ten (10) days
 6. Proposed Schedule and time line, Pre Construction meeting
- B. Failure or refusal to provide the preceding Contract information in a timely manner may be cause for cancellation of the award or termination of the agreement if signed and the Owner will be entitled to compensation under the terms of the bid security for failure to execute contract terms in good faith.

2.11. LIST OF SUBCONTRACTORS AND SUPPLIERS

- A. Within seven (7) business days after notification of intent to award, and prior to the Contract being signed, the Contractor shall submit to the Architect/Engineer, a list of proposed subcontractors and major equipment suppliers and other persons or organizations to be assigned part(s) of the contract.
- B. This list is subject to the review and approval of the Owner. Basis for this review may include supporting evidence the proposed Subcontractor or Supplier has experience and adequate resources to accomplish the assigned responsibilities on time and in compliance with the requirements.
 1. The Owner reserves the right to request justifiable changes in the list.
 2. The changes requested are intended to be made at no additional cost to the Owner.
 3. If it is not possible to make requested changes at no additional cost, the Owner reserves the right to terminate the award and negotiate with the next successive bidder based on his original proposal.

2.12. MATERIALS SPECIFIED AND QUALITY OF WORK

- A. Materials shall be as specified or approved equal.

1. Approved equal" and "or equal" shall mean that the Contractor shall be required to receive the approval (via the Architect) on any substitute materials.
2. Requests for substitution approval shall be submitted to the Architect/Engineer, seven (7) days prior to the bid due date.
3. Prior to considering substitutions, the Owner and/or the Architect/Engineer may require submission of samples, descriptive, technical and catalog data and lab reports of tests for verification of equivalency.
4. If approved and selected, all adaptations to fit and accommodate the substitute or equal equipment including coordinating other trades is the responsibility of the Contractor requesting the change.

2.13. PROGRESS PAYMENTS

- A. Will be made not more frequently than monthly, per the Owners payment schedule.

2.14. PROJECT ACCESS: The Contractor shall be aware that the Town/City, Township, County or State has authority over various approach roads for site access and the Contractor is responsible to:

- A. Observe load limits and arrange for any exceptions to load restrictions that may be required for this project.
- B. Make arrangements for road cleanup, barricades and surface patches and repairs shall comply with applicable regulations and be subject to the governing authority approval.

2.15. EQUAL OPPORTUNITY EMPLOYMENT: The following clause is applicable unless this Contract is exempt under the rules and regulations of the Secretary of Labor of the State of Illinois.

- A. During the Performance of this Contract, the Contractor agrees as follows:
 1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, age or national origin. The Contractor will take affirmative action to ensure that all applicants are considered and that employees are treated, during employment, without regard to their race, color, religion, sex, age or national origin."

2.16. ILLINOIS STEEL PROCUREMENT ACT

- A. During the performance of this contract, the contractor agrees to:
 1. Comply with the 30 ILCS 565
 2. Steel products used or supplied in the performance of that contract or any subcontract thereto shall be manufactured or produced in the United States.

3. All requirements of and/or exemptions allowed in this regulation apply without exception.
4. The Owner and A/E cannot interpret the legal requirements as applicable to this contract.
5. Any additional cost incurred by the Owner for a violation of this provision shall be reimbursed by the Contractor.
6. If the regulation cannot be complied with due to product or inadvertent specification requirement, notify the A/E promptly for direction.

2.17. ILLINOIS DEPARTMENT OF LABOR AND LABOR RELATED REQUIREMENTS

- A. IDLR regulations apply to all work on site without exception.
- B. Publicly funded projects or projects managed by Public Bodies require the following:
 1. PREVAILING WAGE 820 ILCS 130/4: The Contractor shall pay and shall require his subcontractors to pay the prevailing hourly wages as is determined by the Illinois Department of Labor pursuant to the Illinois Prevailing Wage (820 ILCS 130/1 et. seq.) included at the end of this section.
 2. CERTIFIED PAYROLL REPORTS: Will be required with each successive pay application for payroll periods preceding the application date.
 3. SUBSTANCE ABUSE PREVENTION ON PUBLIC WORKS 820 ILCS 265: All Contractors must be prepared to certify upon request that they have complied with the Illinois Substance Abuse Act, including a written program that meets or exceeds the requirements of this act for the prevention of substance abuse among its employees.

2.18. SALES TAX

- A. Materials supplied to a public school district are exempt from state sales taxes. The Contractor shall determine the extent of exemption and shall comply with the regulations established by the Illinois Department of Revenue.
 1. Prairie Central CUSD #8 Sales Tax Exemption #E9995-2726.

2.19. TOBACCO AND ALCOHOL FOR CONSUMPTION PRODUCTS

- A. Smoking, chewing, tobacco use; shall not be permitted anywhere on public school property by State Statute.
- B. Alcoholic beverages, controlled substances, unauthorized prescription medication are not allowed on school property.
 1. Working under the influence of any of the above and/or a legal prescription that causes impairment is not allowed.

- C. Violators may be removed from the job sites subject to conditional return privileges in the future.

2.20. SEXUAL HARASSMENT POLICY

- A. The Owner will not tolerate sexual harassment in any form. Sexual harassment is defined, for the purpose of this policy, as "unsolicited, deliberate or repeated sexually derogatory statements, gestures or physical or implied physical contact that causes discomfort or humiliation. Sexual harassment may involve pressure from a person of either sex against a person of the opposite sex or same sex . . ."
 - 1. Should evidence that a Contractor, or a Contractor's employee, has harassed staff, student or other individuals, that employee shall be removed from the job site permanently or until such time that the circumstances have been determined to have been resolved satisfactorily.

2.21. BACKGROUND INVESTIGATION AND SEX OFFENDERS ON SCHOOL GROUNDS

- A. Illinois Criminal Background checks may be applicable to this Contract. per 105 ILCS 5/10-21.9 and 105 ILCS 5/14-7.02.
 - 1. According to current interpretation a background check is required of persons working in direct contact with students.
 - 2. This standard in no way reduces or eliminates restriction in the law for certain convictions and proximity to school grounds.
- B. The Contractor shall:
 - 1. Maintain a list available to the Owner of all the employees who will be or are anticipated will be employed on site. This list shall be updated when new persons not originally listed will be working on site. This list shall also include names of personnel employed by subcontractors.
 - 2. Persons temporarily on site such as truck drivers or employees making deliveries do not need to be listed, but the Owner reserves the right to request a background check if deemed in their interest.
 - 3. Copies of employee lists shall be promptly provided to the Owner upon request and employees on site shall agree to submit to a background check if requested.
 - 4. Persons failing such check or refusing shall be removed from working on this site.
- C. The Contractor shall not knowingly employ on school grounds any person who has not signed or will not sign an authorization for a criminal background check.

- D. The Owner reserves the right to run fingerprint background checks on any or all employees on site, randomly or specifically, and the cost of this check will be borne by the Owner. Upon request, provide information, which will not be shared, as needed to complete checks. This may include SSN, home addresses, fingerprint, address, etc. and any alias or former names used.
- E. The Contractor shall assume the responsibility to notify all on site employees or potential employees of this provision, and of the consequences of this provision.

2.22. BUILDING PERMITS

- A. This project is exempt from local permit fees associated with the construction. Any such fees assessed are reimbursable.
 - 1. This Contractor shall fully cooperate with the local authorities and shall apply for and obtain all required permits and comply with local regulations and requirements. Only the fee is exempt.
 - 2. Provide necessary permit related information to local city authorities.

2.23. CONTRACT DOCUMENTS CHECK LIST

- A. Proposal
 - 1. Proposal Form properly filled out and signed, (live signatures)
 - 2. Bid Bond/Bid Security for 5% of base bid amount (live signatures)
 - 3. Low bidders exempt, return of documents within fifteen (15) working days after bid due date
- B. Letter of Intent
 - 1. Supplier - Subcontractors List, (10 days after Award)
 - 2. Employee list and criminal background affidavit, (prior to start on site.)
 - 3. Proposal & Contract Form prepared by the Architect, (signed and returned 10 days after receipt).
 - 4. Labor and Material Payment Bond, two copies (10 days after award)
 - 5. Performance Bond, two copies (10 days after Award)
 - 6. Insurance Certificates, liability and hold harmless, three copies (10 days after award) *
 - 7. CSV - Master Cost Breakdown (Preconstruction meeting)
 - 8. Bar Graph/Progress Schedule, copies as required (Preconstruction meeting)
- C. Periodically as needed
 - 1. Update employee list and criminal background affidavit as needed.

D. Periodic Application for Payment

1. Submit per the monthly scheduling, to be determined
2. Application and Certificate for Payment, 3 copies (AIA G702A)
3. Contractor's Affidavit, 2 copies (AIA G706)
4. Breakdown Estimate, 3 copies
5. Partial Waivers of Lien, 2 copies
 - a. Partial Waiver of Lien from Subcontractors/Suppliers for previous payment, 2 copies.
 - b. Updated Progress Schedule, submit with each pay request
6. Certified Payroll for all trades employed on site.

E. Substantial Completion

1. Notification work is ready for inspection.
2. List of deficiencies or incomplete work.

F. Final Application for Payment:

1. Letter to Architect that deficiency work is complete
2. Final Lien Waiver from the Contractor, 2 copies
3. Final Lien Waivers from Subcontractors/Suppliers, 2 copies
4. Final Affidavit showing \$0.00 due to Subcontractors and \$0.00 due to Suppliers, 2 copies
5. Final Payment Approval Letter from Bonding Co., 2 copies
6. Certification of all guarantees, warranties and service contracts, O & M Manual
7. Final Application & Certificate for Payment, 3 copies (AIA G702A)
8. Additional certifications as may be requested, 2 copies
9. Operating manuals & instructions, 3 copies-indexed and bound
10. Figure Bonus / Penalty and Liquidated Damages if applicable.

G. IDOL Prevailing wages see IDOL website.

1. <http://www.illinois.gov/idol/Laws-Rules/CONMED/Pages/prevailing-wage-rates.aspx>

END 00 2113

DIVISION 00 – PROCUREMENT REQUIREMENTS
Section 00 2213 – Supplementary Instructions

1. GENERAL

1.1. DESCRIPTION OF DRAWINGS AND LAYOUT

- A. Drawing data is intended to be reasonably accurate, however, strict accuracy in detail is not guaranteed.
1. Drawings, particularly Mechanical and Electrical drawings are schematic in nature.
 2. The Contractor must verify all of the actual conditions, measurements, dimensions, rough-in requirements; fitting of piping, conduit, wiring, and duct work and coordination necessary for each item, system or piece of equipment in the Contract Documents.
 3. Verification is the Contractor's responsibility and shall be completed prior to the fabrication or installation processes.
 4. Coordination of all elements of the work must be allowed for with cooperation between the trades particularly for conflicts of limited flexibility of installation. The general priority unless fixed conditions conflict is as follows: structure, placement of equipment, service access, mechanical piping, plumbing piping, and electrical piping. Trade priority in the preceding list does not supersede field cooperation to collectively and most expediently install the work.
 5. All corrections necessary to provide properly installed, finished and operable system, in accordance with the intent of the Documents, shall be made at no additional cost.
- B. All measurements and conditions must be verified by actual observation at the site.
1. The Contractor shall be responsible for all of his work fitting into place in a satisfactory and workmanlike manner in every aspect and detail subject to the approval of the Architect. The Contractor shall provide layout work and verification measurement at his own cost.
 2. The Contractor shall perform all layout work pursuant to site, building, grades and levels, and furnish such engineering services as he may require executing the intent of the work included.
- C. Before starting his work, the Contractor shall examine all Contract Area Drawings and Specifications and if discrepancies or conflicts are apparent or occur during the progress of the work:
1. Work first with the conflicting trades or installations to fit and coordinate the work.
 2. If there appear to be no practical or agreeable way to coordinate the fitting of the work report same to the Architect as a Request for Instruction, RFI, and obtain direction or interpretation to proceed.
- D. The Drawings are instructive and diagrammatic and shall be followed as closely as actual construction will permit. All changes from Drawings

necessary to complete the work shall be done at no added cost charge to the Owner above the amount shown on the Owner/Contractor Agreement.

1.2. OVERLOADING OF BUILDING

- A. Care shall be taken that completed structures are not overloaded during Contractor operations. It shall not be the Owner's, or Architect/Engineer's responsibility to observe and check construction processes and temporary loading conditions that may temporarily occur in the pursuit of the completed installations.
 - 1. Structural design, unless noted otherwise, is designed to accommodate design loads, per code, after completion.
 - 2. Bracing and shoring for loading or stability prior to the installation of lateral support elements and diaphragm assemblies is the responsibility of the Contractor.
 - 3. All structural damage done by overloading the system shall be repaired by the Contractor or Subcontractor overloading the system.

1.3. MEANS AND METHODS

- A. The Architect/Engineer and Owner shall have no authority over the means, methods and procedures of the work and shall make no determination pursuant thereto nor render opinions concerning same.
 - 1. The Architect's Field Representative does not have authority to render opinions on structural questions.
 - 2. If questions arise submit a Request for Information, RFI, for direction.
- B. The Architect/Engineer and Owner and representatives of same shall have no authority over methods employed or safety conditions related to:
 - 1. Erection loads and as they relate to the Contractor's interest and shall provide no observation of same.
 - 2. Upon request the Architect can provide the design loads employed for the final installation.
 - 3. The contractor shall designate an employee of the contractor as the person in charge of and responsible for directing the work and safety procedures on site.

1.4. PROTECTION OF WORK AND BUILDING

- A. The Contractor shall protect all work and stored materials from injury or loss caused by or resulting from operations under this Contract, including but not limited to:
 - 1. Physical damage
 - a. Poor stacking practices

- b. Abuse damage due to adjacent operations or exposures
- c. Weather related damage

2. Failure to have reasonably secured stored and in progress work.

1.5. MOVING OF MATERIAL

- A. Contractor materials which are temporarily located or stored shall be relocated as needed to allow access by the Contractor, other Contractors and the Owner's personnel in and around the construction area.
 - 1. Prior to storing materials coordinate the operations to avoid conflicts.
 - 2. Such moving of any material shall be at no additional cost to the Owner.
- B. At no time shall tools, materials or workmen block an exit unless same has been coordinated with other trades on site and reasonable alternative options are maintained.

1.6. DELIVERY STORAGE AND HANDLING

- A. Contractor is responsible for all material handling to protect from damage during unloading, stacking and storing
 - 1. Protect from weather related or environment related damage
 - 2. Store in a manner that will not cause damage
 - a. Properly support to avoid warping in wood products
 - b. Under cover for all finished products and equipment
 - c. All items blocked off the ground and out of the mud
 - d. Protect from moisture attack from sub grade, blowing rain or snow and flowing surface water.
 - 3. Reasonably secure against theft and vandalism
 - 4. Store where materials and equipment will not be at risk of damage due to other operations or other trades or require unnecessary handling and relocation.

1.7. SHORING, BRACING, AND BARRICADES

- A. The Contractor shall provide, construct and finally remove all temporary shoring, bracing, underpinning, scaffolding, needling, barricades, etc. as required by local restrictions and as necessary for to protect persons and property from damage or injury.
 - 1. The Contractor shall determine the need for these items.
 - 2. The Contractor shall be responsible for the performance or failure of performance of same and shall repair damages caused by failure or absence of same.

- B. Specific temporary shoring supports, etc., may be noted in the Documents, such as for new openings or certain renovations in existing work.
 - 1. All such needed shoring is always not noted but the responsibility of the Contractor or Sub Contractor making the opening or installing the new work as needed
 - 2. Notation on the drawings is an observation that existing support conditions are being impacted by the work and shall be attended to by the Contractor as needed by conditions discovered.
 - 3. In all cases, observe actual conditions of the work, same may be different than the anticipated conditions and may require shoring bracing and barricades.

1.8. MATERIALS, WORKMANSHIP, AND LABOR

- A. All installed materials and equipment shall be new and shall be installed and completed in a first class, workmanlike manner.
- B. The Architect reserves the right to direct the removal and the replacement of any item which, in his opinion, does not present a proper, orderly or reasonably neat installation. Such removal and replacement shall be done promptly when directed by the Architect or the Owner. All installations will be subject to the Architect's and Owner's inspections, tests, and approval at all times from commencement of the work to Final Acceptance of the completed Contract.
- C. Work needing correction or replacement that is not corrected with reasonable promptness shall be subject to written notice thereof by the Architect. The Contractor by virtue of having tendered his bid for the work, agrees that progress payments by the Owner may be held (no payment made) until said faults have been corrected.

1.9. ALIGNMENT BALANCING

- A. The Contractor shall be responsible for supervision of the installation of equipment.
 - 1. Level, adjust, balance and align new equipment and reinstalled or relocated equipment.
 - 2. Provide all alignment per manufacturer set up recommendations, align and balance pumps, belts and pulleys and adjust equipment to work properly.

1.10. CLEANING

- A. Work areas shall be maintained reasonably clear of accumulated debris, cartons and unused equipment to allow orderly pursuit of the Work.
- B. All surfaces shall be cleaned of any paint, plaster, mortar, gook and other stains.

1. Care shall be taken that no surface is scratched, marred or damaged by the cleaning process.
2. Damaged, marred or scratched surfaces of any type shall be repaired to new or original condition or replaced if necessary to provide a final installation acceptable to the Architect.

C. Final Cleaning - All areas new and renovated areas:

1. Clean and dusted.
2. Floors cleaned ready for occupancy.
3. Marks and scuffs repaired.

1.11. OPENINGS IN CONSTRUCTION

A. Openings required for construction work shall be provided by the Contractor, complete with all necessary reinforcing, lintels, trim, finishing, etc. as shall be needed to complete the Work including openings required for electrical and mechanical work.

1. Openings to be provided for other trades must be laid out and noted by the trade needing same prior to construction of the surface through which the opening is needed.
2. Untimely note of required openings shall be the responsibility of the Contractor or Subcontractor not requesting same.
3. All sleeves, flanges and forms, etc., shall be furnished by the Contractor requiring the opening.

B. Concrete slabs, joists, concrete floors, finished floors, walls and structural elements, and other structural items shall not be cut or disturbed, except as approved by the Architect IN WRITING.

C. Pipes or elements passing through floors or partitions shall have sufficient clearance around pipes to prevent damage to the adjacent finish from expansion and contraction.

1.12. FIRE SEALS

A. All penetrations of fire walls, smoke barriers and floors shall be properly fire sealed to prevent the passage of smoke and maintain the integrity of fire barriers.

1. Such seals are the responsibility of the contractor for whom the penetration is provided.

1.13. SUPPORTS

A. The Contractor shall provide all concrete, steel bases and anchorage except as herein specified otherwise: vibration absorbing foundation bases, hangers, platforms, anchor bolts, etc. for all equipment which he furnishes. These foundations or supports shall be as specified under their

respective headings, as shown on the drawings and/or as recommended by manufacturers.

1. Materials and installation requirements for curbs and pads shall be commensurate with the need.
2. Concrete shall be 3500 psi minimum strength, air entrained 5% to 8% by volume. Install following commercial practices.
3. Framed curbs or foundations shall be properly supported.

1.14. PROTECTION OF WORK

- A. The Contractor shall protect his work and adjacent existing work from injury by keeping all piping, ductwork, etc. capped, plugged, drained, or otherwise protected from injury including damage done by freezing and damage from building materials, cement and/or dirt, concrete traffic or exposure.

1.15. ELECTRICAL SERVICES TO EQUIPMENT

- A. Unless otherwise specified the Contractor shall furnish and install electrical feeders of proper size, and furnish, install and complete all power wiring and the control wiring for each motor, electrified signage and/or piece of equipment affected by the Contract.
 1. Although circuits may be called for on the drawings, ALWAYS verify the final equipment requirements before pulling wire in the event it needs to be increased in size.
 2. Contractors providing equipment shall verify the circuits and protection level and need for safety switches matches what they are providing.
- B. All electrical procedures shall comply with the National Electric Code, whether temporary or permanent.

1.16. SEALANTS

- A. Provide sealants in all locations where shown on the Drawings or called for in the Specifications and as necessary for infiltration tight and weather tight building envelope and finished visual appearance.
- B. Sealants shall be provided in locations as directed by the Architect, where equipment components or fixtures fit to surrounds, and when cracks between equipment and surrounds are undesirable or excessive. Provide sealants in all interior locations, as necessary to properly trim out.
- C. Sealants shall be installed and tooled in strict accordance with the Sealant Manufacturer's recommendations for joint preparation, using foam rope backer bars, etc. Sealant shall be installed by the respective Contractor providing the item requiring sealant installation.

1.17. PAINTING

- A. All exposed surfaces or equipment reworked and installations leaving damaged or unfinished surfaces shall be painted or have a corrosion resistant or factory applied finish.
 - 1. Unfinished non ferrous metals such as aluminum and stainless steel do not require painting.
 - 2. Field paint unfinished equipment and surfaces for corrosion protection and visual appearance, except where clearly stated to the contrary on the Drawings.

END 00 2213

DIVISION 00 – PROCUREMENT REQUIREMENTS

Section 00 2413 – Scope of Bid

1. BASE BID

1.1. DESCRIPTION

- A. The Base Bid is to provide the Owner with all materials equipment and labor to complete the specified contract work.
1. All work per site is a single Contract, all trades to work under the general re-roof contractor.
 2. Two base bids to be awarded separately or to same vendor as decided by the owner and low responsible bids.
 - a. **Base Bid Prairie Central High School**
411 N. 7th Street, Fairbury, IL 61739
 - b. **Base Bid Prairie Central Primary West**
700 S. Division St., Chenoa, IL 61726.
 3. The Base Bid proposal must be for the specified work as may be modified prior to the bid time and date by addendum.
 - a. Do not add any additional description of what is included or excluded from the bid on the proposal form, this may disqualify the bid.
 - 1) The voluntary alternate form is available to offer variations to content or schedule or other potential savings that might be advantageous to pricing.
 - 2) Such voluntary alternates should neither revise the overall scope or end quality.
 - b. Fully fill out the proposal/bid form, omissions and failure to sign will disqualify the bid. Minor irregularities in filling out the bid form may be considered by the Owner as inconsequential to the intended bid and may be declared as such and the bid be accepted.
 4. Voluntary Alternates or Substitutions may be offered on the Voluntary Alternate and Substitution Form if provided or on the Contractor's letterhead if desired. Such options should not materially change the intent of the proposal. These may be considered or disregarded at the Owner's discretion without explanation.
 5. Coordination of operations:
 - a. **When staff students, registration occurs first two weeks of August schedule work, deliveries and noisy operations cooperatively.**
 - b. **See also the bid form for voluntary alternate to extend completion dates without penalty.**

B. Trade work anticipated:

1. Work; as noted on plans, as required to complete the work and including but not limited to
 - a. Demolition, tear off, clean up
 - b. Roofing Work, insulation, roofing and flashings
 - c. Carpentry Work
 - d. Plumbing work, such as raising gas pipes or extending vents as necessary.
 - e. Electrical Work, such as fans and the AC at the High School
 - f. Mechanical Work, such as fans and the AC replacement and the AC relocation at the high school.

1.2. UNIT PRICES

- A. None unless requested by addendum

1.3. ALLOWANCES

- A. **Include an allowance of \$10,000** for unexpected conditions (*damaged deck or rotten blocking as may be encountered*). Excess to be refunded at the conclusion of the work – assignment by agreed change order with the Owner.

1. **\$10,000 allowance per base bid, two sites is \$20,000 total for both the projects being bid.**

1.4. ALTERNATE BIDS

- A. The alternates are to provide the Owner with options expanding or reducing the project scope and content and for comparative material or equipment prices for use in determining the final construction contract.
- B. Work included in alternates shall be commensurate with and in compliance with all the applicable and similar project specifications and conditions and shall include all necessary adjustments and additional labor and/or material as may become apparent to properly complete the alternate into the work. No additional charge will be considered after bidding for the purposes of making additional construction or adjustments in order to accomplish alternative work which has been included in the Contract.
- C. Incidental Work: All necessary adjustment in the work shall be made to accommodate accepted alternates without cost change in and above the alternate cost.

1.5. ALTERNATE BIDS

High School Alternate #1HS: See plans for north end District office and fitness area.

PC Primary West Alternate # 1PCW: See plans for north side classroom area.

Blanks are also provided for each base bid or alternate bid area to list the cost of shorter term NDL warranties. They are located immediately below each bid category. A bid is not required for these warranty option but please be aware, an extended warranty may become the basis for the award if the Board selects a the shorter term for savings term.

END 00 2413

DIVISION 00 – PROCUREMENT REQUIREMENTS
Section 00 3000 – Project Schedule & Terms

1. GENERAL

1.1. SCHEDULING

A. Master Schedule

1. The General/Roofing Contractor as the Coordinating/Pacesetter Contractor shall maintain a Master Schedule.
2. Prior to preparation of the Master Schedule, all Subcontractors shall coordinate scheduling needs with the General Contractor.
3. Upon preparation of a detailed schedule, same shall be reviewed by the Architect and the Owner. Once accepted, it shall become the basis for determining the on time progress of the work.
 - a. Provide manpower, overtime, and equipment as needed to maintain the schedule. The Owner will not authorize additional payment for overtime or additional manpower needed to maintain, achieve, or make up time to meet the schedule.
 - b. The General Contractor shall notify the Architect and the Owner promptly of any deficiency in performance, which is unacceptably impacting the schedule or delaying progress.
 - c. The Subcontractor(s) shall immediately notify the General Contractor, in the event any trade area Contractor's progress is impeding their ability to maintain the schedule.
 - d. The General Contractor shall immediately provide notification of this report to the Architect and the Owner and shall include a plan of action to regain schedule.

B. Schedule

1. Contractors proposed schedule and timeline shall be delivered for review within seven (7) days or at the Pre-construction meeting.
 - a. Schedule will be subject to review and negotiated revision after Owner and Architect input are considered.
 - b. Contractor schedule should be available for the Preconstruction meeting.
2. Submittals shall be delivered promptly following award.
3. Upon receipt of review submittals, schedule material and equipment for delivery at contractor convenience.
4. Confirm that manpower is available and Contractor has adequate capacity to complete the work on a timely basis.
 - a. Materials and equipment may be stored on site in trailers or in suitable insured warehouses in or near the project location.

- b. Materials and equipment delivered on site or suitably stored with proof of insurance may be submitted for payment, subject to inspection.
- c. The Owner requests that equipment and materials to do the work be on site or readily available for delivery prior to the start of operations.

5. Schedule

- a. Project is planned for execution over the summer of 2016 with the schedule to be coordinated with the Owners schedule and in an orderly fashion.
 - 1) **Start operations on site immediately after May 28, 2020, anticipated award date.**
 - 2) **Substantial Completion date August 15, 2020**
 - 3) Final completion to follow two weeks following substantial completion.
 - 4) Any work scheduled after August 15 shall be second shift or weekends.
 - 5) Building will be occupied by staff throughout the summer.
 - 6) Coordinate deliveries and operations with Owner as needed.
- b. Cooperation, always include in your schedule for manning the work and planning completion,
- c. It is intended all work to be complete and fully operational 14 days after receipt of substantial completion punch list.
- d. See requirements for Manning the work described hereafter.
- e. The owner desires to get this project completed this fall.

C. Manning the work

- 1. It is the intention of the contract that **once work begins the project be manned daily weather permitting through completion and not pull off to complete other projects.**
- 2. Once started the job shall be promptly completed with the least possible inconvenience to owner operations
- 3. In the event work has stalled or is not proceeding in consistent manner, prepare a plan of action to recoup lost time for the A/E and Owner review.
 - a. Work overtime
 - b. Two shifts
 - c. Weekends

End 00 3000

PROJECT: 2020 Prairie Central CUSD #8 Reroof:
• Partial Reroof High School, 411 N. 7th Street, Fairbury IL 61739
• Partial Reroof Primary West, 700 S. Division Street, IL 61726.

DATE OF PROPOSAL: April 6, 2020 TIME: 2:00 p.m. CDST

LOCATION OF BID: SUPERINTENDENT'S OFFICE
Prairie Central CUSD #8
605 N. 7th Street
Fairbury, IL 61739

NAME OF FIRM _____

PROPOSAL FOR REROOF ACCORDING TO THE DRAWINGS AND SPECIFICATIONS

All work in each bid package is single contract

A/E PROJECT NO. 2498 0319 & 2499 0319 and the specifications, drawings and addenda applicable.

THE BID ACKNOWLEDGES THE FOLLOWING ADDENDA:

Failure to acknowledge may cause bid rejection

NO. 1 _____, NO. 2 _____, NO. 3 _____, NO. 4 _____, NO. 5 _____

EACH BID SHALL INCLUDE:

- A. The bid forms and certifications completed and signed, (*this form may be copied.*)
- B. Bid security (*standard industry forms may be employed*)
- C. Bids shall include **\$10,000.00 ALLOWANCE, per Base Bid location** to be refunded if not used – SEE specification section 00 2413 For example, if an alternate bid is taken, no change in the allowance, if a combination of Base Bids is taken then there would be two (2) allowances, or \$20,000.

THE BIDDER MAKES THE FOLLOWING REPRESENTATIONS AND CERTIFICATIONS:

- A. A surety company has agreed to issue payment and performance bonds to fulfill the contracting requirements.
- B. The Bidder is not barred from contracting with any unit of state or local government as a result of violating the bid rigging or bid rotating provisions contained in 720 ILCS 5/33E.
- C. The Bidder is not barred from contracting with the State of Illinois as a result of a bribery conviction per 30 ILCS 505/10.2.
- D. All on site labor and wage compensation provided by this contractor or his subcontractors will comply with the Illinois Prevailing Wage Act (820 ILCS 130E).
- E. This proposal is made without any connection with any person making another bid for the same contract, that the bid is in all respects fair and without collusion or fraud, that no member of the Prairie Central School Board, other officer or any person in the employment of Prairie Central CUSD #8 is directly or indirectly interested in the bid or any portion of the profit there from, except as allowed by the Illinois Law or the Illinois School Code.
- F. I agree to provide a drug-free workplace as required by the Illinois Drug-free Workplace Act.
- H. I do hereby certify that I am either the bidder or duly authorized agent of the referenced bidder, and I am authorized to execute the certifications hereon.
- G. I certify that by submission of this proposal the bidder confirms that he is familiar with the site, existing conditions, the Bid Documents, requirements and the project schedule.

Any combination of base bid(s) plus the associated alternate bid plus extended warranty prices may be employed by

the Owner to determine the low responsible bid for either or both sites. The priority of the base bids has not been established, the order on the bid form does not represent the priority of the probable awards.

For the 2020 Prairie Central CUSD #8 Reroof project, the bidder agrees to perform all base bid work, inclusive of all trades for the sum of:

Prairie Central High School, 411 N. 7th Street, Fairbury, IL
Base Bid 1972 Addition low roof, 25-year NDL warranty

_____ Dollars \$ _____
WRITTEN AMOUNT

Deduct for 20 year NDL warranty \$ _____

ALTERNATE NO. 1HS: District Office /Fitness Center roof, 25-year NDL warranty

_____ Add \$ _____
WRITTEN AMOUNT

Deduct for 20-year NDL warranty \$ _____
This does not change the specification for adding seam cover tape.

Prairie Central Primary West, 700 S. Division Street, Chenoa, IL
Base Bid Interior low Classroom Roof, 25-year NDL warranty

_____ Dollars \$ _____
WRITTEN AMOUNT

Deduct Add for 20-year NDL warranty \$ _____
This does not change the specification for adding seam cover tape.

ALTERNATE NO. 1PCW: North side classroom roof, 25-year NDL warranty

_____ Add \$ _____
WRITTEN AMOUNT

Deduct for 20-year NDL warranty \$ _____
This does not change the specification for adding seam cover tape.

Combination Base Bid if savings accrue in the event both Base Bid projects are awarded.
Do not bother to bid this option if you are simply adding the two base bids together.

_____ Add \$ _____
WRITTEN AMOUNT

Bidders clarification of schedule:

If awarded both projects and alternates I certify we have the manpower to complete the work in the scheduled time.

Or If awarded both projects and alternates an extension of time would be required or only award one to this firm, extension required _____,2020
Owner option whether to accept this extension and award both.

Or although proposals are offered on both projects our firm can only commit the manpower to complete one project this construction season _____ Initial here

THE BIDDER AGREES TO:

1. Hold this bid open for eighteen (18) calendar days after bid opening date.
2. Enter into and execute a contract with Prairie Central CUSD #8 if awarded this contract.
3. Comply with the contract and bidding documents with respect to bid security, all bonds, insurance, work requirements, schedule and Bonus / Penalty Clause.
4. Comply with the Contract Documents with respect to scheduling.
5. Follow the schedule proposed in Project Schedule specification 00 3000.

VOLUNTARY ALTERNATES OR SUBSTITUTIONS

This would be the opportunity to offer a reduced price or to propose an extended completion date or a 30 year NDL warranty option, or a new proposed substantial completion and completion date for application of the penalty clause. Bonus clause remains as specified in any event. For example, describe on the attached alternate voluntary form if you are awarded both jobs or whatever descriptive consideration would result in a cost adjustment to either or both base bids or the associated alternates.

Did you offer or include any voluntary alternates or product substitutions on form provided.

YES _____

NO _____

SEE PRODUCT SUBSTITUTION OR VOLUNTARY ALTERNATES FORM, ATTACH IF ANY ARE OFFERED.
Voluntary alternates or substitutions may or may not be considered in making the award and are not required.

Firm
Name _____

Firm
Address _____

Telephone _____

Fax _____

Email _____

Authorized Signature

Title

Contractors seal for corporations

00 4000 PROCUREMENT FORMS

Section 00 4010 - Voluntary Alternate and Substitution Form

The Bidder should include this form with the Bid Forms if a material substitution is offered at that time. It does not need to be attached if no voluntary alternates or substitutions are offered.

The Base Bid and Alternate Bids include only those products specified in the bidding documents and or included by addendum. Following is a list of substitute products which this bidder proposes to furnish on this project, with the difference in price being added to or deducted from the Base Bid or Alternate Bids.

Bidder understands that acceptance of any proposed substitution is at Owner's option. Approval or rejection of any substitutions listed below will be subject to review after Contract award. Hold open for thirty-five (35) days from Bid Date.

SUBSTITUTIONS

| MANUFACTURER'S NAME AND PRODUCT | ADD OR (DEDUCT) |
|---------------------------------|-----------------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

**VOLUNTARY ALTERNATE
DESCRIPTION**

ADD OR (DEDUCT)

| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

EVALUATION. Contract award will be made in accord with Instructions To Bidders. Only the lowest responsible bidder's Proposed Product Substitution Voluntary Alternates Form will be evaluated.

Attach with herewith or submit on day of bid a general description of the proposed option being offered.

Provide detailed information promptly upon request.

END 00 4010

SAMPLE OWNER - CONTRACTOR AGREEMENT

To be filled out upon award

Between:

The Owner: Prairie Central CUSD #8
605 N. 7th St.
Fairbury, IL 61739

And the General Contractor: _____

For the Project:

**PRAIRIE CENTRAL HIGH SCHOOL 2020 PARTIAL REROOF &
PRAIRIE CENTRAL PRIMARY WEST 2020 PARTIAL REROOF
FOR PRAIRIE CENTRAL CUSD #8**

The Owner and Contractor agree to enter into a contract in accordance with the terms and conditions of the Documents (Plans & Specifications), A/E Project Number 2498 0319 & A/E Project Number 2499 0319 and the Contractor's Bid Proposal dated April 6, 2020 which become the Contract for completion of the project as follows:

Base Bid Substantial Completion Date: August 19, 2020, Final August 26, 2020

Bonus penalty if applicable: See Section 00 2413 Scope of Bid for specific conditions of bonus penalty.

Additional Terms & Conditions: (as applicable)

Addenda: #1 _____ #2 _____ #3 _____ #4 _____ (list as applicable)

Contract Amount: (to be listed as appropriate)

| | |
|---|----------|
| Base Bid Proposal including \$10,000 allowance per base bid | \$ _____ |
| Alternate Bids as awarded to be listed | \$ _____ |
| Total Contract Amount | \$ _____ |

(Written) _____ Dollars

Date of Agreement: _____

Signatures:

Owner: Prairie Central CUSD #8

Contractor: _____

Contractor's Seal
(Corporation Only)

END 00 4113

DIVISION 00 – PROCUREMENT REQUIREMENTS
Section 00 7000 – General and Supplementary Conditions

1. GENERAL

1.1. GENERAL CONDITIONS

- A. The conditions outlined in this and following paragraphs are to supplement and complement the conditions found in the articles of the AIA Document A201, 2007 Edition.
 - 1. Included in these Specifications by reference is AIA Document A201 General Conditions.
- B. AIA Document A201, 2007 Edition, can be purchased directly on line from a variety of vendors including the AIA and are available in electronic format as well as printed.
 - 1. AIA A201 2007 version can be reviewed at the Architects office without charge.
- C. To the page one of the AIA A201 General Conditions Document:
 - 1. Projects
 - a. Prairie Central High School 2020 Partial Reroof, 411 N. 7th Street, Fairbury, IL 61739
 - b. Prairie Central Primary West 2020 Partial Reroof, 700 S. Division Street, Chenoa, IL 61726
 - 2. The Owner: Prairie Central CUSD #8, 605 N. 7th Street, Fairbury
 - 3. IL 61739
 - 4. The Architect: Middleton Associates Incorporated, 1702 W. College Ave., Suite E, Normal, IL 61761

1.2. SIGNING OF DOCUMENTS AND INSTRUMENTS OF THE CONTRACT

- A. All documents shall be signed by persons fully and duly authorized to so sign. Any documents signed by a person other than person prescribed by the Contractor's legal organization shall enclose with his signature the evidence of "Power of Attorney."

2. SUPPLEMENTARY GENERAL CONDITIONS

2.1. SUPPLEMENTS TO AIA DOCUMENT A201 (2007 EDITION) THE GENERAL CONDITIONS OF THE CONTRACT.

- A. The following sections represent modifications or additions to the AIA A201 -2007 Document.
- B. TO ARTICLE 2/OWNER
 - 1. Add Subparagraph 2.2.2.1 Easements off site required by the

Contractor to execute the work, such as space for storage, access, scaffolding, lane enclosure, etc., shall be arranged for by the Contractor and included in the contract amount.

C. TO ARTICLE 3 CONTRACTOR

1. To Subparagraph 3.3.1, delete the last two (2) sentences listed under 3.3.1 in their entirety.
2. To Subparagraph 3.3.1 insert: If the Contractor determines that such means, methods, techniques, sequences or proceedings may not be safe, or may not be appropriate to the equipment and task as becomes apparent, then said Contractor shall have included in his proposal amount allowance to complete this work per a revised plan for which he can assume responsibility and shall notify the Owner and Architect before proceeding. In no case do the Owner and Architect take responsibility for directing Contractor Operations.
3. To Subparagraph 3.12
 - a. Add 3.12.6.1 Submittals unmarked will not be reviewed at the Architect's option. Said unmarked submittals may be returned to the Contractor for re-submittal and the time loss shall not extend the time of completion of the project.
 - b. Add 3.12.6.2 Submittals reviewed by the A/E and returned or held as a record copy presume the Contractor responsibilities in paragraph 3.12.6 have been included whether noted or not.

D. TO ARTICLE 5 SUBCONTRACTORS

1. To Subparagraph 5.2
 - a. Add 5.2.5 The assignment of work or a portion of the work by the Contractor to Subcontractor(s) is the election of the Contractor and in no way changes or reduces the Contractor's obligations under the Contract to properly complete the work and/or provide clear title to the work, including the work by said Subcontractor(s).

E. TO ARTICLE 7 CHANGES IN THE WORK

1. To Subparagraph 7.1.2
 - a. Add 7.1.2.1 The Contractor and/or his Subcontractor shall not proceed with any work, directive or change for which he intends to claim extra cost without providing written notice to the Architect.
 - b. Add 7.1.2.2 The Architect and Owner shall provide response to claims for additional cost within a reasonable time period upon receipt of notice or quote.

- c. Add 7.1.2.3 Work for which an agreement cannot be reached prior to implementation can proceed as time and material work with all parties to agree on what is additional work over that which should have been included to complete the work as originally intended.
2. To Subparagraph 7.2.2
- a. Add 7.2.2.1 Change Order quotes shall be based on an approved quote or estimate which shall be based on labor and material cost, actual or estimated as prior agreed upon, and:
 - b. Add 7.2.2.2 Overhead and profit may be charged proportional to this category of work on the Contractor's CSV or not to exceed the greater of:
 - 1) Eighteen percent (18%) for the Contractor's own work forces
 - 2) Ten percent (10%) Subcontractor plus ten percent (10%) Contractor, for twenty percent (20%) total for work completed under a Subcontractor arrangement.
 - 3) These allowances shall include all off site and indirect costs, including insurance, project management, bonds and profit.

F. TO ARTICLE 9 PAYMENT AND COMPLETION

1. To Subparagraph 9.6.1
- a. Add 9.6.1.1 Wherein the Owner is governed by a public Board, payment requests must be received by the A/E 5 days prior to the established time for entering into agenda prior to the next regular Board Meeting. Payments will be made within twenty-five (25) days following Board approval. Failure to make agenda dates will result in a minimum one (1) month delay in payment.

G. TO ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

1. To Subparagraph 10.2.1
- a. Add 10.2.1.4 The Contractor shall be responsible to provide and maintain on site MSDS Sheets for all required materials to be brought on site.
 - 1) These sheets shall be readily available upon request to the owner on remodeling renovation projects which are Owner occupied.
 - 2) Comply with VOC regulations.

3) Comply with IEPA regulations.

2. To Subparagraph 10.2.3

- a. Add 10.2.3.1 Provide for the general safety of public and Owners employees, such safety provision shall be adjusted as appropriate to the age and volume of public anticipated in the project vicinity.
- b. Add 10.2.3.1 Provide for traffic safety as appropriate to the operations; cooperate with the governing authorities on road activities, lane closures, excavations, surface cleaning etc.

H. TO ARTICLE 11 INSURANCE & BONDS

1. To Subparagraph 11.1.2

a. Add 11.1.2.1 Minimum Limits of Liability for preceding coverage are:

- 1) Workers Compensation - Statutory Limit
- 2) Applicable Federal (*such as Longshoreman's*) Statutory limits.
- 3) Liability Insurance may be written as Comprehensive General Liability policy form or Commercial General Liability policy form with the following coverage:
 - a) Bodily Injury - \$1,000,000 each occurrence, \$2,000,000 aggregate
 - b) Property Damage - \$1,000,000 each occurrence, \$5,000,000 aggregate.
 - c) Property Damage – Broad Form - \$1,000,000 each occurrence, \$2,000,000 aggregate.
 - d) Personal injury (*with employment clause deleted*) \$1,000,000 aggregate.
 - e) Products and completed operations \$1,000,000 to be maintained one year following final completion.
 - f) Business Automobile Liability, (*including owned and non-owned and hired vehicles*)
 - g) Bodily Injury and Property damage \$1,000,000 each person, \$1,000,000 each occurrence.
- 4) Umbrella Insurance may be employed to supplement primary insurance limits to meet required limits.
- 5) Contractor is responsible for any self insured limits

not to exceed \$10,000 for any self insured hazards each occurrence

- 6) In the event that a claim is filed or a settlement reached whether related to this project or not which compromises the aggregate limits of liability then the Owner and Architect shall be notified and arrangements shall be made to provide additional insurance as needed to keep aggregate limits in force for the remainder of the Contract.

2. To Subparagraph 11.1.4

- a. Add 11.1.4.1 The Owner, Architect, and Consulting Engineers including their employees and representatives shall be included as Additional Insureds or Named Insureds on the insurance and shall be shown as such on the Certificate.

3. To Article 11

- a. Add 11.1.5 Contractor's insurance shall be maintained in force through basic warranty and guarantee periods, not less than one (1) year following Final Completion.

4. To 11.3. Property Insurance

- a. Add 11.3.1.1 The Owner's property and vandalism insurance has \$1,000 deductible. The Contractor shall insure and thus pay the costs not covered by the Owner's deductibles.
- b. Add 11.3.1.2 The Owner's Builder's Risk will cover only normally included Owner risks, on site, Owner's interest only, excluding tools and property of the Contractor and improperly stored or unsecured materials or loss/damage resulting from contractors operations.

5. To Paragraph 11.4.1 add the following Subparagraphs:

- a. Add 11.4.1.1 The Contractor shall furnish Performance and Labor and Material Payment Bonds covering the faithful performance by the Contractor of the work specified in accordance with the plans and specifications and according to the time and terms and Conditions of the Contract, and also that the Contractor shall properly pay all debts incurred in the prosecution of the work, including those for labor and materials furnished and including labor obligations as interpreted by the Illinois Department of Labor and/or the courts.
- b. Add 11.4.1.2 The cost of each bond shall be included in the Contract Sum plus any changes to the Contract Sum. The Contractor shall include in all bonds provisions as will

- guarantee faithful performance of the prevailing wage provisions of the Contract if applicable.
- c. Add 11.4.1.3 Bonds shall be written by surety, approved by Owner, with a minimum rating of B or better, Financial Class V, or higher, in A.M. Best's Insurance Guide, current edition. The company must also be licensed in the State of Illinois.
 - d. Add 11.4.1.4 The Contractor shall require the attorney-in-fact who executes the bonds on behalf of the surety to affix thereto a certified and current copy of power-of-attorney.
 - e. Add 11.4.1.5 The Contractor shall deliver the required bonds to the Owner not later than fifteen (15) days following the date the agreement is executed.

I. TO ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

1. To Subparagraph 12.2.2.1 After Substantial Completion:

- a. Add 12.2.2.1.1 Latent Defects, for a period of 10 years after Substantial Completion, upon demand by the Owner, the Contractor shall promptly repair or replace, including associated work repairs and cleanup necessary, defective or non-conforming work resulting from or constituting latent defects, fraud, fraudulent concealment or gross negligence.
- b. Add 12.2.2.1.2 Seasonal equipment such as temperature controls and building systems subject to seasonal loads such as heating equipment and air conditioning, shall be warranted to perform as intended for two years. Exception would be equipment damaged by incorrect operation or maintenance procedures, specifically covered in training, but improperly implemented by the Owner.
- c. Add 12.2.2.1.3 Prompt Repair. Upon notice from the Owner or Architect of defects or nonconforming work, the Contractor shall promptly visit the site in the company of the Owner's representative to determine the extent of all defects or nonconforming work. The Contractor shall provide all labor, material and equipment to promptly repair or replace the defective or nonconforming work. The repair shall include all adjacent work not necessarily provided by the Contractor, but damaged as a result of correcting or remedying such defects or non-conforming work. If the Contractor does not promptly pursue correction, the Owner may repair or replace such work and charge the cost to the Contractor. Work which is repaired or replaced by the Contractor shall be inspected and shall be warranted by the Contractor in accordance with this Article.
- d. Add 12.2.2.1.4 The warranties set forth herein are in addition to all warranties or guarantees expressed or implied by operation of law, statute or ordinance.

2. To Subparagraph 12.2.2.3, Delete the word 'not'. Clarification; all materials and equipment are expected to perform satisfactorily for

one year, items or equipment needing periodic attention during the first year of use, shall continue to be serviced by the Contractor until such time that the material, item or equipment is deemed to be doing its intended purpose without repeated service.

3. To Subparagraph 12.2.5

- a. Add 12.2.5.1 Extended Warranties and Commercial Warranties. The Contractor shall deliver all commercial and extended warranties received from manufacturers to the A/E prior to Final Payment. Extended warranties and guarantees will be as described under the various trade work sections of these documents, and may be the responsibility of third parties to the contract such as dealers or manufacturer's from whom such extended coverage is specified or as advertised such as a commercial limited warranty of performance or service. Such extended warranties may or may not include labor unless specified, or in the case of commercially advertised warranties as offered by the party selling the product or equipment.
- b. 12.2.5.2 Prompt Repair. Upon notice from the Owner or Architect of such defects or nonconforming work, the Contractor shall promptly visit the site in the company of the Owner's representative to determine the extent of all defects or nonconforming work. The Contractor shall provide all labor, material and equipment to promptly repair or replace the defective or nonconforming work. The repair shall include all adjacent work not necessarily provided by the Contractor, but damaged as a result of such defects or nonconforming work or as a result of remedying them. If the Contractor does not promptly repair or replace defective or non-conforming work, the Owner may repair or replace such work and charge the cost thereof to the Contractor. Work which is repaired or replaced by the Contractor shall be inspected and shall be warranted by the Contractor in accordance with this Article. The warranties set forth herein are in addition to all warranties or guarantees expressed or implied by operation of law, statute or ordinance.

J. TO ARTICLE 13 MISCELLANEOUS PROVISIONS

1. To Subparagraph 13.1

- a. Add 13.1.1 Location of the project is Illinois.
- b. Add 13.1.2 The Contractor shall, to the best of his knowledge and capability, perform all work encompassed by the documents, in compliance with the Environmental Barriers Act (Ill. Rev. Stat. 1985, ch. 111-1/2, pars. 3711 et seq. as amended), the Illinois Accessibility Code, 71 Illinois Administrative Code 400; The Uniform Federal Accessibilities Standards (UFAS); Section 504 of the

Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990 (effective January 26, 1992) known as ADA requirements. This obligation shall apply to the contractual work described as the project and the conduct of work processes initiated to accomplish the work.

- c. Add 13.1.3 All parties to this Contract are subject to the rules and regulations of the Illinois Department of Human Rights and the statutory requirements thereof, including the requirement that every party to a public contract shall have adopted written sexual harassment policies (PA 87-1257).
- d. Add 13.1.4 It shall be mandatory that the Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin or ancestry, age, marital status, physical or mental disabilities.
- e. Add 13.1.5 Illinois Department of Labor requirements. It shall be mandatory upon the Contractor to whom the Contract is awarded and upon any Subcontractors thereof to be in compliance with applicable wage and reporting regulations. This project is a Prevailing Wage Public Works contract.

2. To Subparagraph 13.3.

- a. Add 13.3.1 Notice served by facsimile (fax) to facsimile number used during bidding and construction shall be official written notice.
- b. Add 13.3.2 Notice served by electronic means (email) to the electronic address used during bidding and construction shall be official written notice.
- c. Add 13.3.3 The Bidder shall notify the Architect and/or the Owner at any time of changes in the facsimile or electronic contact addresses that will reach the contractor. Failure to so notify is the Contractors responsibility.

K. TO ARTICLE 15 CLAIMS AND DISPUTES

- 1. To Subparagraph 15.3.1 Delete the word 'SHALL' and Insert the word 'MAY'.
 - a. Add 15.3.1.1 Mediation may be employed to resolve disputes if agreed to by both parties to the Contract.
- 2. To Subparagraph 15.4.1 Delete the word Shall and insert the word 'MAY'.
 - a. Add 15.4.1.1 Arbitration may be employed to resolve disputes if agreed to by both parties to the Contract.

End 00 7000

1. GENERAL

1.1. REQUIREMENTS INCLUDE

A. Work covered by Contract Documents

1. The Contract includes all phases of the construction work pursuant to the Prairie Central High School 2020 Partial Reroof & the Prairie Central Primary West 2020 Partial Reroof projects and the accompanying Drawings.
2. Work is bid as two contacts each with alternates and option for combined price.

a. **Base Bid Prairie Central High School, AE project #2498**

- 1) See plans for location, this is the low roof over the 1972 Addition
- 2) 411 N 7th Street, Fairbury IL 61739

b. **Alternate #1HS – High School project #24989**

- 1) See Plans for location, this is the district office and partial fitness room roof.

c. **Base Bid Prairie Central Primary West, AE project #2499**

- 1) See plans for location
- 2) 700 S Division, Chenoa, IL 61726

d. **Alternate #1PCW , AE Project # 2499**

- 1) See plans for location, this is the roof over the north side classrooms

3. Each project is bid as a single contract, that is all necessary work and work depicted is in the roofing contract.

a. Demolition, New work and equipment as specified in the Documents

- 1) Roof and insulation systems
- 2) Gutters, scuppers and downspouts
- 3) Associated electrical work for lighting and damper control on roof ventilators
- 4) Associated mechanical work for roof ventilators, fans and plumbing vents
 - a) Please refer to plans and ME-1 plan sheet for additional work that needs to be included.
 - b) Replace/relocate 4-ton AC and coil inside

c) High School base bid
Relocate that reposition AC High School
Alternate #1..

- b. Associated work necessary to complete the work.
- c. Demolition work.

B. PRODUCTS FURNISHED BY OTHERS: All products, components, spaces, and equipment furnished by the Owner are currently in place and are to be relocated, disconnected and reconnected as set forth in these Documents (Specifications and Drawings) and/or required to accomplish these Documents. All added components shall be new and furnished by the Contractor.

C. Contractor's Incidental Duties

- 1. Designate specific delivery date for each product in approved construction schedule.
 - a. Avoid deliveries during times of high traffic on site, 6 to 9 AM and 2 to 4 PM
- 2. Promptly inspect delivered products, report damaged or defective items.
- 3. Handle at site, including unloading, uncrating, and storage.
- 4. Protect from exposure to elements, from damage.
- 5. Repair or replace items damaged as result of Contractor's operations.
- 6. Install, connect and finish products in assembly function ready including incidental related work.

1.2. WORK SEQUENCE

- A. The Owner will occupy the adjacent school facilities at varied occupation levels (full occupation during school year minimal occupation summer) during construction.
- B. Coordinate the work schedule with the Owner and building administrator.

1.3. SCHEDULE

A. Project Schedule

See project schedule section 00 3000.

- 1. Arrange schedule with Owner and owner Bus operator that will not unduly inconvenience or hamper their operations.

1.4. CONTRACTOR USE OF PREMISES

- A. Confine operations at site to areas permitted by:
 - 1. Law
 - 2. Contract
 - 3. The Owner's Representative.
- B. Do not unreasonably encumber site with materials or equipment. Do not block the Owner's pedestrian traffic patterns except as prior arranged with the Owner's approval.
- C. Do not load structure, or components thereof, with weight that will endanger or damage structure.
- D. Assume full responsibility for protection and safekeeping of products stored on premises.
- E. Move and relocate as necessary all stored products or equipment that interferes with operations of the Owner.
- F. Obtain and pay for use of additional off site storage or work area needed for operations.
- G. Limited use of site for work and storage
 - 1. Use public access ONLY, now in service. Parking ONLY as prearranged with the Owner.
 - 2. All vehicular on site activity shall have been prearranged and approved by the Owner.
 - 3. Space available for staging will be limited to areas that do not hinder bus traffic and bus maintenance operations.
- H. Cooperate with the Owner's use of the premises and other Contractors providing work on site under separate Contracts with the Owner.

1.5. CONTINUOUS OCCUPANCY BY OWNER

- A. Owner will occupy areas for purposes of conducting educational athletic and physical education and general maintenance during construction.
- B. Contractors shall provide
 - 1. Access by Owner's personnel and pupils when applicable.
 - 2. Operation of Mechanical and Electrical systems with a minimum of down time.
 - 3. Operation of exhaust systems with a minimum of down time.
 - 4. Adequate security of the premises in which work is in progress.
- C. Upon (after) the work being completed and accepted by Owner, the Owner shall provide:

1. Custodial services
2. Security
3. General custodial maintenance

1.6. ASBESTOS

- A. **No ACM in tear off materials found in testing**
- B. **Owners ACM representative/consultant may be on site periodically to consult with or deal with ACM issues.**
 1. **Roof test cut ACM information test cut is available upon request.**
- C. Wherein concealed asbestos is discovered, the Contractor shall notify the Owner of the existence of said apparent asbestos which may require analysis for hazardous determination. This notification shall be IN WRITING at no cost to the Owner. Should analysis indicate that hazardous substance does prevail the procedure shall be set forth under Item 1.6.B.2. above.
 1. NOTE: DELAY IN THE CONTRACTOR'S WORK DUE TO SUCH CONCEALED DISCOVERY AND/OR OWNER RESPONSE THERETO SHALL NOT BE GROUNDS FOR CLAIM FOR EXTRA EXPENSE BY THE CONTRACTOR CHARGEABLE TO THE OWNER AS AN EXTRA TO THE CONTRACT AMOUNT.

1.7. COORDINATION AND COOPERATION

- A. It is the intent and purpose of the Owner to cooperate with the Contractor to the extent feasible under existing applicable laws and regulations and the Owner and the Contractor alike shall not construe this portion of the documents, that is, Section Paragraph 1.6.A, and B to the disadvantage of the other.
- B. Should the bidding Contractor not understand the foregoing, he shall notify the Architect/Engineer for clarification prior to bidding.
- C. This Contractor shall cooperate with other Contractors and their Subcontractors working on site duly employed by the Owner to perform service related and unrelated to work outlined by these Documents.
- D. The Owner has the right to employ other contractors or his own forces to be working on site in concurrence with this Contractor's work. Coordinate and cooperate to the extent reasonable under the contract so all parties can collectively accomplish the work scheduled.

1.8. FITTING AND FINISHING THE WORK

- A. Contractor shall verify all field conditions, dimensions, elevations that relate to the work and properly accommodate these in the work as appropriate to

the intended result within the Contract amount.

1. In place construction, obstacles and site conditions and elements which can be seen and reasonably inferred.
2. New construction, obstacles and conditions that can be seen or are to occur in the completion of the work.
3. Allow to fit structural elements and all equipment as occur or will occur during the implementation of the Contract.
4. Make adjustments as needed to fit and properly complete the work. This includes coordination of work by all trades.

B. Contractor and his Subcontractors shall coordinate, accommodate, adjust and fit as appropriate all work to achieve the intended finished intent to normal commercial industry standards.

1. Provide finishing elements, trim, sealants, scribes, receivers and accessories necessary and normal to the installations proposed and as recommended by manufacturers for proper use of products.
2. All construction (all trades) to be weather and infiltration tight. Include appropriate weather seals, infiltration barriers, sealants, non-corrosive flashings and sealants to properly complete the intent of the project.
3. Provide all necessary work to complete all installations, equipment and parts of the work to be complete and properly operable, under control for motorized equipment, in a finished appearance and condition, unless specifically noted otherwise.
 - a. Conceal piping and conduit to the extent possible
 - b. Run piping and conduit and supports parallel and/or perpendicular to main structural elements when possible.
 - c. Avoid creating trip hazards or low headroom hazards when possible
 - d. Always allow for service access.
4. Always comply with the International Energy Code
 - a. Infiltration tight
 - b. Watertight
 - c. Insulation and continuous insulation, types and assembly U or R values as well as component ratings.
 - d. Air barriers continuous to the extent possible at assembly junctures, windows to walls, walls to roof assembly, walls floor to floor.

END 01 1000

DIVISION 01 – GENERAL REQUIREMENTS
Section 01 2500– Substitutions & Product Options

1. GENERAL

1.1. SPECIFIED PRODUCTS

- A. All bids shall be based on providing products exactly as specified or equal as prior approved.
- B. Products specified only by reference or performance standards, shall be met or exceeded by the standards of any manufacturer's material and subject to the Architect/Engineer's approval.
- C. Products specified by naming several products or manufacturers shall be selected from any product and manufacturer named.

1.2. SUBSTITUTIONS, BIDDER/CONTRACTOR OPTIONS

- A. PRIOR TO BID OPENING - The Architect/Engineer will consider requests to amend the bidding documents to add products not specified, provided such requests are received in adequate time prior to bid opening date.
 - 1. Requests received after ten (10) days before bid due date will not be considered.
 - 2. If a request is approved, the Architect/Engineer will endeavor to issue an appropriate addendum not less than seven (7) calendar days prior to bid opening date.
 - 3. Ten (10) days is based on the start bid date and will not be extended by bid extension unless same is extended more than ten (10) days.
- B. WITH BID - Substitutions will not be considered with the base bids
 - 1. Such options can be offered as a voluntary alternate on the form provided.
 - 2. The Owner without explanation can consider, accept or decline voluntary options offered and same can be considered in determination of low responsible bid.
- C. AFTER AWARD OF CONTRACT - No substitutions will be considered after Notice of Award, except under one or more of the following conditions:
 - 1. Substitution is required for compliance with final interpretations of code requirements or insurance regulations.
 - 2. Unavailability of specified products, through no fault of the Contractor.
 - 3. Subsequent information discloses inability of specified product to perform properly or to fit in designated space.
 - 4. Manufacturer/fabricator refusal to certify or guarantee performance of specified product as required. This does not alter the requirement.
 - 5. When a substitution would be substantially to the Owner's best

interest.

1.3. SUBSTITUTION REQUIREMENTS

A. Submit two (2) copies of each request for substitution. Include in each request for substitution:

1. Complete data substantiating compliance of proposed substitution with Contract Documents.
2. For products:
 - a. Product identification, including Manufacturer's name and address.
 - b. Manufacturer's literature.
 - 1) Product description.
 - 2) Performance and test data.
 - 3) Reference standards.
 - c. Samples, if applicable.
 - d. Name and address of similar projects on which product was used and date of installation.
3. For construction methods substitution:
 - a. Detailed description of proposed methods.
4. Itemized comparison of proposed substitution with product or method specified, including accurate and true cost data on proposed substitution in comparison with product or methods specified.
5. Data relating to changes in construction schedule.
6. Identify:
 - a. List other contracts affected, if applicable.
 - b. List changes or coordination required.

B. In making requests for substitution, bidder/contractor represents:

1. He has personally investigated proposed product or method and determined that it is equal or superior in all respects to that specified.
2. He will provide the same guarantee for substitutions as for product or method specified.
3. He will coordinate installation of accepted substitutions into work, making all such changes as may be required for work to be complete in all respects.
4. He will provide complete cost data including all related costs under his contract (and other Prime Contract's, as applicable) whose work may also be affected by the substitution in product or method.
5. He will assume full responsibility for all additional costs and

expenses to the Owner, Architect/Engineer (and other contractors employed on the same project, as applicable).

6. The Contractor agrees that it is the Contractor's sole responsibility to stand any costs that may be attributable to an allowed substitution that may surface as construction proceeds toward finalization.

C. Substitution will not be considered if:

1. It is indicated or implied on shop drawings or product data submittals without formal request submitted in accordance with Paragraph 1.4 above.
2. Acceptance will require substantial revision of Contract Documents.

END 01 2500

DIVISION 01 – ADMINISTRATIVE REQUIREMENTS
Section 01 3000 – Project Management

1. GENERAL

1.1. MANAGEMENT OF THE CONTRACT

A. The contractor shall provide necessary project support to manage necessary support documentation in an accurate and timely fashion.

1. Following award, ten (10) calendar days, submit two (2) copies:

- a. Signed agreements
- b. Insurance
- c. Bonds, Labor and Material payment and Performance or approved Owner protective bond.
- d. Subcontractor/supplier List – provide promptly prior to signing the of contract
- e. Contractor Schedule of Values, labor and materials and by trade and task breakdown.

2. Pre-Construction meeting:

- a. Provide proposed schedules
- b. Project access and site access needed for remodel/renovation projects
- c. Project security plans, fences, storage facilities, public access control.
- d. Contact information
- e. Identify Project management team, Superintendent of the work,

3. Prior to start of the work on site:

- a. NOI permit from IEPA as applicable on projects excavating over 1 acre or more.
- b. Background check information as applicable to this project.
- c. Permits
- d. Have in place the safety plan and assigned safety person on the site. Safety is the responsibility of the contractor, and is not monitored or directed by the Owner or the A/E except in apparent emergency situations where the Owner or the A/E might assist in determination of safety accommodations as identified by the contractor.
- e. Have in place the fences and barricades to control public or non-contractor access to the site.

1.2. SUPERINTENDENT OF WORK

A. The Contract shall designate a person who shall be General Superintendent of on site construction work encompassed by the Contract Documents.

1. Said designated superintendent shall have prior served as project superintendent of construction of similar nature and size. Qualifications shall be subject to the Owner's and Architect's review.
2. Superintendent shall remain superintendent for the duration of the project unless said person shall become disabled, no longer employed by the Contractor. The Contractor shall provide notice to the Architect and the Architect and Owner shall approve the personnel change.
3. Owner can request superintendent replacement for cause at any time.

1.3. AWARD AND LETTER OF INTENT

- A. The Owner will make an award based on the selection of the lowest cost responsible bidder that has demonstrated past experience and evidence of adequate resources to accomplish the work. After the award, and the issuance of a Letter of Intent, the contract timeline is as follows:
 1. Return signed agreement seven (7) days
 2. Sub Contractor, Supplier, or any entity to be assigned a part of the work, provide list, addresses and contact information. Seven (7) days. Provide references upon request. Seven (7) days:
 3. Labor and Materials, Payment, and Performance bonds, 15 days
 4. Insurance, 15 days
 5. Master Cost Breakdown (CSV), 15 days
 6. Proposed Schedule and time line, 15 days
- B. Failure or refusal to provide the preceding Contract information in a timely manner may be cause for cancellation of the award or termination of the agreement if signed and the Owner will be entitled to compensation under the terms of the bid security for failure to execute contract terms in good faith.

1.4. MATERIALS SPECIFIED AND QUALITY OF WORK

- A. Materials shall be as specified or approved equal.
- B. "Approved equal" and "or equal" shall mean that the Contractor shall be required to receive the Owner's approval (via the Architect) on any substitute materials seven (7) days prior to the bid due date.
- C. Requests for substitution approval shall be submitted to the Architect/Engineer.
 1. Prior to considering substitutions, the Owner and/or the Architect/Engineer may require submission of samples, descriptive, technical and catalog data and lab reports of tests for verification of equivalency.
 2. Said submittals shall be presented to Architect/ Engineer.

1.5. PROGRESS PAYMENTS

- A. All payments by the Board of Education require Board approval.
 - 1. Payment requests must be submitted prior to the first Monday of the month for consideration and entry into the agenda.
 - 2. Untimely submission of payment request will result in a one (1) month delay for consideration.
 - 3. The Contractor will be notified of the regular Board meeting schedule upon request.
 - 4. Payment will be made within twenty (20) days following board approval, or a notice of board concerns will be provided.

- B. In accordance with the terms of the Contract periodic partial progress payments may be made monthly to the Contractor for: 90% of the value of the labor, materials, and/or equipment incorporated in the construction.
 - 1. Payment will be for completed progress materials only.
 - 2. Materials properly stored and protected on site may be billed
 - 3. Payment for Materials off site may be considered if properly warehoused, dedicated to this project and insured, Submit all information and same will be reviewed and may be approved or denied for payment.
 - 4. Progress pay requests shall indicate amounts completed of all items listed from the master breakdown.
 - 5. 10% of each request will be retained by Owner until work has been satisfactorily completed.
 - 6. Submit lien waivers for preceding payments made.
 - 7. Submit lien waivers from subcontractors and suppliers.
 - 8. Submit notarized Contractor's affidavits with each pay request showing that total owed on Contract by Owner (after subject request has been paid to Contractor) is more than the amount to become due the Contractor for material, subcontractors and labor.

- C. All the applications for payment shall be made in three (3) copies with all copies bearing live seals and signatures, notarized and complete and accurately filled in.
 - 1. Applications for payment shall be submitted to Architect/Engineer on AIA G-702A Forms or other standard formats containing similar information.

- D. Public Projects only: Attach one (1) copy of Contractor's Certified Prevailing Payroll with Pay Request in accord with Dept. of Labor requirements. Include Payroll for the major Subcontractors and upon request any minor or intermittent on-site Subcontractor.
 - 1. Submit beginning with the first application for payment for all workers employed on site
 - 2. Submit for each successive month with each pay request.

- 1.6. FINAL PAYMENT: The final application for payment shall not be made until all work and deficiency (punch list) items have been satisfactorily completed and approved by the Architect/Engineer for documents compliance.
- 1.7. EMPLOYEE-STUDENT RELATIONSHIPS
- A. Except in an emergency situation involving safety, there is to be no intermingling of the Contractors' employees and the school faculty, staff and students violating this requirement shall be removed from employment at this site. Contractor employees experiencing problems with students or faculty shall report same to their project superintendent, who shall promptly report the problem to an authorized representative of the Owner and the Architect/Engineer.
1. Avoid profanity and inappropriate subject matter in conversation as students and staff may be within audible range and walls or ceiling spaces may allow sound transmission.
 2. Verbal or physical action interpreted as sexual or sexually suggestive in nature or as sexual harassment will be grounds for removal of the employee from the site. Further legal action remains the option of the persons affected.
 3. In all aspects of this provision, the Contractor's employees as adults have the greater responsibility and should not respond to inappropriate student behavior.
- B. Authorized agents of the Owner include the District Superintendent, District Building and Grounds Supervisor, the District Financial Services Director and the Architect/Engineer. The School Principal is authorized to discuss concerns regarding operations on site, but is not authorized to order changes in the work.

End 01 3000

1. GENERAL

1.1. DESCRIPTION

- A. Prior to commencing the work, the Contractor shall provide submittals on all materials and equipment proposed for the work.

1.2. Shop Drawings, Submittals, and Submittal Brochures

- A. Submit four (4) copies minimum unless notes otherwise in a particular section.
 - 1. In lieu of paper submittals electronic submittals in pdf format are acceptable, directly submitted not through a submittal clearing house service.
- B. Architect and/or Owner will retain two (2) copies.
- C. Contractor will receive remaining copies for his use.
- D. Shop drawings and material schedules shall be accompanied by catalog cuts or literature providing all data, description, function, and capacity of item or component submitted.
- E. Catalogs and fliers with multiple component descriptions shall be clearly and precisely marked as to submittal item. The Architect/Engineer's office will provide no sorting to assure the submittals match with documents requirements.

1.3. Samples

- A. **When samples are requested** submit two (2) unless arranged otherwise.
 - 1. Samples or color cards with color chips will normally be required for any items requiring color selection.
- B. All samples will be retained unless otherwise noted in the documents or requested by the vendor. Samples for return may be held until the material is installed on site.

1.4. Project record information

- A. The Contractor shall, within seven (7) days of Notice of Award, submit to the Architect the following:
 - 1. Name of person under Contractor employment at the job site in charge of the work and safety.
 - 2. Provide a contact list including emergency contact information for all relative parties to the work, including the superintendent, the

project manager, subcontractors, and major vendors.

1.5. Project Record Documents

1. Operating and Maintenance Manuals.

- a. Submit three (3) bound, indexed copies minimum.
- b. These manuals shall include all Shop Drawings and all Submittals, all Equipment Brochures, Operating Manuals, Operating Instructions, names, addresses, and telephone numbers for guarantee work, all bound into a good quality binder or loose-leaf notebook, clearly labeled.
 - 1) Submit one printed and one electronic.
- c. THE SHOP DRAWINGS RETAINED BY THE OWNER AND ARCHITECT ARE NOT AVAILABLE FOR PREPARING THESE MANUALS. If additional copies are required for this, the Contractor shall make allowance and copy additional sets.
- d. Include warranty information and warranty contact information.

2. Record drawings: Maintain as work proceeds record drawings marked to show any variances in installations, particularly underground and concealed services.

1.6. AS-BUILT DRAWINGS

- A. The Contractor shall provide the Architect/Engineer's Office with one marked set of drawings showing changes from the original drawings. Marked As-Built Drawings shall be submitted upon progress having Substantial Completion progress.
 1. Preferably markings should be in red, clearly legible and easily understood.
 2. Clearly and boldly label the set As Built or Record Drawings.

1.7. IDENTIFICATION OF SUBMITTALS

- A. The Contractor shall clearly mark each submittal of the Shop Drawings, Catalog Cuts, Pamphlet, or Specification Sheet for identification and record, for example:
 - a. DATE: As submitted
 - b. BUILDING: Project Name
 - c. LOCATION: City
 - d. TYPE OF EQUIPMENT: (Example – AHU 1)
 - e. SUBMITTED BY: Contractor's Name and contact information for questions.

2. Data shall also indicate model number selected for furnishing and indicate capacities or conditions of operation.
 - a. Catalog data of general advertising nature, without specific outline or rating for equipment, will be rejected.
 - b. Marked product manufacturer's catalogs and engineering data shall accompany the submittal.

1.8. REVIEW OF SUBMITTALS

1. Submittals will be reviewed by the Architect and/or the Owner and will be checked for Contract compliance and the basic fabrication methods.
2. The Contractor must verify all the dimensions, field conditions, field clearances, and rough-in requirements with adaptations as necessary.
3. Submittals are to be reviewed and corrected first by the Contractor. If submittals contain obvious oversights or conditions that make it apparent they have not been checked, they will be returned for re-submittal.
4. Architect/Engineer review of a submittal shall not relieve the Contractor of contract compliance unless any variance is specifically brought to the attention of the Architect and/or Owner IN A LETTER FORM attached to the submittal data and subsequently approved by the Architect/Engineer IN WRITING.
5. An omission on the shop drawings or a review oversight by the Architect/Engineer shall not be construed as the calling of specific attention thereto.
6. It is not the responsibility of the Architect Engineer to request submittals, failure to submit presumes contract compliance is understood.
7. It is not the responsibility of the Architect Engineer to provide rapid review turnaround on a delayed submittal to maintain schedule. The Contractor shall make submittals in a timely manner generally allowing at least ten (10) days for review.

END 01 3300

DIVISION 01 - GENERAL REQUIREMENTS
Section 01 3516 – Alteration Project Procedures

1. GENERAL

1.1. REQUIREMENTS INCLUDE

A. Contractor:

1. Coordinate work of all crafts including that of subcontractors and his crafts as applicable.
2. Schedule elements of remodeling and renovation work to expedite completion.
3. Schedule noisy or hazardous work to avoid problems with the Owner's day-to-day building functions and general maintenance operations.
4. In addition to required incidental demolition specified in various sections, and that shown on Drawings, cut, move or remove existing construction to provide access or to allow remodeling and new work to proceed. Include:
 - a. Removal of temporarily or permanent Electrical and Plumbing devices, circuits and piping plus the reinstallation of same as required to continue service.
 - b. Removal of unsuitable or extraneous materials and non-functioning components not marked for salvage, such as abandoned furnishings and equipment, and debris such as rotted wood, rusted metals, abandoned electrical and mechanical components, and deteriorated concrete.
 - c. Cleaning of surfaces. Remove surface finishes to install new work and finishes.
5. Patch, repair and refinish existing items to remain, to the specified condition for each material, with a neat transition to adjacent new construction.
6. Move room furnishings to allow access to specified floor, wall and ceiling work. Relocate same in place at the completion of specified rehab work.
7. Cooperate with the Owner and schedule ahead pursuant to rehab work at locations involving preparatory work by Owner - see 1.1.B. of this section.

B. Owner:

1. Remove, store and replace books and files to allow Contractor access to floors, walls and ceiling, room by room, on schedule determined by the Contractor.
2. Cooperate with the Contractor pursuant to providing Contractor access to rooms and areas scheduled for rehab - see 1.1.A. 6 & 7 this section.

1.2. RELATED REQUIREMENTS

A. Specified elsewhere:

1. DIVISION 00 - PROCUREMENT REQUIREMENTS
2. DIVISION 01 - ADMINISTRATIVE REQUIREMENTS

1.3. SEQUENCE AND SCHEDULES: Schedule work in sequences within times specified in 01 1000.

1.4. ALTERATIONS, CUTTING AND PROTECTION

A. Assign moving, removal, cutting and patching work to crafts qualified to perform the work in a manner to cause least damage to each type of work, and provide means of restoring surfaces to appearance of new work.

B. Perform cutting and removal work to minimize removals, and in a manner to avoid damage to adjacent work.

1. Cut finish surfaces such as masonry, tile, plaster or metals by methods to terminate surfaces in a straight line at a natural point of division.

C. Perform cutting and patching in accordance with the general and supplementary General Conditions.

D. Protect from damage existing finishes, equipment and adjacent work which is scheduled to remain.

1. Protect existing and new work from weather and temperature extremes.
2. Provide weather protection, waterproofing, heat and humidity control to prevent damage to remaining existing work and to new work.

2. PRODUCTS

2.1. SALVAGED MATERIALS

A. The Contractor shall:

1. Remove all existing reusable components such as hardware, (hinges closers, locks, panic sets, door stops, kick plates and latch sets) and deliver same to the Owner at a location to be determined by the Owner.

2.2. MATERIALS FOR PATCHING, EXTENDING AND MATCHING

A. Ensure that work is complete:

1. Provide same materials or types of construction as that in existing

structure, to patch, extend or match existing work.

- a. Contract Documents may not define products or standards of workmanship present in existing construction.
 - b. Consult the Drawing Details and/or consult the Architect/Engineer.
2. Presence of a product, finish or type of construction requires that patching, extending or matching be performed to make work complete and consistent to identical or better quality standards.

3. EXECUTION

3.1. REMOVE EXISTING CONSTRUCTION

- A. Consult the drawings for removals and replacements as set forth.

3.2. PERFORMANCE

- A. Patch and extend existing work using skilled craftsmen capable of matching existing quality of workmanship.
- B. For patched or extended work, provide quality equal to that specified for new work.

3.3. ADJUSTMENTS

- A. Where existing construction and components are removed, patch floors, walls, doors, trim, and ceilings with finish materials to match existing as closely as possible.

3.4. DAMAGED SURFACES RESULTING FROM CONTRACTOR WORK

- A. Patch and replace all portions of the existing finished surfaces found to be damaged, lifted, discolored or showing other imperfections, with matching material.
 1. Provide adequate support prior to patching the finish.
 2. Refinish patched portions of painted or coated surfaces in a manner to produce uniform color and texture over entire surface.
 3. When existing surface cannot be matched, refinish entire surface to nearest intersections.

3.5. TRANSITION FROM EXISTING TO NEW WORK

- A. When new work abuts or finishes flush with existing work, make a smooth transition. Patched work shall match existing adjacent work in texture and appearance as closely as possible.
 1. When finished surfaces are cut in such a way that a smooth transition with new work is not possible, terminate existing surface

in a neat manner along a straight line at a natural line of division, and provide trim appropriate to finished surface.

2. Refinished surfaces must be weathertight as appropriate to the exposure

3.6. CLEANING

- A. Perform construction cleaning as specified in Section 01 7800.
 1. Clean Owner occupied areas, where work prevails, daily.
 2. Clean all spillage, overspray and heavy dust collections in Owner's occupied areas immediately.
- B. At completion of work of each craft, clean area and make surfaces ready for work of successive crafts.
- C. At completion of alterations work in each area, provide final cleaning for occupancy and return space to a condition suitable for use of Owner.

END 01 3516

DIVISION 01 - GENERAL REQUIREMENTS
Section 01 4216 - Definitions

1. GENERAL

1.1. GENERAL TERMS USED IN THE CONTRACT

- A. OWNER: Prairie Central CUSD #8, 605 N. 7th St., Fairbury, IL 61739.
- B. CONTRACTOR: A person, firm or corporation with whom a Contract or Agreement is made by the Owner.
- C. GENERAL CONTRACTOR: The General Contractor furnishes all of the work in the documents. Pursuant to these Documents the Designating Contractor, General Contractor and Prime Contractor shall be one and the same.
- D. ARCHITECT OR A/E: Middleton Associates, Incorporated, 1702 W. College Ave., Suite E, Normal, IL 61761 - Telephone 309/452-1271, Fax 309/454-8049, e-mail: russ@middletonassociates.net
- E. DOCUMENTS: The Drawings, Specifications and Contract as apply to all areas of the work.
- F. WORK: All obligations undertaken by the Contractor, pursuant to the Contract Documents.
 - 1. Work includes, but is not limited to, the furnishing of all of the materials, labor, equipment, supplies, plant, tools, scaffolding, transportation, unloading, superintendence, insurance, bonds, taxes and all other services, facilities, required demolition (major and minor as applicable) and expenses necessary for the full performance and completion of requirements of the Contract Documents.
 - 2. Work also means that which is produced, built, or constructed, pursuant to the Contract Documents.
 - 3. Work includes all labor and materials to properly install and make functional.
- G. PROVIDE: Furnish and install (including materials, accessories and labor) ready for the Owner's use. Comply with manufacturer's installation requirements as minimum standard, Drawings and Specifications where installation requirements exceed manufacturer's recommendations.
- H. EQUAL, APPROVED EQUAL: Alternative products meeting or exceeding the base specification product or process and approved by the Architect/Engineer IN WRITING as suitable for this application. If not accepted prior to bidding, acceptance is discretionary.

- I. **SUBSTANTIALLY COMPLETE:** When work progress has arrived at the point where the Owner may have full use of the installation for the purpose for which the same was installed, all components installed, equipment operating under control and minimum code compliance achieved, then, the work may be declared substantially complete if so requested by the Contractor and specifically approved by the Owner.
 - J. **PUNCH LIST:** Those items, components, installation inclusive of labor and materials (in place) which, in the opinion of the Architect/Engineer or the Owner do not conform to the intent of the Contract Documents and/or adequately satisfy the purpose and intent of the Owner.
 - K. **DESIGNATED WORK:** Wherein the documents designate that one contractor shall provide specified material and labor for another trade area contractor, the cost of the work and material shall be included in the bid of the contractor that is designated to provide the material and labor.
 - L. **AND/OR:** Wherein employed in the documents shall be either and both, singularly and together, as applicable to the intent of the Project Documents.
 - M. **CONCEALED:** Concealed building components, services, and obstacles subject to Change Orders, shall be limited to those components, services, obstacles, etc., not designated or known to exist, not typical to the type of construction observed and not available for inspection without destructive action. Opening of access panels, looking above accessible ceiling systems or inside chase walls is not considered concealed items.
- 1.2. In general, definitions of words employed in the Contract Documents shall be as defined in "Webster's New World Dictionary" the latest edition. The Architect shall be the interpreter in the case of multiple meanings. Exceptions to this shall include longstanding meanings in the construction industry but have not been so defined in Webster's Dictionary. Determination shall be in accordance with these Specifications.

END 01 4216

DIVISION 01 - GENERAL REQUIREMENTS
Section 01 5000 - Temporary Facilities & Controls

1. GENERAL

1.1. WORK INCLUDES

- A. Contractor shall provide and maintain specified or necessary temporary utilities and facilities.
- B. Contractor may extend electrical and water services from Owner's existing sources.
 - 1. Tap on and extension of services shall be implemented and paid for by the Contractor requiring utility.
 - a. Tap on arrangements must be coordinated with the Owner, and shall not compromise the Owners operations or equipment.
 - 2. Return tap on surrounds to original or contracted configuration and circumstances at close of job by the Contractor.
 - 3. Extension shall not compromise Owner's operations.
- C. Contractor shall furnish (included in his Base Bid):
 - 1. The cost of all utilities required by him which:
 - a. Are in excess of existing available at the building and are necessary for the completion of his work.
 - b. Exceed the capacity of existing or permanent systems and are necessary for the completion of his work.
 - c. Required prior to permanent enclosure.
 - 2. Extension cords, extension lights and lamps from approved temporary power centers to his work.
 - 3. Ventilation for his storage spaces containing volatile or hazardous materials.
 - 4. Security for materials and equipment.
 - 5. Heating as needed to protect construction form freezing or frost damage.
- D. Furnished by Owner
 - 1. Authorization of existing facilities for temporary use.
 - a. Electrical power service
 - b. Water service extended from existing outlets by the Contractor
 - 2. Owner will pay all costs of power and water consumables used for

construction purposes for utilities properly extended and use not abused.

3. The Contractor requiring Owner-furnished services, shall provide and pay for extension or modification of services to perform the work and for restoration of services and Owner equipment at completion of the work.

E. Water Service:

1. For construction purposes:
 - a. The Contractor shall provide and maintain temporary water service connection throughout construction period.
 - b. The Contractor shall supply adequate water hoses from hose bibs to the point of his operations.
2. For temporary fire protection and cleaning.
3. Maintain adequate volume of water for all purposes.
4. The Contractor provides drinking water for his own forces.
5. Water source: On or off site.

1.2. COST OF INSTALLATION, OPERATION, MAINTENANCE & CONSUMABLES

A. Installation, operation and maintenance:

1. The Contractor requiring service extensions shall pay all costs of installation, operation, maintenance, restoration and equipment warranty extension of temporary utilities for designated time periods.
2. The Contractor shall not overload the system.

B. Consumables:

1. Contractor pay all costs of consumables for temporary utilities, as designated:
 - a. Heating Fuel via Temporary Heating Units: Contractor requiring same.
 - b. Heating
 - c. Electrical Energy Contractor except as properly extended.
 - d. Lamps: Contractor requiring same.
 - e. Water: Owner as properly extended.
 - f. Toilets and Supplies: Contractor.

1.3. MONITORING OF TEMPORARY UTILITIES

- A. The Contractor extending or providing a temporary utility extension shall be responsible for all damage to his work or to the existing facility caused by a defect in temporary utilities or utility extensions.

1. Enforce compliance with specified codes and standards.
2. Enforce safe practices.
3. Prevent abuse of services and utilities.
4. Prevent damage to finishes.

B. Upon completion of work, or when directed by Architect/Engineer, restore existing systems to original condition.

2. PRODUCTS (Not applicable)

3. EXECUTION

3.1. ALL TEMPORARY UTILITIES AND EXTENSIONS

- A. Comply with DIVISION 15 and DIVISION 16 Specifications and Federal and State regulations.
- B. Install work in a neat and orderly manner.
- C. Be made structurally, mechanically and electrically sound throughout.
- D. Be maintained to give safe, continuous service, and to provide safe working conditions.
- E. Be modified and extended as work progresses.

3.2. INSTALLATION

- A. Electrical:
 1. Protect branch circuits or extension wiring on floor or on ground from damage.
 2. Provide ground fault outlets
 3. Wiring for temporary heating and ventilating equipment:
 - a. Wire all safety devices specified for operation or equipment.
 - b. Verify proper operation of all safety devices.

3.3. REMOVAL & REINSTALLATION

- A. At the conclusion of the work, completely remove temporary materials and equipment.
- B. Repair all damage caused by installation. Restore to original condition or better.

END 01 5000

1. GENERAL

1.1. WORK INCLUDES

A. Completed Deficiency List

B. Final Cleaning

1. Clean all finished areas impacted by the work ready for occupancy, dust, remove debris, mop or vacuum as appropriate, seal and wax if specified. Concrete sealers free of scuffs and scratches
2. Unoccupied areas, above ceilings, tunnels, chases, Mechanical areas, roof, etc., free of debris reasonably cleaned up of construction scraps, tools boxes.
3. Equipment cleaned and ready for occupied use, new filters, and spare filters stored in location directed.
4. Site and exterior cleaned up, no debris, equipment, tools removed.
 - a. Sidewalks clean
 - b. All debris picked up and disposed of.
 - c. Earthwork finish graded, seeded if specified
 - d. Drainage ways open

C. Project Record Drawings

1. Contact list of Installing Contractor and/or Subcontractors.

D. Guarantees, Warranties and Bonds

1. Contact list for warranty claims.

E. Submittal

1. All materials shall be submitted in multiple copies in an orderly and labeled fashion.
2. Generic documents not filled in, dated, and job specific are not acceptable.

1.2. EVIDENCE OF COMPLETION OF THE CONTRACT

A. Equipment and Building

1. All equipment operational as intended, under control, installed per Manufacturer's recommendations.
2. All construction completed, finished and in new condition.
3. All deficiencies addressed to the satisfaction of the A/E and Owner.
 - a. Return Punch List with each completed item initialed by the Contractor representative who has inspected the corrective work.

1.3. COORDINATE FINAL CODE INSPECTIONS

- A. Work with governing authorities for occupancy inspection.
 - 1. Municipality
 - 2. Regional Superintendent of Schools (school project).
 - 3. IDPH for plumbing and any other IDPH permitted work.
 - 4. A/E for called inspection when applicable.
 - 5. Fire Marshall, local / state for:
 - a. Elevator, if applicable
 - b. Sprinklers, if applicable.
 - c. Fire alarm, if applicable.
 - d. Walk-through
 - e. Boilers

1.4. WARRANTIES

- A. Extended warranties beyond the one (1) year 100% labor and material overall warranty shall be provided showing:
 - 1. Terms and dates
 - 2. Contact information
 - 3. Installing Contractor
 - 4. Exact system / material as applicable.
- B. Extended warranties
 - 1. As listed in various Specification Sections.
 - 2. As advertised by Manufacturers.
 - 3. As required for:
 - a. Roof assembly NDL 25 years alternate 30 years
 - b. Metal work finish 20 years
 - c. Sheet metal and roofing work contractor two year
 - 4. Items requiring chronic repair during the warranty period shall have an extended 12-month warranty until repairs are not needed over a 12-month period.

1.5. PROJECT RECORD DOCUMENTS

- A. Submit Project Record Documents to reasonably provide information on:
 - 1. Hidden utilities
 - 2. Products used.
 - 3. Any hidden from view structural or mechanical or electrical variations from plans.
 - 4. Notation of alternates where same impacted the Base Bid Drawings.

- B. Provide listing:
 - 1. Contractor / Subcontractor / Vendor list with:
 - a. Product or service.
 - b. Contact information.

1.6. FINAL PAY APPLICATION

- A. Final Lien Waivers – Major Subcontracts and direct Suppliers.
- B. Final Affidavit showing \$0.00 due to all vendors.
- C. Letter from Bond holder approving closeout payment.
- D. Final paperwork on allowances, adds or deductions agreed upon by Change Order.
- E. Final acceptance as applicable.

END 01 7800

DIVISION 2 – EXISTING CONDITIONS
Section 02 4116 - Minor Demolition for Remodeling

1. GENERAL

1.1. BASE BID

A. Contractor:

1. Remove and dispose of existing in required to make way for additions and rehab work set forth by the Drawings.
2. Provide and institute cautionary removal measures to allow continuing Owner occupancy/arrange schedule with building supervisor.
3. Remove and dispose of rubbish and debris resulting from demolition operations. Do not use Owner's refuse containers.
4. See Drawings for areas to be cleared of walls, floors, room finishes, furnishings, etc.
5. Remove and dispose of abandoned electrical components, conduits and circuitry in the course of executing the electrical work.
6. Disconnect, remove, extend electrical services as required.
7. Remove and reset existing components as shown on the drawings: Wherein not specifically shown on the drawings the details shown shall govern as typical solutions subject to the approval of the Architect.
8. Remove all debris from the construction site.

B. Inspection of existing surfaces:

1. Resulting existing surfaces following demolition shall be inspected for structural integrity and suitability for application of new work.
2. Repair and replace existing construction damaged by demolition and rework.
3. Notify the Architect of discovered previously concealed damage uncovered by demolition and removals for recommended action.
 - a. Concealed work
 - b. Discovered deterioration or deficiency condition

1.2. RELATED WORK

A. Specified elsewhere

1. 01 10 00 - Summary of Work
2. DIVISION 06 – WOOD
3. DIVISION 07 - THERMAL & MOISTURE PROTECTION

1.3. SUBMITTALS

- A. Submit demolition and removal procedures and schedule in accord with 01 3300.

- B. Maintain environmental security of the building envelope at all times.

1.4. EXISTING CONDITIONS

- A. Conduct all demolition work in such a manner to minimize interference with Owner operations and inconvenience with adjacent building areas regarding Owner, pedestrian and vehicular traffic. Maintain protected access and egress at all times.
- B. Provide, erect, and maintain temporary barriers and security devices in accord with Division 00 and 01.

2. PRODUCTS

2.1. MATERIALS

- A. Products and materials for minor demolition work are limited to removal, repair and replacement of existing work damaged by demolition operations.
- B. All work damaged during operations shall be repaired or replaced with new materials of the same quality as the existing materials and installation when they were new.

3. EXECUTION

3.1. PREPARATION

- A. Erect and maintain weatherproof and security closures for exterior openings in accord with Division 00 and 01 and as needed to protect the work.
- B. Protect existing items not indicated to be demolished.

3.2. PERFORMANCE OF THE WORK

- A. Demolish and remove in an orderly and careful manner. Protect existing supporting structural members, traffic areas and project access.
- B. Immediately remove demolished and waste materials from site.
- C. Remove materials to be reinstalled or retained in manner to prevent damage. Store, deliver, relocate and protect in accord with Sections 01 3516. See this Section, Paragraph 2.1 "PRODUCTS".
- D. Remove and promptly dispose of contaminate, vermin infested, rotted or dangerous materials encountered.
- E. Do not burn or bury materials on site.
- F. Remove demolished materials from site daily, as work progresses. Upon completion of work, leave areas in clean condition.

- G. Do not remove materials by open gravity drop. All materials above ground level to be disposed of shall be handled via closed chutes with materials water sprayed to prevent dust.

END 02 4116

DIVISION 06 – WOOD PLASTICS AND COMPOSITES

Section 06 1000 – Rough Carpentry

1. GENERAL

1.1. REQUIREMENTS INCLUDE

- A. The Contractor shall provide rough carpentry (white wood) as shown on the Drawings and specified herein, including but not necessarily limited to:
 - 1. Treated lumber is not specified or required unless required by Roof System Manufacturer.
 - a. If the roofing manufacturer requires treated lumber, or particular fasters or types of carpentry materials, they shall be provided per manufacturer instructions.
 - b. No extra cost will be considered for work required to achieve membrane manufacturer's warranty standards.
 - 2. Framing, blocking, furring and cant extensions.

1.2. RELATED WORK

- A. Specified elsewhere
 - 1. Means and methods, AIA A201 General Conditions and Supplementary General Conditions.

1.3. PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Immediately upon delivery to site, place materials in area protected from weather.
- B. Store materials a minimum of 6 in. (150 mm) above ground on framework or blocking and cover with protective waterproof covering, providing adequate air circulation or ventilation.
 - 1. Do not install wet materials
- C. Seasoned materials shall not be stored in wet or damp areas.

2. PRODUCTS

2.1. MATERIALS

- A. Lumber
 - 1. Dimensions
 - a. Specified lumber dimensions are nominal: verify actual field conditions and field verify dimensions and provide materials required to accomplish the intent of the details shown.

- 1) Rip or adjust sizes as needed to accomplish detail results.
- b. Lumber dimensions conform to industry standards established by the American Lumber Standards Committee and the rule writing agencies.
2. Moisture content: Nineteen percent (19%) maximum at time of permanent close in of building or structure, for lumber 2" or less nominal thickness.
3. Surfacing: surface four sides (S4S), unless otherwise shown, or specified.
4. General framing lumber: Nominal 2" (51 mm) to 4" (102 mm) thick X 2" (51 mm) to 12" (306 mm) wide/deep:
 - a. Any commercial softwood species, stud/standard grade unless otherwise noted or specified.
 - b. Free of unruly warp or wind, bark, splits or major defects affecting the strength or stability of the board or ability to maintain line and level.
5. Structural Framing lumber: Nominal 2" (51 mm) to 4" (102 mm) thick X 2" (51 mm) to 12" (306 mm) wide/deep:
 - a. Yellow Pine, Douglas Fir, Hemlock or other approved species, grade stamped.
 - b. Not less than Construction grade for bearing stud walls and plates, unless noted otherwise.
 - c. Not less than #1 and better for horizontal framing, unless noted otherwise
 - d. Not less than Select Structural for horizontal free span framing where span to nominal depth ratio exceeds:
 - 1) Roof joists – 25/Roof Beams – 15
 - 2) Ceiling rafters - 20
 - 3) Floor joists – 18/Floor Beams – 12
 - 4) LVL and Glue Lam type products may be considered if appearance is not an issue.
6. Boards: 1 in. (25 mm) to 2 in. (51 mm) thick; any commercial softwood species, unless otherwise shown or specified. Furring and grounds shall be minimum No. 1 Common Grade.
- B. Plywood: CDX exposure rated and clearly stamped on material, thicknesses and listed on Drawings.
 1. 5 ply minimum.

C. Rough Hardware:

1. Any hardware used in treated lumber or plywood shall be stainless steel or finish rated for treated lumber use.
2. Any fasteners used in exposed to weather applications shall be stainless steel, or other corrosion finished appropriate for the application, zinc plated is not a weathering corrosion finish.
3. Drawings may detail framing plates, and accessories:
 - a. TECO, Simpson, Phoenix or similar, galvanized minimum.
 - b. Details may use catalog numbers for one of the above, to establish shape, gage and load applications, but similar shapes by all may be used.
4. Bolts: FS FF-B-575C
5. Nuts: FS FF-N-836C
6. Expansion Shields: FS FF-B-561C (limited use, see Drawings)
7. Lag Screws and Bolts: FS FF-B-561C
8. Toggle Bolts: FS FF-B-588C
9. Wood Screws: FS FF-S-111C
10. Nails and Staples: FS FF-N-105B
11. FABCO/H-3, or equal, Stainless Steel Top Seal Fasteners
12. Top Seals/H-3 Stainless Steel, Carbon Steel and Cadmium plated as applicable with Weath-R-Seal washers
13. Tuff Tites #305 Stainless Steel and Cadmium plated as applicable.
14. Top Seal/H-3 stainless steel, cadmium plated and carbon steel (as applicable) structural screws.
15. RED HEAD, Fastenal, Hilti or approved equal, structural rated stud anchors
 - a. Wedge type, double wedge when noted
 - b. Epoxy
 - c. Drive in type

2.2. QUALITY ASSURANCE

A. Grading Rules:

1. Lumber grading rules and wood species shall conform with Voluntary Product Standard PS 20-75.
2. Grading rules of the following associations shall also apply to materials produced under their supervision:
 - a. Northeastern Lumber Manufacturer's Association, Inc. (NELMA).
 - b. Southern Pine Inspection Bureau (SPIB).
 - c. West Coast Lumber Inspection Bureau (WCLIB).
 - d. Western Wood Products Association (WWPA).
 - e. Redwood Inspection Service (RIS).

3. Plywood shall conform to the following:
 - a. Softwood Plywood - Construction and Industrial: Product Standard PS 1-74.
 - b. Hardwood Plywood: Product Standard PS 51-71.
- B. Identify all lumber and plywood by official grade marks.
 1. Lumber: Grade stamp to contain symbol of grading agency, mill number or name, grade of lumber, species or species grouping or combination designation, rules under which graded, where applicable, and condition of seasoning at time of manufacture.
 - a. S-GRN: Unseasoned.
 - b. S-Dry: Maximum nineteen percent (19%) moisture content.
 - c. MC-15 or KD: Maximum fifteen percent (15%) moisture content.
 - d. Dense.
 2. Softwood Plywood: Appropriate grade trademark of American Plywood Association.
 - a. Type, grade, class and identification index.
 - b. Inspection and testing agency mark.
- C. Requirements of Regulatory Agencies:
 1. Preservative Treated Lumber and Plywood: American Wood Preservers Bureau, Quality Mark.

3. EXECUTION

3.1. PREPARATION

- A. Examine receiving surfaces and verify that no rot or detrimental condition such as poor anchorage exists.
 1. Application or installation of materials constitutes acceptance of existing application conditions.
- B. Verify all dimensions of in place and subsequent construction.
 1. Adjust framing or additional framing as needed to accomplish the intent of the work and as needed to complete the work properly.
- C. See Drawing Details.

3.2. INSTALLATION

- A. Frame wood members to be close fit, set accurately to required lines and levels and secured rigidly in place in accordance with the Drawings.

1. In continuous runs, stagger members of such as multiple member plates or curbs.
2. Anchor all members typical to industry standards as a minimum.
 - a. As detailed
 - b. Sill plates not more than 48" anchor spacing, ½" bolts nor 12" from plate ends.
 - c. Roof edge curbs, not less than 60 pounds per lineal foot pull off resistance any direction.
3. Cut and fit framing, blocking etc. to accommodate the other work, other trades and MEP work.
4. Interlock plate and curbing corners.

B. Roof Framing

1. Provide dimensioned wood for all framing, blocking, furring, nailing strips built into, or adjacent to, exterior masonry walls, wood in contact with concrete and wood in conjunction with roofing.
2. In reroof applications, existing perimeter blocking may remain in the final assembly.
 - a. Should same, or segments of same, be discovered to have deteriorated or have loose anchorage then said segments shall be replaced of material as specified herein above and by properly secured in place by the Contractor as a part of the Base Bid.
 - b. Additional materials only will be reimbursed.
3. Demolition of existing assemblies may be listed in Drawings to accommodate new detailing or conditions.

END 06 1000

DIVISION 07 – THERMAL & MOISTURE PROTECTION

07 2200 – Roof & Deck Insulation

1. GENERAL

1.1. REQUIREMENTS INLCUDE

- A. The Contractor shall provide insulation as shown on the Drawing and as specified herein, associated with the reroof work and work other than reroof respectively. Refer to Drawings as to intent. Poly-isocyanurate attachment methods and taper requirements are listed on Drawing Sheets and herein.
 - 1. Coordinate with solid blocking for perimeter
 - 2. Verify existing deck depth and rib spacing for flute infill insulation.
 - 3. Class A over noncombustible decks
 - 4. Synthetic scrim Polyisocyanurate insulation, roofing manufacturer branded or approved in writing.
 - 5. Synthetic scrim faced High Density 'HD' polyisocyanurate cover board.

- B. Meet or exceed 90 mph wind speed warranty.
 - 1. Contractor to verify pullout testing for compliance with manufacturer requirements.
 - a. System may be foam down or mechanical attached.
 - b. Verify with your manufacturer for his instructions.
 - 2. Install new insulation systems of same manufacturer of the membrane system.

- C. See Roofing specification for insulation details.

END 07 2200

DIVISION 07 – THERMAL & MOISTURE PROTECTION
Section 07 5323 - EPDM Roofing

1. GENERAL

1.1. DESCRIPTION

A. Bid Packages

1. **Base bid for Prairie Central High School**, Fairbury, IL is the tear off and re-roofing of the 1972 low roof addition
 - a. **Alternate #1 HS bid** is for the District office and fitness wing at the north end of the Prairie Central High School
2. **Base bid for the Prairie Central Primary West School**, Chenoa, IL is the interior low roof area.
 - a. **Alternate #1PCW** is for the north intermediate level roof over classroom wing, full width of the facility.
3. A single bid form is provided for bidding each project and associated alternate with a place to combine the base bids.

1.2. PROJECT REQUIREMENTS INCLUDE

- A. The Contractor shall provide single ply, minimum 60 mil EPDM synthetic rubber roof assembly. Full system to deck tear off and replacement.
1. Means and Methods, Safety procedures and material handling and staging are contractor's responsibility.
 2. These specifications and the details establish minimum requirements. If additional provisions are necessary by the various manufacturers to meet their warranty or wind assembly requirements, those shall be included without additional cost.
 - a. Contractor is responsible to visit the site and determine all the conditions of the reroof and how those are to be accommodated by the selected manufacturer's details for warranty compliance.
 - b. If additional materials beyond that specified/detailed as are needed to meet system requirements of a particular manufacturer shall be included in the base price.
 - c. Documents are prepared to depict an intent, and minimum standard but may or may not include all provisions of a specific manufacturer.
 3. Night cut off shall always assume a storm may occur.
 - a. If a storm does occur, always roll back night cut off and inspect for water damage
 - b. Never continue roofing with entrapped moisture.

4. Adhered assembly, no ballast, 90 MPH sustained wind rating, 90 MPH gusts, exposure C
 - a. Exception: Pavers over protection mat may be employed in corners and perimeters to meet this specification
 - i. Do not cover seams.
 - b. See plans for generic descriptions of systems in the various locations of the roofs.

5. Assemblies to be Class A rated over noncombustible deck in all cases, including membrane and insulation systems.

- a. **High School base bid roof**

- i. Full tear off to deck except small area noted on plan at south end. (E) Metal Deck, 1 ½" type A gauge not known, estimate 22 gauge steel.
 - ii. Install new blocking as needed.
 - iii. Mechanical Anchor first layer of 2½" Polyisocyanurate insulation. Always offset ends of boards preferred ½ length as well as offset from layer to layer preferred 4" or greater.
 - iv. Foam down 1/8" taper polyisocyanurate insulation starting at ½". See plan for proposed taper. More efficient taper layouts may be employed as developed in conjunction with the membrane manufacturer layout of the roof system.
 - v. Foam down ½' high density HD Polyisocyanurate board.
 - vi. Sump out for roof drains.
 - vii. See drawings for special condition at the north end of the roof area where inadequate height for flashing occurs.
 - viii. Install adhered 60 mil EPDM roof system, 3" or 4" seam lap tape as required by manufacturer, then apply 5" or 6" cover tape over seam to create double seaming system.
 - ix. Complete all base flashings, cap flashings, terminations, metal work associated.

- b. **High School Alternate #1HS**

- i. Full tear off down to deck, reasonable clean off parapets and equipment bases suitable for adhering new roof system:
 1. Original deck appears to be concrete at all three test cuts.
 2. Includes the existing foam roof and the original built up roof and the associated flashings and insulation down to suitable

- original deck
3. Includes scraping and cleaning off associated vertical surfaces, parapets etc. covered with the foam system.
 - ii. Install new wood blocking
 - iii. Foam down the base insulation 2" fiberglass scrim faced polyisocyanurate insulation.
 - iv. Foam down 1/8" taper fiberglass scrim faced polyisocyanurate insulation starting at 1/2". See plan for proposed taper. More efficient taper layouts may be employed as developed in conjunction with the membrane manufacturer layout of the roof system.
 - v. Foam down 1/2' high density fiberglass scrim faced HD Polyisocyanurate fiberglass board.
 - vi. Sump out for scuppers as needed to meet elevations.
 - vii. Install adhered 60 mil EPDM roof system, 3" or 4" seam lap tape as required by manufacturer, then apply 5" or 6" cover tape over seam to create double seaming system.
 - viii. Complete all base flashings, cap flashings, terminations, metal work associated.

c. Prairie Central Primary West Base Bid

- i. Remove the ballast, base flashings, wall flashings, terminations, rubber membrane and the 1/2 cover board, leave the polyisocyanurate insulation in place including the taper system.
- ii. Install new wood blocking as needed.
- iii. Overlay with 1 1/2" (2" if required by the roofing warranty) fiberglass scrim faced polyisocyanurate board and mechanically attach to metal decking.
- iv. Install new wood blocking
- v. Overlay with foam down 1/2" high density fiberglass scrim faced polyisocyanurate faced board.
- vi. Sump out for drains and or scuppers as needed to meet elevations.
- vii. Install adhered 60 mil EPDM roof system, 3" or 4" seam lap tape as required by manufacturer, then apply 5" or 6" cover tape over seam to create double seaming system.
- viii. Complete all base flashings, cap flashings, terminations, metal work associated.

d. Prairie Central Primary West Alternate #1PCW

- i. Remove the ballast, base flashings, wall flashings, terminations, rubber membrane and all insulation down to the tectum decking
- ii. Install new wood blocking as needed

- iii. Foam down the base insulation 2" fiberglass scrim faced polyisocyanurate insulation.
 - iv. Foam down 1/8" taper fiberglass scrim faced polyisocyanurate insulation starting at 1/2". See plan for proposed taper. More efficient taper layouts may be employed as developed in conjunction with the membrane manufacturer layout of the roof system.
 - v. Foam down 1/2' high density fiberglass scrim faced HD Polyisocyanurate fiberglass board.
 - vi. Sump out for drains and scuppers as needed to meet elevations.
 - vii. Install adhered 60 mil EPDM roof system, 3" or 4" seam lap tape as required by manufacturer, then apply 5" or 6" cover tape over seam to create double seaming system.
 - viii. Complete all base flashings, cap flashings, terminations, metal work associated.
- e. In all cases, the new insulation system(s) shall be compatible with and included in the manufacturer's NDL warranty.
- i. Insulation systems as specified are intended to be completed with roof membrane manufacturer branded products or with materials specifically approved by the membrane manufacturer for this assembly.
 - 1. All areas to include tapered insulation, see plans.
 - 2. Poly Isocyanurate synthetic scrim faced products nominal R 6 per inch.
 - 3. Adhesion to the deck is included in the warranty, mechanically attach if necessary, but foam down is preferred.
 - 4. Structural failure of the decking system beyond adhesion is not included in the warranty, such as delamination within the decking, cracking or separation from the form board.
 - 5. The warranty is intended to include the newly installed assembly, but does not include deck failure due to natural or applied causes.
- f. Inspect surfaces, promptly report any problems or deck deterioration that is to extensive to roof over.
- g. Remove any existing flashings down to substrate
6. Detailing shown is the minimum standard for the design contract. Always verify detailing with manufacturer for warranty requirements and add or modify with A/E review all details accordingly.

- a. Metal flashings detailed are typically manufactured system compatible with the roof assembly warranty. Metal Era systems are noted to describe the design intent but any manufacturer's comparable system approved by the roof membrane assembly warranty may be employed.

7. As work proceeds

- a. Provide appropriate tie in, cut off and flashings and repairs to keep tie in water tight and serviceable during successive work days during installation.
 - i. Always assume it may rain before work resumes.
- b. Provide certification of proper detailing and assembly for warranty approval.

B. WARRANTY (NDL)

- 1. Roofing Systems shall be warranted, No Dollar Limit (NDL) for twenty five (25) years total system.
 - a. Including perimeter flashings and insulation systems
 - b. Only new materials are included in the warranty.
 - c. See also alternates and Bid form for extended warranty options.
 - i. Twenty-five (25) year NDL system warranty
 - ii. Prices for the extended warranties are not required to bid the work but bidder should be aware the alternates may become the determining factor in the Owner award process.
 - iii. Extended warranties and /or wind warranties may require components not detailed for some manufacturer systems, such as HD Poly Iso cover Board, Gypsum cover board or other provisions. Those are all to be included in the proposed pricing.
 - iv. Such provisions DO NOT decrease the base insulation systems noted on the drawings, and may require blocking and face fascia dimension adjustments to accommodate. Please include such adjustment in the proposal price.
 - d. Warranty provisions intent is to be in accordance with the industry standards as established in a Carlisle Gold Seal NDL Warranty or a Firestone Red Shield NDL Warranty

- C. Provide new materials as shown on the detail drawing sheets, specified and necessary to complete the work and meet warranty requirements.

- a. All new materials to be membrane manufacturer branded or approved branded in writing, warranty compliant.
 - i. Insulation
 - ii. Adhesives and foam down products.
 - iii. Accessories, termination bars, reinforced perimeter anchor strips, etc.
 - iv. Tapes and sealants and associated primers or prep washes.
 - v. Preformed corners
 - vi. Cover tapes
 - vii. Fasteners
 - viii. Flashings
 - ix. Perimeter metal flashings approved source and design.
 - x. All other components of the assembly.

D. Accommodate mechanical equipment and obstructions.

- 1. Inspect conditions, drawings endeavor to indicate vents, equipment and curb considerations but field inspection prior to bidding is the contractor responsibility to accommodate all roof associated penetrations, mounted equipment, and obstructions.
- 2. Contractor shall:
 - a. Inspect the roof and roof mounted equipment and determine the accommodation needed to properly install and flash a new roof.
 - i. Modify curbs, vents, accessories for 8" minimum flashing line above roof.
 - a) Flashing shall be lapped under equipment self flashing curbs, or be sealed and bar anchored or banded as appropriate.
 - b) Provide new flue flashing collars as needed, flue extensions where required.
 - c) Where (E) flue is noted to be removed remove completely inside and outside and apply a sheet metal patch to the roof prior to installing the new roof.
 - d) No exception
 - e) Where equipment is not movable, provide a sealed enclosure at the highest possible point.
 - ii. Extend vents at least 8" above roof
 - iii. Some equipment when removed may need curb extension for 8" minimum above roof.
 - iv. Provide all necessary accommodation, electrical and mechanical modifications in comparable materials

1.3. RELATED REQUIREMENTS

A. Specified elsewhere:

1. 01 0100 - Summary of Work
2. 02 4000 - Minor Demolition for Remodeling
3. 06 1000 - Rough Carpentry
4. 07 2200 - Insulation
5. 07 6200 - Sheet Metal Flashing & Trim

1.4. ASSOCIATED MECHANICAL AND ELECTRICAL WORK

A. Remove and reinstall fans, flues or other rooftop equipment as needed to install new roofing, insulation system and flashings.

B. Extend vents where needed.

C. Prep roof drains and reinstall as appropriate.

1. Provide replacement drain baskets wear damaged or over coated with old foam insulation

1.5. DEFINITION ROOFING SYSTEM MANUFACTURER. Any of the manufacturers whose systems are specified under "Acceptable Systems" in this Section, and herein called "Manufacturer".

1.6. QUALITY ASSURANCE

A. Qualifications

1. Installers shall be experienced craftsmen, skilled in the installation of the specified products set forth in these and related documents.
2. Contractor shall:
 - a. Have a minimum of five (5) years experience as certified applicator for this or for like roofing systems specified in this document and shall be certified by the Product Manufacturer whose product is to be installed.
 - b. Be certified by the State of Illinois in accord with the Illinois Roofing Industry Licensing Act, as amended. (225 ILCS 335/) Illinois Roofing Industry Licensing Act.

B. Requirements of regulatory agencies

1. Permits: Contractor shall provide and pay for all applicable permits.
 - a. Basic permit from Regional Office of Education will be secured by the Owner.
 - b. City permit is not required.
 - c. Any other permits required such as for hauling the old

ballast, dumping etc. shall be secured by the Contractor.

2. Tests or standards by independent agencies whose classifications and requirements have general acceptance as regulatory:
 - a. American Society for Testing and Materials (ASTM).
 - b. Factory Mutual Laboratories (FM).
 - c. National Fire Protection Association (NFPA).
 - d. Underwriter's Laboratories, Inc. (UL).
 - e. International Building Code IBC 2009

C. Source Quality Control - The Roofing System Manufacturer shall assume full responsibility for certifying that:

1. Prior to the start of work and material acquisition, the Contractor shall coordinate with the manufacturer to assure that the manufacturer has reviewed the project and applications:
 - a. They have examined project drawings, specifications and warranty requirements.
 - i. Provide detail adjustments where required for warranty.
 - ii. Allow for additional detail requirements for warranty by their selected manufacturer.
 - b. Their products herein specified are acceptable for and compatible with the roofing and flashing system design.
 - c. If their system is used, they certify that all products delivered to the site will meet or exceed project specification requirements, and are fully compatible in the assembly.
 - d. They will issue the specified warranty for the new roofing system assembly.

D. Referenced catalogs: The catalogs, current as of date of bidding documents, of the manufacturers specified are incorporated herein by reference.

1.7. SUBMITTALS. Make all submittal in accordance with 01 3300.

A. Roofing firm endorsements: At least fifteen (15) business days prior to starting the work submit roofing firm's name, address, telephone number and Manufacturer's endorsement of roofing firm to Architect/Engineer.

1. The Manufacturer's endorsement must indicate that the roofing firm is a qualified installer of the products proposed.
2. Manufacturer representative contact information.

B. Shop drawings

1. Submit shop and detail drawings of approved applicable conditions

per Roofing Membrane and System Manufacturer for review.

- a. Details on the drawings shall be a considered a minimum standard, but do not necessarily comply with all manufacturers requirements.
 - b. Submit drawing with the Manufacturer's fastener spacing for mechanically attached first insulation layer into existing metal roof system. (90 mph wind rated system)
 - i. Field, corner and edge layouts to be provided.
 - c. Adjust details where more stringent warranty requirements apply at no additional cost to the contract for manufacturer required detail modifications.
2. Minimum scale: 1-½" = 1'-0" for details, 1" = 20' for plan layout except where otherwise specified.
 3. Submittal shall incorporate the Architect/Engineer prepared documents, that is, Drawings and these Specifications, wherein said documents exceed the Manufacturer's minimum recommendations.
 4. Include wherein applicable:
 - a. Resilient flashing, cap and counter flashing details.
 - b. Gutters/scuppers/perimeter curb related sheet metal.
 - c. Drains.
 - d. Fasteners.
 - e. Expansion and control joints.
 - f. Mechanical/electrical equipment curbs.
 - g. Copings.
 - h. Flashing of extended roof curbs as needed to hold 12".
 - i. Flashing of through roof pipes and columns where applicable.
 5. Provide certified pull out test verification if required for warranty
- C. Product data
1. Insulation.
 2. Joint seal or tape. (Self-adhering battens, etc.)
 3. Manufacturer's specification and instruction manual for all components of roofing system.
- D. Provide catalog cut sheets for all items and Samples required **ONLY** when/if requested after review of submittal information sheets.
1. Fabricated metal flashing end caps, miters and flashing lap systems and covers: one (1) assembled sample each configuration.

1.8. PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver all materials in Manufacturer's original, unopened containers and rolls with all labels intact and legible.
- B. Deliver materials requiring fire resistance classification packaged with labels attached as required by labeling service.
- C. Deliver materials in sufficient time and quantity to allow continuity of work and compliance with approved construction schedule.
- D. Carefully inspect the existing roofing system which appears to be rather light construction and store materials only over beam lines not anywhere on field of roof. Avoid accumulating much material in one area or beam span.
- E. Handle rolled goods in manner to prevent damages to edges or ends.
- F. Store all materials on clean raised platforms with weather protective covering when stored outdoors.
- G. Store rolled goods in accordance with Manufacturer's instructions.
- H. Provide continuous protection of materials against damage or deterioration.
- I. Remove damaged or defective materials from site.
- J. Comply with fire and safety regulations.
- K. Follow Manufacturer recommendations as minimum except where contract documents exceed Manufacturer recommendations. Where Contract Documents are in excess of the Manufacturer recommendations, the contract documents supersede.
- L. Protect installed material from traffic damage by covering all roof traffic by 3/4" thick plywood or OSB sheathing in adjacent 4' X 8' sheets loose laid employing care not to damage roofing materials. Keep the area under the traffic board free of all objects.
 - 1. Provide puncture protection mat under plywood and six inches (6") beyond plywood all around.
 - 2. Remove mat at conclusion of work.

1.9. JOB CONDITIONS

- A. Contractor to avoid concentrated material loads. **DISTRIBUTE LOADS AND ALWAYS ACROSS JOISTS -- NEVER PARALLEL WITH SUB-FRAMING MEMBERS.**
 - 1. Max. load 35 lbs. per sq. ft. over large areas, 300 pound local point loads over 2 sq ft.

2. Always verify local conditions and observe any reasonable precautions that conditions present.
- B. Environmental requirements: Except as otherwise authorized by Architect/Engineer, follow Manufacturer's written request for variance:
1. Apply roofing in dry weather.
 2. Apply roofing only when dry substrata and substructures prevail.
 3. Provide all required removal work in a dust free manner.
 4. Provide watertight cut-off tie in at the end of each work day.
- C. PROTECTION
1. AVOID HEAVY TRAFFIC ON COMPLETED WORK.
 - a. Establish protected traffic corridors for moving equipment where appropriate.
 2. Restore to original condition or replace all work or materials damaged by roofing operations whether a part of the work of this Contract or adjacent thereto.
 3. Protect paving and building surface(s) adjacent to hoists and other roofing equipment.
 4. Remove protection upon completion of roofing work.
 5. Protect existing roofs on this building that are not included in this work, from all damage.
- D. Sequencing and scheduling prior to commencement of work.
1. Contractor: Provide detailed schedule of all roofing operations.
 2. Designate an on site foreman in charge of operations.
 - a. Provide experience record for the roofing foreman upon request by the Architect/Engineer.
 - b. The Contractor's Roofing Foreman shall be subject to the approval of the Architect/Engineer on behalf of the Owner. Said approval shall be based upon previous experience record.
 - c. The Contractor's on site foremen shall be the Contractor's assigned Safety Manager for the project unless the Contractor makes a specific assignment in writing otherwise.
 - d. The assigned foreman in charge of site operations and safety shall be on the job at all times during construction.
 3. The Roofing Contractor's Project Manager and On Site Foreman shall assign and coordinate all operations of the Roofing Contractor, his Subcontractors and his Suppliers for the work in the Contract Documents. Always coordinate with the Owner

2. PRODUCTS

2.1. MATERIALS. For the entire system, use materials either manufactured by or certified as compatible by one of the acceptable system manufacturers. EPDM shall be 60-mil thickness.

2.2. Roofing Membrane System

A. Rubber Membrane .060" / 60 mil minimum, reinforced or unreinforced EPDM rubber system, Class C rated.

1. Approved Manufacturers

- a. Firestone Rubbergard FR by Firestone Building Products, Co., Carmel, IN
- b. Carlisle SynTec Systems, Carlisle, PA
- c. Versigard by Versico Roofing Systems, Carlisle PA

2. Associated and accessory items, including but not limited to:

- a. Adhesives, including one part, contact type and two part foam type
- b. Seam tapes, double sided and cover type.
- c. Fasteners
- d. Prep materials such as primers, splash wash and cleaners
- e. Sealants such as joint seals, night cut off, term bar cut off
- f. Termination (Term Bars) bars
- g. Preformed corners, boots, lap tapes, formable uncured tapes.
- h. Cover tape
- i. Coatings
- j. Reinforced edge strip (RUSS) or (RS), reinforced EPDM perimeter and edge anchor strips
- k. Insulation, transitional tapers, tapered insulation system.
- l. Walk pads

B. Insulation –

1 Poly-isocyanurate Insulation scrim faced with fiberglass or other synthetic facer sheet.

1. Federal specification HH-I-1972/Gen, HH-I-1972/2, ASTM C-1289-02
2. Factory Mutual Class 1 per FM 4450.
3. Conditioned 'R' value 5.88 minimum per inch per ASTM C 518 Test methods and PIMA Conditioning Procedure 101 or RICTIMA Bulletin 281-1.
4. Fire exposure: UL 790 external risks, UL 120, UL123 for internal risks for roof deck application only.
5. 2015 IBC 2603.2, 2603.3 and 2603.4 exceptions included.
6. Thickness as required to meet drawing intent, including board insulation, 1 ½" or thicker, taper systems 1/8" and 1/16th"

7. Special insulation, provide transition taper strips to adjacent blocking and or insulation edges, may be wood fiber, Poly Iso, or other suitable taper material.

3. EXECUTION

3.1. NIGHT CUT OFF

- A. Provide tie-off per EPDM Manufacturer's recommendations between new/old roof or deck system each day, watertight and wind resistant.
 1. Assume rain and wind may occur at end of work cut off prior to resumption of work
 2. Cut back cut for proper extensions of each days' work. Inspect resulting surface following tear-off for structural condition.

3.2. BLOCKING AND ANCHORAGE. Where Drawings Sectional Details do not account for surface of the insulation and surface of the wood blocking lying in same plane and wherein same is a Manufacturer's requirement, the Contractor shall so provide by tapering wood blocking so the concealed base EPDM anchor shall be screwed into the wood blocking as detailed. This requirement applies to perimeters, curbs, parapets, equipment rails, saddles and crickets as shown on the drawings specifically or reasonably inferred by similarity.

- A. It is intended blocking be secured to substantial construction such as roof girts, framing and perimeter channel.
- B. Where same is not available but blocking required, it shall be anchored to the decking not less than 6" spacing and the decking checked and additional anchors into sub framing at the nearest locations when appropriate to assure the edge has 60 lb per foot resistance to pull off.

3.3. INSPECTION

- A. Verify that all work of other Subcontractors that penetrates roof deck or requires men and equipment to traverse roof deck has been completed. Protect all reroof work from traffic damage.
- B. Examine all surfaces for inadequate anchorage, foreign material, moisture, unevenness or other conditions that would prevent execution and quality of installation of specified roofing and flashing system and accessory items.
- C. Do not issue a "Proceed Order" to the Subcontractor or proceed with work until all defects are corrected to the satisfaction of and with the written approval of the roof system manufacturer.

3.4. PREPARATION. Thoroughly clean all surfaces against or into which work will be installed. Ensure that all surfaces are clean and dry before starting and during performance of work. Follow roofing system manufacturer's recommendations.

3.5. INSTALLATION

- A. Existing Deck
 - 1. Existing is gypsum deck on form board.
 - a. Remove ballast, protection sheets as occur, membrane and existing insulation
- B. Assembly 72 MPH constant, 90 MPH gust
 - 1. Provide perimeter blocking and closure assembly as needed.
 - a. Anchor to sub framing or to decking as noted for 60 lb. per foot pull off rating
 - b. When anchored only to decking provide additional anchors deck to sub frame nearest adjacent sub member, #14 self drilling screws as needed.
 - 2. Inspect surface for damaged decking or undesirable conditions of large enough extent to compromise mechanical attachment.
 - 3. Install insulation systems as appropriate
 - a. **Multiple layers required with offset joints**, synthetic scrim faced Poly Iso board foam down connection. Mechanical fastener connection allowed where deck is in poor condition.
 - b. 1/2 "HD polyisocyanurate layer or Dens Deck if required for warranty foam down
 - c. Roof membrane to be adhered by contact adhesive.
 - 1) Seams lapped and sealed with double adhesive script material.
 - 2) All lap seams to receive additional 6" cover tape**
 - 3) Finish all corners and flashings per manufacturer instruction.
 - 4. Metal work, flashings and terminations.
 - a. Membrane manufacturer approved assemblies for inclusion in warranty
 - 5. Avoid wrinkles.
 - 6. Avoid bubbles.
 - 7. Install without stretching or applying undo stress.
 - 8. Handle carefully to minimize patching.
 - 9. Keep seam adhesives in proper alignment to avoid seam sealant over adhesive.
 - 10. Carefully apply contact adhesive in a thin uniform manner.

1.2. ADJUST & CLEAN

- A. Carefully inspect all completed work. Correct all defects.
- B. CLEAN UP SPILL, DEBRIS AND REMOVE SURPLUS MATERIALS AT THE END OF EACH DAY.
- C. Provide adequate protection of completed work until substantial completion. Prevent traffic, storage of materials or equipment on completed roofing. Finally, remove 3/4" thick X 4' wide plywood from traffic lanes over complete membrane installation.
- D. Prevent storage of materials or equipment on the completed roof.
- E. Finally clean up all rubbish, debris, surplus materials, tools and equipment and remove from the site.
- F. Provide manufacturer inspection and warranty paper work.
- G. Install accessories such as ladders and walk pads.

END 07 5323

DIVISION 07 – THERMAL & MOISTURE PROTECTION
Section 07 6200 – Sheet Metal, Gutters Flashing & Trim

1. GENERAL

1.1. REQUIREMENTS INCLUDE

Contractor shall provide metal flashing inclusive of trim, associated with the reroof work as shown on the Drawings and specified herein. Aluminum, galvanized or stainless steel, in gauge as noted on

- A. Perimeter and roof edge systems, wall caps, gutters are intended to be manufactured and labeled for use with the membrane manufacturers system and warranty.
 - 1. Such as Metal Era
 - 2. Or manufacturer branded systems Carlisle, Firestone etc.
- B. Kynar 500 or equal fluorocarbon finish when exposed to view unless noted on drawings or detail specific.
- C. Contractor shall verify on site flashing and trim dimensions to accomplish the design intent of the drawing details.
 - 1. There is a schedule that describes the manufactured accessories and metals and also the shop formed accessories.

1.2. RELATED WORK

- A. Specified elsewhere
 - 1. 06 1000 - Rough Carpentry
 - 2. 07 5323 - EPDM Elastomeric Membrane Roofing

1.3. QUALITY ASSURANCE

- A. Sheet metal flashing and trim shall conform with the following:
 - 1. Specified requirements of the manufacturer of the metal.
 - 2. Recommended practices contained in:
 - a. "Aluminum Construction", from the Aluminum Association, 750 Third Avenue, New York, NY 10017, latest edition.
 - b. Architectural Sheet Metal Manual, SMACNA, Inc, www.smacna.org
 - c. Aluminum

1.4. REFERENCE STANDARDS

- A. Aluminum - ASTM B209-79, Alloy 3003-H14
 - 1. Fluorocarbon finish 20 year guarantee on all perimeter and parapet cap metal.

- a. Counterflashings and flashings on interior of rood to be mill finish aluminum.
 - b. 0.040 minimum unless noted otherwise.
 - B. Stainless Steel - ASTM A617-77, Type 304 or other approved 300 series alloys:
 - 1. 2D finish, dull, cold-rolled, annealed.
 - 2. See Drawings for location, configuration and thickness.
 - C. Sheet steel - ASTM A446 zinc coated (hot dip galvanized)
 - 1. Box annealed steel
 - 2. Zinc coating, G-90 (1.25 oz.).
 - 3. See drawing for thickness.
 - 4. Top coating in accord with AAMA 621-96 Standards.
- 1.5. SUBMITTALS. Make all submittals in accord with Section 01 3300. Submittals are not typically returnable.
 - A. Product data:
 - 1. Manufacturer's Literature: Materials description and current printed installation instructions for manufactured items.
 - 2. Shop Drawings: Typical details of fabricated and formed configurations.
 - B. Samples:
 - 1. Aluminum: One (1) "assembly ready" piece of each configuration.
 - 2. Stainless Steel: One (1) "assembly ready" piece of each configuration.
 - 3. Pre-finished, galvanized steel: One (1) "assembly ready" piece of each configuration.
 - 4. Fabrication Samples:
 - a. Provide one (1) assembled sample of splice covers, and caps, inside and outside mitered cap corners.
 - b. Provide one (1) sample of soldered or welded corner flashing as set forth in the Drawings.
- 1.6. DELIVERY, STORAGE & HANDLING
 - A. Deliver products to site in accordance with Division instructions. Store all products in a manner to prevent damage, in a secure place, out of way of construction operations. Provide protection until ready for use.
 - B. Handle in accord with manufacturer's recommendations.

1.7. WARRANTY.

- A. The Contractor shall warrant metal flashing and trim to be free of faults and defects for two (2) years from date of Substantial Completion.
- B. The NDL roofing warranty shall include the manufactured fascia, flashings, caps and accessories.
 - 1. Shop fabricated custom work is exempt and will fall under the contractor warranty, such as wall counterflashings and flashings being reused as noted in details.
- C. Manufacturer shall warrant "Kynar 500" finish surfaces for 20 years.

2. PRODUCTS

2.1. MANUFACTURED MATERIALS

- A. It is the intent the manufactured assemblies are compatible with and include in the roof system warranty. Shop fabricated assemblies are allowed.
- B. Gutters *none on this project, reuse existing.*
 - 1. Metal Era IGG-2 C9 0.050" aluminum 6" minimum or as detailed, color to be selected, or approved equal
 - 2. Snap in heavy duty hanger
 - 3. Splice and end caps as appropriate
 - 4. Expansion joints as recommended by manufacturer approximately every 50'All accessories as recommended by the manufacturer for the 90 mph rating.
 - 5. If coordinated below, can use the optional gutter flange in lieu of the roof edge specified below 2.2/A.
- C. Downspouts scuppers and drop boxes.
 - 1. Dark bronze, 0.040" Kynar aluminum finish
 - 2. Scuppers and scupper boxes to be 0.050" aluminum, UNO.

Roof edges and fascia,

- 1. See details for manufactured 0.040 mill unless noted otherwise.
 - a. Metal Era descriptions are noted, but may be equivalent membrane manufacturers as approved vendor
- 2. See drawings for face dimensions required in various locations
 - a. Always field verify
- 3. Always verify installation condition prior to ordering face dimension to determine proper fit or need for extensions.
- 4. Snap on or field crimp attached to water dam assembly, anchor to 120 mph rated system

5. Provide accessories, corners, blind splices sealants fasteners clips etc.as needed to finish the work.

2.2. SHOP BRAKE MATERIALS

1. As needed to complete the work, mill finish aluminum
- B. Miscellaneous, as need to properly complete the work.
1. Continuous clips
 2. Spacers
 3. Closures
 4. Trim

2.3. MATERIALS

- A. Aluminum: Comply with reference standards.
1. H-24 temper where required for spring action. See details on the Drawings.
 2. See drawings for metal thickness, 0.032" minimum to 0.060" maximum.
- B. Stainless Steel: Comply with reference standards.
- C. Galvanized steel - comply with reference standards.
- D. Finishes - see Drawings.
1. Aluminum:
 - a. Mill finish when concealed.
 - b. All exposed to view, mill finish.
 2. Stainless Steel: Dull finish.
 3. Paint Lock: Paintable finish.
- E. Screws, Bolts and Nuts: Stainless steel with seal head washers where exposed to weather.
- F. Pop rivets must be aluminum for aluminum base metal. In all other locations, pop rivets to be stainless steel.
- G. Washers
1. Same alloy as screw or bolt minimum .04 in. thick.
 2. Material same as adjacent screw head.
 3. All exposed washers shall be seal type: See Paragraph H, herefollowing.
- H. Reinforced Membrane Insulator: Apply as an isolator between dissimilar

metals.

- I. Resilient Washers: Neoprene, minimum .062 in. thick. Must be factory adhered to washers (Item 2.1.E).
- J. Exposed galvanized steel: Shall be hot dip galvanized on box annealed steel. (H.D.G.)

3. EXECUTION

3.1. INSPECTION

- A. Thoroughly inspect all existing construction and the conditions under which the work will be performed. Report to the Architect/ Engineer IN WRITING all conditions that would adversely affect installation of the work.
- B. Start of work constitutes acceptance of the construction and conditions.

3.2. FABRICATION

- A. Metals: Comply with Drawing reference.
 - 1. It is the intent that any fascia boards new or existing be wrapped in aluminum prior to the roof edge system installation.
- B. Verify dimensions at site prior to shop production fabrications.
- C. Form, fabricate and assemble all work in the shop to extent feasible and, if necessary, mark to ensure proper installation at the project site. Disassemble only to the extent necessary for shipment. ASSEMBLY MARKS SHALL BE APPLIED TO BLIND SIDE of the finished installation.
 - 1. Always Hem exposed to view edges.
- D. Use the proper thickness of metal, adequate stiffeners, supports and proven details of assembly so that the finished product will conform to the highest standards of the industry. All clips shown on the Drawing are to be continuous.
- E. Fabricate items with the minimum number of joints, using concealed fasteners wherever possible. Lap or lock joints but do not rivet or otherwise restrict relative movement of sections. SEE DETAIL NOTES FOR EXPANSION PROVISIONS.
- F. Limit all segments to ten feet in length. Allow for minimum ½" expansion per segment length, unless otherwise specified. Miter and lap two inches (2") min. and seal, or weld all internal or exterior corners and end caps.
- G. See the Drawings flashing details and configuration. Running flashing and trim metal splices shall be separated ½" for expansion and covered with 5" wide cap or be blind splice. Splice to be set in double bead of sealant.

Anchor screws shall pass in the 1/2" no-contact expansions space. Lock splice caps in place securely.

- H. All open ends of running flashing or counter flashing shall be neatly closed by fabrication of end cap running two inches (2") back under the running flashing, sealant with sealant and appropriately mechanically secured in place. Flashing shall extend four inches (4") beyond perpendicular membrane and/or counter flashing.
- I. Should cap lengths require more screws than shown on the Drawing to hold the splice cap close to the flashing, the same shall be furnished and installed by the Contractor in a uniform pattern throughout the job.

3.3. INSTALLATION

- A. Examine all surfaces to receive the metal flashing and trim.
 - 1. Verify all dimensions of existing and subsequent constructions.
 - 2. Installation of metal flashing and trim shall constitute acceptance of existing conditions.
 - 3. Coordinate work with Plumbing and Electrical Work.
- B. Erect all the members plumb, level and in line securely anchored and properly related to other parts of the work.
- C. Protect metal surfaces that are to be in contact with dissimilar metals.
- D. All holes in sheet metal flashing anchored by screws exposed to temperature change and which is applied in segments in excess of 4'0" lengths shall be 3/16" diameter over size to accommodate expansion and contraction.
- E. Anchor holes in material segments shall commence and end on maximum of three inches (3") from the ends of the segment.

3.4. MECHANICAL FASTENERS - ACCESSORIES

- A. Stainless Steel Screw Manufacturers
 - 1. Fastenal Co., 2001 Theurer Blvd., Winona, MN 55987
 - 2. Dynamic Fastener Services, P.O. Box 231, 13902 Century Lane, Grandview, MO 64030.
 - 3. Guardian Fastener & Closure Systems, Telephone 800-633-GFCS.
 - 4. Sierra Fasteners, Inc., 1710 East Guthrie, Unit C, Des Moines, IA 50316.
 - 5. Fabco Fastening Systems, Townsend Div. of Textreon, Inc., West Newton, PA 15089.
 - 6. All screws shall be of alloy which will field test zero magnetic attraction.
 - 7. Install sealant in joint to be secured by screws prior to tightening.

- B. See Section 07 5323 for seal head screws.
- C. Pop rivets
 - 1. Install sealant in lap joints to be secured by pop rivets prior to installing rivets.
 - 2. Lap joints to be pop riveted shall not be visible where possible.

3.5. ADJUST & CLEAN

- A. Upon completion of installations, carefully examine all work to confirm installation compliance and adequacy and correct all defective work.
- B. Clean up all rubbish, debris, surplus materials, packaging and tools and dispose of same off site in accordance with Federal, State and local regulations.

END 07 6200

1.1. WORK INCLUDED

A. Base Bid and alternates all roofs

1. Remove existing roof ventilators and fabricate closer to roof over.
2. Coordinate fan, vent and louvers removals and reset as needed to raise curbs or flash.
3. Make adjustments to remove/replace or and flash flues as needed to complete the work.
4. All work to premium commercial standards

B. **At PCHS Base bid, specific work needed.**

1. **See notes on drawing sheet ME-1**

- a. for replacing 4 ton air conditioning into existing fan coil unit
 - 1) this unit will be relocated from the Base bid roof area up onto a new curb and support base on the adjacent gym roof and near the areas served.
 - 2) Sizing information on drawings
- b. for modifying exterior rain tight louvers. This will include duct adaptation to new size as needed for airtight function, and perimeter seal to prevent leaking.
 - 1) Two (2) existing 16" x 16" replace with 16" wide by 12" vertical aluminum louver dark bronze color, Metal Aire OAL-2F or similar
 - 2) One (1) existing 24" x 40" replace with 24" wide by 36" vertical aluminum louver dark bronze color, Metal Aire OAL-2F or similar
 - 3) Always field verify conditions and dimensions of field conditions and coordinate with the roofer on flashing height prior to ordering

C. **At PCHS Alternate bid #1HS**

1. **See notes on drawing sheet ME-1**

- a. for disconnecting existing R-22-ton air conditioning compressor condenser, raise up onto new curb, reinstall, evacuate and recharge and verify proper operation.

D. **At Primary West Base Bid**

1. **See Notes on Sheet R-1 roof plan**

- a. Disconnect two (2) existing R-22-ton air conditioning compressor condenser, raise up onto new curb, reinstall, evacuate and recharge and verify proper operation.

E. At Primary West Alternate #1PCW

1. See Notes on Sheet R-1 roof plan

- a. Disconnect two (2) existing R-22-ton air conditioning compressor condenser, raise up onto new curb, reinstall, evacuate and recharge and verify proper operation.

END 23 0500

1. GENERAL

1.1. WORK INCLUDED

- A. The General Requirements as specified in DIVISION 00 and DIVISION 01 preceding this section shall form a part of the Work Specifications.
 - 1. Comply with 2017 NEC.
 - 2. See Prairie Central High School Base Bid project includes relocating/replacing a 4 ton AC compressor condenser to a new location.
 - 3. All other roof areas include fans and other equipment that may need minor work to disconnect, raise up or otherwise coordinate with the roofer operations

- B. The Drawings and Specifications are mutually complementary and the work shown or called for in either shall be performed or provided as though it were set forth on both. In case of conflict between the Drawings and Specifications, either one or both shall govern. The final decision shall be as directed by the Architect/Engineer.

- C. Provide incidental electrical work as required and designated on the accompanying drawings and associated specifications.
 - 1. **High School Base Bid:**
 - a. High School Base Bid relocate AC unit as noted on plans
 - b. Fans and fan bases, remove raise as needed for raised base and reinstall fans, all roofs.

 - 2. **High School District office Alternate #1HS**
 - a. Disconnect then reconnect AC to place on new curb.
 - b. Fans and fan bases, remove raise as needed for raised base and reinstall fans, all roofs

 - 3. **Primary West Base Bid**
 - 4.
 - a. Disconnect then reconnect two (2) AC to place on new curb.
 - b. Fans and fan bases, remove raise as needed for raised base and reinstall fans, all roofs.

 - 5. **Primary West Alternate #1PCW**
 - a. Disconnect then reconnect two (2) AC to place on new curb.
 - b. Fans and fan bases, remove raise as needed for raised base and reinstall fans, all roofs

2. PRODUCTS

2.1. FIXTURES

- A. No new scheduled

2.2. CONDUITS AND RACEWAYS

- A. All conduit shall be rigid, IMC or EMT, threaded or compression set fittings.
 - 1. Exterior conduit to be aluminum compression or threaded fittings.
 - a. Exception, exterior conduit properly supported against sagging and deformation may be PVC up to 1"
 - b. May be PVC up to 2" sizes only with A/E approval
 - c. Above 2" to be aluminum, rigid threaded exterior.
 - 2. Interior and embedded conduit to be galvanized.
 - 3. Minimum size per NEC, 3/4" minimum.

2.3. FITTINGS, BOXES, ETC.

- A. All junction boxes, pull boxes, fixture outlet boxes, switch boxes, fittings, fasteners, etc. for metallic conduits shall be equal to Arrow-Hart, Appleton, or Raco and shall meet all requirements of Underwriter's Laboratories, Inc. and/or of the National Electric Code. The location of all boxes shall be approved by the Architect/Engineer and no other boxes will be permitted without the Architect/Engineer's approval.
 - 1. Exterior boxes to be rain tight.

2.4. HANGERS AND SUPPORTS FOR CONDUITS

- A. All hangers and supports for metallic conduit shall be galvanized steel.

2.5. CABLE AND WIRE

- A. All wire shall comply with the latest specifications of the National Board of Fire Underwriters, as manufactured by General Electric, Crescent, General Cable, or approved equal and conform to the following, unless noted otherwise on the Plans:
 - 1. Conductors shall be copper (cu)
 - 2. All wire shall be installed in conduit as herein specified.
 - 3. All the wire shall have Type THW, THWN, and/or XHHW 600 volt insulation unless specified elsewhere or shown on Drawings for specific locations.
 - 4. All wire shall be not less than #12 AWG, excepting less than 25 volt low voltage control wiring which may be #18 AWG minimum size.

2.6. WARRANTY

- A. The Contractor shall warranty the newly completed electrical systems, the wiring, and equipment to be free from inherent mechanical and electrical defects for a period of one (1) year from the date of the completed and certified test or from the date of first beneficial use.

3. EXECUTION

3.1. INSTALLATION

- A. Follow good quality commercial practice.
- B. Provide and install work in accordance with the plans and specifications, all applicable codes and the manufacturer's recommendations. All wiring shall be installed in strict compliance with all the provisions of NEC.
- C. Installation of equipment and devices that pertain to other work in the contract shall be closely coordinated with the appropriate subcontractors.
- D. The Contractor shall clean all dirt and debris from the inside and outside of the panels, after completion of installation.

3.2. METHODS OF WIRING

- A. All conduits shall run to cabinets and terminal boxes in a neat, accurate manner, shall be concealed in walls where hereinbefore specified or surface mounted and exposed, and shall run parallel to walls.
- B. INCONSISTENT ROUTING OF THE CONDUITS SHALL NOT BE APPROVED.
- C. Where conduits are exposed, they shall be parallel to walls and ceilings and shall be rigidly and permanently supported.
- D. Conduits shall be swabbed to removed all moisture and grit before any wires are pulled.
- E. THE USE OF SOAP OR COMPOUND ON WIRE OR CABLE FOR PULLING SHALL NOT BE PERMITTED.
- F. Alarm systems, emergency lights and exit lights shall not be run in conduit servicing general lighting, power or switch legs.

END 26 0500

